2022 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

ALABAMA POWER COMPANY
PLANT GASTON
ASH POND

July 31, 2022

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering

CERTIFICATION STATEMENT

This 2022 *Semi-Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Gaston Ash Pond* has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D), ADEM Admin. Code r. 335-13-15, and Part E of ADEM Administrative Order No. 18-095-GW, under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.

7/31/2022

Gregory B. Dyer, PG — Date

AL Registered Professional Geologist No. 1471

1/31/2022

Gregory Whetstone, PE — Date

AL Registered Professional Engineer No. 27885

EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2022 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual assessment groundwater monitoring activities at the Plant Gaston Ash Pond and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for Plant Gaston Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event, and assessment monitoring was initiated in January 2018. Statistically significant levels (SSL) of Appendix IV parameters above groundwater protection standards (GWPS) were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019, and completed on June 12, 2019, according to the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No.18-095-GW. The ACM was subsequently submitted to ADEM and posted to the Site's CCR compliance website. A public meeting to discuss the ACM was held on July 6, 2020.

Since the submittal of the ACM, extensive Site investigations have been performed to select effective corrective measures to address SSLs above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-095-GW and submitted to ADEM on November 30, 2021. Subsequently, within 90 days of remedy selection a Corrective Action Groundwater Monitoring Program document presenting the groundwater corrective action remedies to be implemented was submitted on February 28, 2022.

SSLs of Appendix IV parameters arsenic, lithium, and molybdenum were detected above GWPS during the first semi-annual monitoring event of 2022. The following summarizes activities for 2022 groundwater monitoring at the Site:

- Submitted 2021 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2022.
- Submitted the Corrective Action Groundwater Monitoring Program document on February 28, 2022.

- Completed the first semi-annual assessment groundwater monitoring event between April 18, 2022, and May 5, 2022.

The CCR unit concluded the monitoring period in corrective action and APC has begun implementing the selected groundwater remedies identified in the Groundwater Remedy Selection Report submitted to ADEM in November 2021 and as detailed in the Corrective Action Groundwater Monitoring Program document. The following monitoring-related activities are planned for the CCR unit:

- Continue with phase 1 implementation of the Permeation Grouting Pilot Program for the remediation of arsenic, lithium, and molybdenum.
- Installation of near real-time instrumentation for the monitoring of potential changes in field parameter data in response to ash pond closure activities (August-September 2022).
- Evaluation of recently collected MNA parameter data.
- Conduct the second semi-annual assessment monitoring event in October 2022 and submit the semi-annual groundwater monitoring report summarizing the findings to ADEM by January 31, 2023.

An **Executive Summary Table** highlighting program status and significant findings from the most recent annual monitoring period has been included on the next page.

Executive Summary Table.
Monitoring Period Summary
Plant Gaston - Ash Pond

Assessment Monitoring Initiated: July 16, 2019
Monitoring Period: January 1 - July 31, 2022
Beginning Status: Corrective Action
Ending Status: Corrective Action

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22
Calcium	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22
Chloride	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22
Fluoride	None
pH	GN-AP-MW-16, GN-AP-MW-17
Sulfate	GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22
TDS	GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22

Appendix IV SSLs

Parameter	Wells
Lithium	GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18,and GN-AP-MW-20
Molybdenum	GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, and GN-AP-MW-20
Combined Radium 226 + 228	None

* See the attached report for further details regarding statistical exceedances and alternate source demonstrations.

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: January 13, 2019
Date Complete: June 12, 2019
Public Meeting Date: July 6, 2020

Groundwater Remedy

Selected During Period: Yes
Selection Date: November 30, 2021
Initiated During Period: Yes
Ongoing During Period: Yes

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

ABBREVATIONS

ACM	Assessment of Corrective Measures
ADEM	Alabama Department of Environmental Management
AL	Alabama
APC	Alabama Power Company
APCEL	APC Environmental Laboratory
ASD	Alternate Source Demonstration
ASTM	Alabama Power Company Environmental Laboratory
BGS	below ground surface
CCR	Coal Combustion Residual
CEC	cation exchange capacity
CFR	Code of Federal Regulations
COC	chain of custody
COI	constituents of interest
CSM	conceptual Site model
DO	dissolved oxygen
EPA	United States Environmental Protection Agency
ft	feet
GW	groundwater
GWPS	Groundwater Protection Standard(s)
LCL	Lower Confidence Limit(s)
m	meter
mg/L	milligram per liter
MNA	monitored natural attenuation
MSL	mean sea level
MW-	denotes “Monitoring Well”
NCDS	National Coal Data System
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
pCi/L	picocuries per liter
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PQL	practical quantitation limit
PVC	polymerizing vinyl chloride
QA/QC	quality assurance/quality control
RL	reporting limit
RPD	relative percent difference
SEM	scanning electron microscopy
SM	Standard Method(s)
SSE	selective sequential extraction
SSI	statistically significant increase
SSL	statistically significant level

TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	Unites States Geological Survey
UTLs	Upper Tolerance Limits

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2022 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual assessment groundwater monitoring activities at the Plant Gaston Ash Pond (Ash Pond) and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). Semi-annual assessment monitoring and associated reporting for the Ash Pond is performed in accordance with the monitoring requirements 40 CFR § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

Semi-Annual Groundwater Monitoring and Corrective Action Reports include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and corrective action activities completed since the submittal of the Corrective Action Groundwater Monitoring Program (February 28, 2022).

2.0 MONITORING PROGRAM STATUS

The Site is currently in assessment monitoring and eimplementing the selected groundwater remedies identified in the Groundwater Remedy Selection Report. In accordance with CFR § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Ash Pond during sampling events conducted in 2019. Pursuant to § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4(i), APC completed an ACM in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-095-GW.

An Alternate Source Demonstration (ASD) for combined radium 226+228 was submitted as an appendix in the 2018 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2019. ADEM responded on November 14, 2019, indicating ADEM was in concurrence that the radium could be naturally occurring, but requested additional data or documentation to definitively determine the source of the radium. A further study on the source of the radium at the Ash Pond was initiated in July 2020. An amended Alternate Source Demonstration with data showing a natural source for combined radium 226 + 228 in groundwater at the Site was completed. The completed ASD was submitted along with the 2020 Annual Groundwater Monitoring Report. This ASD documented an alternative source for combined radium 226 +228 exceedances and was approved by ADEM in a correspondence letter dated June 30, 2021.

A Groundwater Remedy Selection Report was prepared and submitted on November 30, 2021, to meet the requirements of 40 CFR § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of ADEM Administrative Order AO 18-095-GW. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on February 28, 2022.

In accordance with § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6), APC will continue semi-annual assessment monitoring, including all monitoring wells in the certified groundwater monitoring system and any well installed to characterize the horizontal and vertical extent of SSLs.

3.0 SITE LOCATION AND DESCRIPTION

APC's E.C. Gaston Steam Plant (Plant Gaston) is in Shelby County, Alabama. The physical address is 31972 Alabama Highway 25, Wilsonville, AL 35186. Plant Gaston lies in Section 1, Township 21 South, Range 1 East, Sections 5 and 6, Township 21 South, Range 2 East, and Sections 31 and 32, Township 20 South, Range 2 East data are based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983).

The Ash Pond is located south-southwest of the main plant along the Coosa River. **Figure 1**, **Site Location Map**, depicts the location of the Plant and Ash Pond with respect to the surrounding area.

3.1 PHYSICAL SETTING

Plant Gaston's topography is characterized by a flat valley adjacent to the Coosa River. Elevations typically range from 400 to 600 feet above mean sea level (MSL) in the Coosa Valley district of the Valley and Ridge physiographic province. The Coosa Valley extends approximately 20 miles (Sapp and Emplaincourt, 1975). Local topography is characterized by moderate relief with elevations ranging from approximately 395 MSL along the eastern plant boundary to approximately 530 feet MSL at a hilltop in the southwestern portion of the plant. **Figure 2**, **Site Topographic Map**, provides the topography of the Site.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

Plant Gaston is located in the Coosa Valley district of the Valley and Ridge Physiographic Province of central Alabama. The geologic units on the property have been folded and faulted at various intervals, and several faults consisting of low-to-high angle thrust faults and some normal faults are present. Fault sets trend obliquely to one another in the northeastern portion of the plant, resulting in a series of imbricate thrust slices of Fort Payne chert, Parkwood and Floyd shales, and Newla limestone (Frings, 1980).

The plant is on a portion of the Valley and Ridge province known as the Coosa deformed belt, which is a long, sinuous, structurally complex zone that can be subdivided laterally into three segments by two lateral offsets. (GSA, 2010b) The Coosa deformed belt is situated on the Yellowleaf thrust sheet, which is a shallowly detached structural complex with small-scale, commonly isoclinal parasitic folding (McIntyre, *et al.*, 2010). Two lateral offsets subdivide the belt, the Harpersville offset and the Reeds Mill offset. The Harpersville offset is located on the southwest end of the Coosa deformed belt and lies just northeast of the plant.

The boundaries of the Coosa deformed belt are delineated by the Coosa synclinorium to the north and the Pell City thrust fault to the south. Most structures in the belt trend northeast-southwest, although a northwest-southeast trend is encountered in the plant area. Imbricate thrust slices of sedimentary Paleozoic rocks comprise the geological material of the belt (Frings, 1981). The area is underlain by a structurally complex Paleozoic sequence of sedimentary rocks that range from Cambrian to Mississippian in age. Carbonate rocks comprise the bulk of the Cambrian and Ordovician rocks, and cherty limestone, sandstone, and shale comprise the Mississippian-age units. Also present in some portions of the plant is a thin unit of Devonian-age sandstone or shale.

Near the Ash Pond, the shallow subsurface bedrock geology is composed entirely of dolomites of the Knox Group. Boring logs from various on-Site investigations indicate that the Ash Pond is underlain by 11 to 63-foot-thick layer of residual clay, mainly formed by the in-situ weathering of the underlying Cambrian-Ordovician-age Knox dolomite. The actual thickness of the natural overburden may be lower than 63 feet, since fill and embankment material were used around the periphery of the Ash Pond. At the Site, the Knox dolomite is characterized as a light to medium gray, fine-grained dolostone with bedded chert.

Evidence of faulting was not observed in core samples and no faults have been mapped underneath the Ash Pond. A small splay thrust fault has been mapped in the area (Szabo, 1969, Frings, 1981). This splay fault has been interpreted to cross the river near the location of the coal pile and trends to the northwest approximately 500 to 1,500 feet to the north of the Ash Pond. Locally, this splay fault marks the transition from the older Knox dolomite to the Pennsylvanian-aged Parkwood Formation.

Figure 3, **Site Geologic Map**, illustrates the surface geology at the Site and neighboring areas. **Figure 4A Geologic Cross-Section A-A'**, **Figure 4B Geologic Cross-Section B-B'**, **and Figure 4C Geologic Cross-Section C-C'**, provide an illustration of well screen intervals with respect to stratigraphy and elevation at the Site

3.2.1 Uppermost Aquifer

The Valley and Ridge aquifer system, found in the Coosa, Cahaba, Birmingham-Big Canoe, and Murphrees Valleys, includes the Weisner Formation, Shady Dolomite, Conasauga Formation, Copper Ridge and Chepultepec Dolomites, and the Longview, Newala, Lenoir, and Little Oak Limestones. In some areas, the Knox Group includes Copper Ridge, Chepultepec, Longview, and Newala united as one group. This aquifer system includes the Ketona, Brierfield, and Bibb Dolomites in Shelby County. Other rock units of Cambrian to Devonian age are included within the Valley and Ridge aquifer system, due to the fact they do

not form effective barriers to ground water movement among permeable units of the system. However, these other units are not significant sources of ground water (Kopaska-Merkel *et al.*, 2005).

At the Site, the uppermost aquifer consists of Knox dolomite. Wells were generally screened in fractured or weathered intervals of Knox dolomite, where permeability is enhanced. Depths to these intervals are highly variable at the Site and range from 35 to nearly 125 feet below ground surface (BGS) excluding delineation wells.

3.2.2 Flow Interpretation

The local groundwater flow pattern at the Site is generally towards the north-northwest, west, north-northeast, and east. A topographic high directly to the south of the pond forms a localized groundwater divide and provides space for upgradient locations. Groundwater flow in these areas is towards the Plant Gaston rim ditch located along the boundary of the Ash Pond. Groundwater flow at the Site is accomplished via fractured flow and other secondary discontinuities within the rock fabric such as weathered zones and bedding planes.

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Gaston has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The certified groundwater monitoring system for the Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. Wells were located to serve as upgradient, lateral and downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. All groundwater monitoring wells were designed and constructed using "Design and Installation of Groundwater Monitoring Wells in Aquifers," ASTM Subcommittee D18.21, as a guideline.

3.3.1 Monitoring Wells

The detection and compliance groundwater monitoring network consists of 20 monitoring wells installed around the perimeter of the Ash Pond and 5 additional upgradient wells installed on the adjacent side of the Coosa River east-southeast of the Ash Pond. Horizontal and vertical delineation wells were added in three phases of delineation beginning in late 2018. Monitoring and delineation well locations are presented in **Figure 5, Monitoring Well Location Map**.

3.3.1.1 Upgradient Wells

Data used to establish background water quality or selection of upgradient wells include (1) review of groundwater elevation data and potentiometric surface contour maps to determine groundwater flow direction and (2) a screening of Appendix III CCR indicator parameters for apparently elevated concentrations of indicator parameters. In 2019, Ash Pond closure activities necessitated the abandonment of GN-AP-MW-2 located southwest of the Ash Pond. If an upgradient well is abandoned due to pond closure activities or by an unforeseen circumstance, the historical data from that well will remain in the upgradient data pool and therefore, the well remains part of the upgradient network by legacy. Data collected from GN-AP-MW-2 will continue to be used for statistical analysis for the Site. Monitoring well location GN-AP-MW-3 will serve as upgradient background monitoring location for the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the Site.

A plan for the installation of additional upgradient well locations was submitted to ADEM for review on November 20, 2020 and approved on January 8, 2021. These upgradient wells were installed east-southeast of the Ash Pond in February 2021. Suitability of these well locations as viable background or upgradient have been evaluated as described in the Site Groundwater Monitoring Plan (April 2020, August 2020) and are included as upgradient locations in the most recent statistical analyses report.

These locations have been evaluated as viable upgradient wells following a third round of analytical data gathered in April 2022. Wells GN-AP-MW-38 though GN-AP-MW-42 are suitable as upgradient wells because:

(1) The wells are located on the opposite side of the river which forms hydraulic divide or barrier to groundwater flow from the north.
(2) The wells were installated in similar carbonate dominated lithology.
(3) Low concentrations of Appendix III parameters confirm that the locations have not been impacted by the Ash Pond.

Upgradient wells were generally installed across middle sections of the Knox Dolomite. The lone exception is upgradient well location, GN-AP-MW-39, which is interpreted to be installed across a structural contact and the metasedimentary Wash Creek Slate unit. **Table 1a, Compliance Monitoring Well Network Details** summarizes well construction details for upgradient monitoring well locations. A summary of key Appendix III concentrations observed in these locations follows this paragraph.

LOCATION	Analyte	Times Sampled	Min	Max	Average	Units	Non-Detect Results	JFlagged Results
GN-AP-MW-42	Boron	3	0.1015	0.1015	0.1015	mg/L	3	0
	Sulfate	3	2.25	4.92	3.48	mg/L	0	0
	Chloride	3	3.8	4.18	3.99	mg/L	0	0
	pH_Field	3	6.07	6.31	6.17	SU	0	0
	Calcium	3	11	15.4	12.7	mg/L	0	0
GN-AP-MW-40	Boron	3	0.0342	0.1015	0.079	mg/L	2	1
	Chloride	3	2.03	4.13	2.78	mg/L	0	0
	Sulfate	3	0.934	7.23	3.16	mg/L	0	1
	pH_Field	3	7.12	7.77	7.52	SU	0	0
	Calcium	3	21.6	22.9	22.03	mg/L	0	0
GN-AP-MW-41	Boron	3	0.1015	0.1015	0.1015	mg/L	3	0
	Sulfate	3	1.37	2.99	1.93	mg/L	0	1
	Chloride	3	2.71	3.05	2.85	mg/L	0	0
	pH_Field	3	6.8	7.3	7.09	SU	0	0
	Calcium	3	26.6	31.7	29.2	mg/L	0	0
GN-AP-MW-38	Boron	3	0.1015	0.1015	0.1015	mg/L	3	0
	Chloride	3	5.24	6.09	5.74	mg/L	0	0
	Sulfate	3	2.72	12.6	6.94	mg/L	0	0
	pH_Field	3	7.85	7.99	7.92	SU	0	0
	Calcium	3	22.3	23.3	22.9	mg/L	0	0
GN-AP-MW-39	Boron	3	0.1015	0.1015	0.1015	mg/L	3	0
	Chloride	3	2.22	2.94	2.69	mg/L	0	0
	pH_Field	3	6.85	7.3	7.08	SU	0	0
	Sulfate	3	11.4	14.6	13.5	mg/L	0	0
	Calcium	3	35	36.4	35.8	mg/L	0	0

3.3.1.2 Downgradient Wells

Monitoring well locations GN-AP-MW-4 through GN-AP-MW-22 are used as downgradient locations for the Ash Pond. Downgradient locations are located west, north, and east of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the Site. Downgradient wells were installed across upper and middle sections of the Knox Dolomite. Individual screened horizons were selected based upon water availability, groundwater recharge rates, and or guided by surficial geophysical methods to target potential preferential flow paths. **Table 1a** summarizes well construction details for downgradient monitoring well locations.

3.3.1.3 Delineation Wells

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-095-GW, additional monitoring wells were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. Delineation occurred in three distinct phases beginning in December 2018 and ending in March 2020. Delineation wells were installed across upper, middle, and lower Knox intervals to assess potential impacts. **Table 1b, Delineation Well Network Details** summarizes well construction details for delineation wells installed since December 2018. Additionally, delineation wells are identified on **Figure 5** with distinct symbology to represent horizontal or vertical delineation. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

3.3.1.4 Monitoring Well Replacement and Abandonment

During the monitoring period,, no monitoring well replacement or abandonment activities occurred. **Table 1c, Abandoned Well Network Details** provides a list of monitoring wells previously abandoned and summarizes their historical well construction details and design purpose.

3.4 GROUNDWATER MONITORING HISTORY

In accordance with § 257.94(b) and ADEM Admin. Code r. 335-13-15-.06(5)(b), eight independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV prior to October 17, 2017. Background groundwater samples were collected over the period of March 2016 to June 2017. Semi-annual groundwater monitoring was initiated at the Ash Pond in August 2017.

Based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, Alabama Power initiated an assessment monitoring program on January 15, 2018. Pursuant to 40 CFR § 257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a), monitoring wells were sampled for all Appendix IV parameters in January 2018, within 90 days of initiating the assessment monitoring program.

Statistical evaluations of 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS, and the Site entered Assessment of Corrective Measures. Pursuant to 40 CFR §257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-095-GW, additional monitoring wells (**Table 1b, Figure 5**) were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring in two phases of groundwater investigations between

December 2018 and June 2020. These wells, along with the compliance monitoring well network, are sampled semi-annually.

Delineation wells installed at the Site have been sampled concurrently with the compliance monitoring well network beginning with the first semi-annual sampling event in February 2020. However, occasionally, additional data collection has occurred independent of routine compliance sampling events to support continuing assessment activities at the Site (e.g., Phase III delineation sampling).

3.4.1 Available Monitoring Data

Laboratory analytical data is available for the groundwater monitoring history outlined in **Section 3.4.** Tabulated results for Appendix III and Appendix IV constituents by monitoring well are included in **Appendix A, Tabulated Historical Analytical Data**.

3.4.2 Historical Groundwater Flow

Historical groundwater elevations and potentiometric surface maps show that groundwater flow patterns are consistent across monitoring events and as described in **Section 3.2.2**. As Ash Pond closure activities progress over the years and upon completion of closure, groundwater elevations will likely display variability representative of changing Site hydrodynamics and eventually, a new set of equilibrium conditions. As this timeline progresses, groundwater elevations and trends will be qualitatively reviewed against this historical data set.

Tables summarizing groundwater elevations from all groundwater monitoring events are included in **Appendix B, Historical Groundwater Elevations Summary**.

3.4.3 Monitoring Variances

The groundwater monitoring program at the Site is operating under a Variance granted by ADEM on April 15, 2019, to conform State monitoring requirements under the CCR rule to Federal requirements. The variance:

1. Retains boron as an Appendix III detection monitoring parameter and excludes it as an Appendix IV assessment monitoring parameter.

2. Authorizes the use of Federally-published GWPS of 0.006 milligrams per liter (mg/L) for cobalt, 0.015 mg/L for lead, 0.040 mg/L for lithium, and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.

3.5 GROUNDWATER SAMPLING AND ANALYSIS

Site compliance wells are sampled semi-annually between: (1) late winter – mid spring and (2) early to late fall. The temporal spacing between sampling events is sufficient to ensure that sampling events yield independent groundwater samples and generally, represent different climatic or meteorological seasons which often foster a degree of natural variability in groundwater quality.

During routine semi-annual monitoring events, all compliance and delineation network wells are sampled and analyzed for Appendix III and Appendix IV constituents. Additional general chemistry constituents (major ions and anions) are now being collected routinely as well. These non-compliance parameters will be periodically analyzed to explore seasonal or closure-related changes to geochemical facies in Site groundwater.

The following subsections summarize the sequential steps and process for the sampling, handling/transport, and analysis of compliance-related groundwater samples at the Site.

3.5.1 Groundwater Sample Collection

Prior to recording water levels and collecting samples, each well was opened and allowed to equilibrate to atmospheric pressure. Within a 24-hour period, depths to groundwater were measured to the nearest 0.01 foot with an electronic water level indicator with depth referenced from the top of the inner PVC well casing. Groundwater elevations were calculated by subtracting the depth to groundwater from surveyed top-of-casing (TOC) elevations.

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with §257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). All monitoring wells at Plant Gaston are equipped with a dedicated pump. Monitoring wells were purged and sampled using low-flow sampling procedures. In this procedure, field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) are measured to determine stabilization and groundwater samples are collected when the following stabilization criteria are met:

- 0.2 standard units for pH.

- 5% for specific conductance.
- 0.2 Mg/L or 10% for DO > 0.5 mg/l (whichever is greater).
- Turbidity measurements less than 5 NTU.
- Temperature and ORP – record only, no stabilization criteria.

During purging and sampling, an AquaTroll instrument was used to monitor and record field parameters. Once stabilization was achieved, samples were collected and submitted to the laboratory following standard chain-of-custody (COC) protocol. Field data recorded in support of groundwater sampling activities for the monitoring event is included in **Appendix C, Laboratory and Field Records**.

3.5.2 Sample Preservation and Handling

Groundwater samples were collected within the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory. Where temperature control was required, samples were placed in an ice-packed cooler and cooled to less than 6 °C immediately after collection. Blue ice or other cooling packs were not used for cooling samples. An ice-packed cooler was on hand when samples were collected.

3.5.3 Chain of Custody

A chain-of-custody (COC) record was used to track sample possession from the time of collection to the time of receipt at the laboratory. All samples were handled under strict COC procedures beginning in the field. COC records are included with the analytical laboratory reports included in **Appendix C**.

3.5.4 Laboratory Analysis

Laboratory analyses were performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama and Pace Analytical Services, LLC (Pace). Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed**. Table 2, Monitoring Parameters and Reporting Limits**, lists assessment monitoring constituents analyzed from Site groundwater samples. Laboratory analytical data reports for the monitoring event is presented in **Appendix C**.

3.5.5 Monitoring Period Sampling Events

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the monitoring period The first semi-annual assessment monitoring event took place between April 18, 2022 and May 5, 2022.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during the Assessment Monitoring event. During the most recent sampling event, additional general chemistry and monitored natural attenuation monitoring parameters were sampled and analyzed. These analytes have been incorporated for continued evaluations of geochemical facies and their evolution over time. These analytes will also support geochemical modeling and evaluations associated with monitored natural attenuation. These parameters include:

- Calcium (filtered)
- Iron (total and dissolved)
- Silicon (total and dissolved)
- Silica (total and dissolved)
- Sodium (total and dissolved)
- Sulfide
- Potassium
- Aluminum (total and dissolved)
- Manganese
- Magnesium (total and filtered)
- Nitrate-Nitrite
- Total Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity
- Total Organic Carbon.

All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services (Greensburg) performed the laboratory analyses of Radium-226 and Radium-228 (reported combined) as well as the MNA parameter sulfide (Pace – New Orleans). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring event is included as **Appendix C** in accordance with the requirements of § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

4.0 GROUNDWATER ELEVATIONS AND FLOW

During the first semi-annual sampling event, groundwater elevations ranged from 396.11 to 429.37 feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6, Potentiometric Surface Contour Map (April 18, 2022)** depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

As shown on **Figures 6,** groundwater generally flows radially away from the Site with some flow toward the Site coming from the hillside to the south. Also as shown on **Figures 6**, there is an upward vertical gradient from wells installed at deeper intervals to those installed at more shallow intervals along the river side of the Ash Pond. This implies that groundwater is flowing vertically upward to more shallow intervals and discharging to the Coosa River. This upward vertical gradient appears to occur between Lower Knox and Middle Knox intervals as well as Middle Knox to Upper Knox intervals. The presence of vertical gradients demonstrates varying degrees of hydraulic confinement between Knox Dolomite intervals beneath the Site.

Potentiometric surfaces also show that groundwater flow proximal to recently installed and potential upgradient locations are generally towards the west and the Coosa River. This demonstrates that the Coosa River is a groundwater flow divide, and hydraulically, supports an upgradient designation for wells GN-AP-MW-38 through GN-AP-MW-42. Recent groundwater elevations for the Site have been tabulated and included in **Table 3, Groundwater Elevations Summary.**

Groundwater elevations in multiple well locations were identified as potential lowerbound outliers based upon historical groundwater elevation data and screening with Interquartile Range (1.5 x IQR) statistics While no significant groundwater flow pattern changes have been noted, the active de-watering of the ash pond has had a detectable impact in groundwater elevations observed in well GN-AP-MW-17. During the most recent 3 sampling events, the observed groundwater elevations have been lower than the historical background range. Similarly, the groundwater elevation observed in well GN-AP-MW-16 was lower than expected based upon historical background during the most recent monitoring event.

Well	Lowerbound GW Elevation Threshold (IQR)	GW Elevation 4/18/2022	Distance below Lowerbound GW Elevation
GN-AP-MW-16	400.94	399.87	-1.07
GN-AP-MW-17	407.23	403.49	-3.74

4.1 GROUNDWATER FLOW VELOCITY CALCULATIONS

Because the geology at the Ash Pond is not homogeneous or isotropic with respect to groundwater flow, groundwater velocity calculations using derivations of Darcy's Law are not applicable to groundwater at the Site. The hydrogeologic characteristics of fractured rock typically produce preferential groundwater flow paths, so groundwater velocity is much more variable than in uniform porous media such as sand. During monitoring well installation, multiple techniques were used to successfully intercept groundwater flow paths with the monitoring wells located around the Ash Pond. These flow paths correspond to weathered zones or intervals of more concentrated or unhealed fractures. Therefore, groundwater flow velocity at the Site cannot be accurately quantified using existing Site data. Slug testing provided horizontal hydraulic conductivities for the uppermost aquifer between 4.36×10^{-4} cm/sec and 0.022 cm/sec with an average of 6.02×10^{-3} cm/sec.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of one sample per every group of 10 well samples. These QA/QC samples include well duplicates, equipment blanks, and field blanks. Routine analyses of field QA/QC samples are a method for evaluating whether artificial bias could have been introduced into lab results by ways of sampling activities or equipment.

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, a comparison of results between samples and field duplicate samples are used as measure of laboratory precision. Where field duplicates are collected, the RPD between the sample and duplicate sample is calculated as:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2)/2}$$

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where the relative percent differences are below 20%, the difference is considered acceptable, and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4A, Relative Percent Difference Calculations,** provides the relative percent differences for sample and sample duplicates during the first semi-annual monitoring event of 2022. All RPDs were below 20% for the most recent sampling event.

Analytical data reviewed provided low-level or trace detections in field and or equipment blanks during the monitoring period sampling event. **Table 4B, Field QC: Blank Detections** provides a summary of low-level detections observed during the first semi-annual monitoring event. Each of these detections were estimated concentrations, above the MDL but below the RL, and qualified in the laboratory analytical

reports with "J flags." However, if concentrations are detected above the MDL in field QC samples, original results on the (1) date of a blank detection and (2) with a value less than 5 times the field QC detection are flagged with a (+) U* and MDL/RL values modified based upon the blank concentration.

Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation and or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

5.2 STATISTICAL METHODOLOGY AND TESTS

The Sanitas Groundwater statistical software is used to perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by EPA regulations. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the USEPA Unified Guidance (2009).

5.2.1 Appendix III Evaluation

Interwell prediction limits, combined with a 1-of-2 verification strategy, were constructed for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. If the most recent sample exceeds its respective background statistical limit, an initial statistically significant increase (SSI) is identified.

Groundwater Stats Consulting demonstrated that these test methods were appropriate in the October 2017 Statistical Analysis Plan, which was updated in the September 2019 data screening evaluation and also, included in the revised Statistical Analysis Plan (August 2020). Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database.

The following adjustments were made:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).

- When data contain <15% non-detects in the background, simple substitution of one-half the reporting limit is used in the statistical analysis. The reporting limit used for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data.
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

5.2.2 Appendix IV Evaluation

When in assessment monitoring, Appendix IV constituents are sampled semi-annually, and concentrations are compared to GWPS. Following the Unified Guidance, spatial variation for Appendix III parameters is tested using the ANOVA; this test is not prescribed for Appendix IV constituents. Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit), Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific Confidence Interval that is compared to the statistical limit. The statistical limit is either the Interwell Tolerance limit (i.e. background) calculated using the pool of all available upgradient well data (see Chapter 7 of the Unified Guidance), or an applicable groundwater protection standard such as the MCL. Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits.

Parametric tolerance limits (i.e. UTLs) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The UTLs were then used as the GWPS.

As described in 40 CFR §257.95(h)(1)-(3) and the ADEM Variance (see section **3.4.3)**, the GWPS is:

(1) The maximum contaminant level (MCL) established under CFR §141.62 and 141.66.
(2) Where an MCL has not been established:
    (i) Cobalt 0.006 mg/L.
    (ii) Lead 0.015 mg/L.
    (iii) Lithium 0.040 mg/L.
    (iv) Molybdenum 0.100 mg/L.
(3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

In assessment monitoring, when the Lower Confidence Limit (LCL), or the entire interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. GWPS for Appendix IV constituents are updated on a biennial schedule. This schedule was initiated in 2019 with updates generally occurring after the second semi-annual sampling event of each biennial year. Data from upgradient wells collected between updates may still be used to support ASDs if merited.

5.3 STATISTICAL EXCEEDANCES

Analytical data from the 2022 semi-annual monitoring event was statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan, published October 2017 and revised August 2020, by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

5.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix D, Statistical Analysis,** Appendix III constituents have not returned to background levels.

5.3.2 Appendix IV Constituents

Table 5, Summary of Background Levels and Groundwater Protection Standards, summarizes the background limit established at each monitoring well and the GWPS. A summary table of the statistical limits accompanies the prediction limits in **Appendix D.**

The following subsections describe statistical exceedances during the first semi-annual monitoring event of 2022.

5.3.2.1 First Semi-Annual Groundwater Monitoring Event

During the first semi-annual monitoring event, statistical analysis of Appendix IV data incorporating limits defined in the 2019 ADEM Variance (section **3.4.3**) identified the following SSLs over GWPS at the listed downgradient wells:

- GN-AP-MW-15R: Molybdenum.
- GN-AP-MW-16: Lithium, Molybdenum.
- GN-AP-MW-17: Lithium, Molybdenum.
- GN-AP-MW-18: Lithium
- GN-AP-MW-20: Lithium, Molybdenum.

Between the Fall 2021 and Spring 2022 sampling events, lithium concentrations in GN-AP-MW-15R declined below GWPS. Lithium concentrations in well GN-AP-MW-15R have been below the GWPS during the previous two sampling events as part of a significant downward trend that began between September 2019 and February 2020.

Table 6, First Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the first semi-annual sampling event.

5.3.2.2 Delineation Wells

Statistical analyses are not conducted on Site delineation wells. However, a review of analytical data derived from delineation wells identified concentrations above GWPS for the following well, parameter pairs:

- GN-AP-MW-16V: Lithium, Molybdenum.
- GN-AP-MW-17SV: Lithium, Molybdenum.
- GN-AP-MW-17V: Combined Radium 226 + 228, Lithium, Molybdenum.
- GN-AP-MW-20SV: Molybdenum.
- GN-AP-MW-20V: Lithium, Molybdenum.
- GN-AP-MW-28H: Combined Radium 226+228, Lithium, Molybdenum.
- GN-AP-MW-29H: Combined Radium 226+228, Lithium, Molybdenum.
- GN-AP-MW-32V: Lithium,
- GN-AP-MW-33V: Lithium
- GN-AP-MW-34V: Molybdenum.
- GN-AP-MW-37V: Lithium, Molybdenum.

An Alternate Source Demonstration (ASD) for combined radium 226+228 was submitted as an appendix in the 2018 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2019. ADEM responded on November 14, 2019, indicating ADEM was in concurrence that the radium could be naturally

occurring, but requested additional data or documentation to definitively determine the source of the radium. A further study on the source of the radium at the Ash Pond was initiated in July 2020. An amended ASD with data showing a natural source for combined radium 226 + 228 in groundwater at the Site was completed. The completed ASD was submitted along with the 2020 Annual Groundwater Monitoring Report. This ASD documented an alternative source for combined radium 226 +228 exceedances and was approved by ADEM in a correspondence letter dated June 30, 2021

To address SSLs at the Site, an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic, molybdenum, and lithium in groundwater at the Site in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-095-GW. The ACM was submitted to ADEM and placed in the operating record on June 12, 2019. Since the completion of the ACM, additional investigations have culminated in the Groundwater Remedy Selection Report submitted in November 2021. This report documents in more detail selected remedies, positive impacts of pond closure, expected or potential performance, and high-level discussion of implementation.

6.0 GROUNDWATER ASSESSMENT AND CORRECTIVE ACTION

As required by Part E of the Order (AO 18-095-GW) and correspondence from ADEM (March 2021), this report provides an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018). The primary purpose of this plan and subsequent phases of work were to identify the horizontal and vertical extent of groundwater impacts defined by EPA Appendix IV groundwater protection standards.

A comprehensive groundwater delineation report summarizing findings was submitted to ADEM in September 2020. The conclusions and results presented indicate that groundwater delineation have been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan.

6.1 CHRONOLOGY OF DELINEATION ACTIVITIES

Beginning in 2019, Semi-Annual Progress Reports have routinely been provided to ADEM in March and September, annually. Alabama Power Company (APC) requested approval to combine information typically provided in the Semi-Annual Progress Reports with Semi-Annual Groundwater Monitoring and Corrective Action Reports on March 15, 2021. ADEM approved this approach and revised timeline for submittals on March 16, 2021. APC will now provide the Department with a discussion of delineation results and activities in each semi-annual groundwater monitoring and corrective action report (July; January) until released in writing.

6.1.1 Delineation Wells

Part B of the Order required the installation of additional wells as necessary to define the extent of groundwater impacts. The follow sections describe monitoring wells installed to delineate impacts to groundwater.

Phase I – Groundwater Investigation (November 2018 – March 2019)

Phase I was conducted between the dates of November 29, 2018 to March 8, 2019. **Table 1b** and **Figure 5,** present details of the CCR monitoring well network and locations of on-Site delineation wells. The following summarizes all activities that were completed during Phase I of groundwater delineation at the Site:

- Installation and sampling of five vertical delineation wells (GN-AP-MW-16V, GN-AP-MW-17V, GN-AP-MW-17SV, GN-AP-MW-20V, and GN-AP-MW-20SV) generally offset from the eastern waste boundary compliance wells and screened in the Unit 2 Knox Aquifer.
- Utilization and sampling of one previously installed deep piezometer (GN-AP-MW-23D) for vertical delineation southwest of the Ash Pond.
- Installation and sampling of two horizontal delineation wells (GN-AP-MW-28H and GN-AP-MW-29H) proximal to the eastern property boundary installed in the Unit 2 Knox Aquifer and in the direction of groundwater flow away from the facility.
- Utilization and sampling of three previously installed shallow piezometers (GN-AP-MW23S, GN-AP-MW-26, and GN-AP-MW-27) for horizontal delineation west of the Ash Pond.
- Collected five ash samples for waste characterization analyses from the Plant Gaston Ash Pond.
- Developed the eleven delineation wells between December 10, 2018 and February 18, 2019.
- Collected water samples from the delineation wells and three pre-existing Ash Pond piezometers between December 5, 2018 and March 8, 2019.
- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on March 30, 2019.
- Submitted to ADEM a Groundwater Investigation Report to the Department on May 13, 2019. This report recommended a second phase of groundwater investigation to complete delineation of groundwater impacts as required by Part B of the Order.
- Submitted an Assessment of Corrective Measures for the Ash Pond to the Department on July 11, 2019 as required by Part C of the Order.
- Submitted a Phase II – Groundwater Delineation Plan to the Department on August 15, 2019. This plan documented planned activities associated with proposed Phase II delineation efforts.
- On December 30, 2019, provided the Department with a response to comments received from the Department on November 14, 2019.

Phase II – Groundwater Investigation (August 2019 – October 2019)

Following a review of data obtained from the Phase I Investigation, additional groundwater investigation was proposed to the Department in a Phase II Delineation Plan submitted August 15, 2019. Phase II was

conducted to complete vertical delineation along the eastern boundary of the Site. Phase II was conducted between the dates of August 28, 2019 to October 24, 2019. The following summarizes all activities that were completed during Phase II of groundwater delineation at the Site:

- Installed four vertical delineation wells (GN-AP-MW-31V, GN-AP-MW-32V, GN-AP-MW-33V, and GN-AP-MW-34V) and one horizontal delineation well (GN-AP-MW-30H) between August 28, 2019 and September 21, 2019.
- Completed semi-annual assessment groundwater sampling event between September 16, 2019 and September 25, 2019.
- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on September 30, 2019.
- Developed four delineation wells between October 15, 2019 and October 18, 2019. Well GN-AP-MW-31V did not produce sufficient water for development.
- Sampled the four delineation wells between October 21, 2019 and October 24, 2019. Delineation well GN-AP-MW-31V did not produce sufficient water to be sampled and was designated as a water level only piezometer.
- Abandoned 2 monitoring wells (GN-AP-MW-1, and GN-AP-MW-2) located south of the Ash Pond as needed due to pond closure activities.

Phase III – Groundwater Investigation (February 2020 – April 2020)

Following a review of data obtained from the Phase I and II Investigations, additional groundwater investigation was necessary to vertically delineate lithium and molybdenum southeast of the ash pond. Phase III was conducted between the dates of February 15, 2020 to April 30, 2020. The following summarizes all activities that were completed during Phase III of groundwater delineation at the Site:

- Installed four deep vertical delineation wells (GN-AP-MW-31VR, GN-AP-MW-35V, GN-AP-MW-36V, and GN-AP-MW-37V) between February 15, 2020 and March 28, 2020. Delineation well GN-AP-MW-31VR replaced previously installed GN-AP-MW-31V that did not produce sufficient water for sampling.
- Completed semi-annual assessment groundwater sampling event between February 17, 2020 and February 28, 2020.

- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on March 30, 2020.
- Developed the four delineation wells between April 7, 2020 and April 15, 2020. Partial development via air-lifting was also employed while the drilling team was on-Site in March 2020.
- Sampled the four delineation wells between April 29, 2020 and April 30, 2020.

6.2 NATURE AND ESTIMATED QUANTITY OF RELEASE

Part B of the Order requires collecting data on the nature and estimated quantity of material released. To collect data regarding the nature of the source and estimated quantity of material released leachability testing of 5 ash samples and sampling of ash pore-water at 3 locations was conducted. Leachability testing was conducted for EPA Resource and Recovery Act (RCRA) heavy metals, while ash pore-water was sampled for all EPA Appendix III and IV constituents. Groundwater quality data is compared to source water and leachate composition to provide a basis for evaluating the degree to which the source area has contributed constituents to groundwater.

6.3 DISCUSSION OF DELINEATION RESULTS

Three phases of delineation field activities were performed at the Plant Gaston Ash Pond. Successive, deeper vertical delineation wells were installed proximal to the river on the eastern side of the Ash Pond to continue the vertical delineation of lithium and molybdenum during Phase II and Phase III.

Prior to the installation of compliance monitoring wells, an ERI study was conducted to characterize potential preferential flow pathways through the rock mass and aid in the determination of well location targets and well screen intervals (depths). ERI is a non-invasive means of imaging subsurface features and materials. ERI results are presented as 2D transects or cross-sections that profile the electrical resistivity of subsurface materials. Lower resistivity zones can correspond to rock discontinuities, weathered layers/zones, and or groundwater saturation. These ERI results were also used to help guide the depth and **extent of vertical delineation.**

6.3.1 Arsenic Delineation

Figure 7A, Arsenic Concentration Call-Out Map and **Figure 8A**, **Arsenic Concentration Along Geologic Cross Section B-B',** shows arsenic concentrations from the most recent sampling event. As indicated on these figures, arsenic concentrations exceed the GWPS at a single vertical delineation well,

GN-AP-MW-33V, located southeast of the Ash Pond and screened across a middle to lower interval of the Knox Dolomite.

Historically, of 6 times sampled, arsenic concentrations have exceeded GWPS 3 times and been below the GWPS 3 times. Arsenic concentrations appear to be dependent or driven by DO, iron, and ORP. Arsenic has been increasing as DO and iron have shown a general increasing pattern. ORP decreased over the first 3 sampling events, and has remained low, likely a factor in the mobilization of arsenic to groundwater. Arsenic concentrations have a correlation coefficient of 0.82 with iron and 0.64 with DO. Arsenic shows very strong negative correlation with manganese (-0.90) and boron (-0.88). Additionally, arsenic concentrations are negatively and poorly correlated with chloride, conductivity, and sulfate. Negative correlations with CCR indicator parameters imply an alternate source or a sequestered source of arsenic. Given the positive correlation with DO and iron, and strong negative correlation with manganese, the most plausible mechanism appears to be the oxidation of iron minerals and corresponding release of sorbed-arsenic near the well screen interval.

Historically, arsenic has exceeded the GWPS at only compliance well GN-AP-MW-17. Arsenic concentrations declined below the GWPS around the summer of 2020 and have been below or at the groundwater protection standard during the previous 4 sampling events. The previous 14 sampling events had a 100% exceedance rate; however, a noticeable declining trend began near the beginning of 2018. A shift to negative ORP and a slight downward pH trend initiated (oscillating) about the same time. Conversely, parameters such as conductivity, sulfate, and lithium have trended opposite and upward, since 2019.

As shown on **Figures 5** and **7A**, numerous delineation wells were installed lateral to the northeast and southwest to assess potential width of impacts to groundwater. These lateral or horizontal delineation wells provided arsenic concentrations at low-level, trace or estimated concentrations below the GWPS. The data gathered from these lateral wells supports the interpretation of a discrete fracture as the source or transport mechanism for arsenic. Arsenic has been successfully delineated in the vertical extent. GN-AP-MW-17 is located within 10 to 20 feet of the Coosa River and therefore, arsenic delineation to the southeast was not feasible.

6.3.2 Lithium Delineation

As shown on **Figure 7B**, **Lithium Concentration Call Out Map,** lithium concentrations over GWPS have been limited to the southeastern portion of the Site and in the zone defined by ERI as having potential for

preferential groundwater flow. Similar to the arsenic discussions above, further horizontal delineation was not feasible due to physical limitations and the inability to access additional drilling locations.

Lateral delineation to the northeast and southwest shows that lithium concentrations over the GWPS extend from an area between GN-AP-MW-16 to GN-AP-MW-15R to the northeast to just southwest of delineation wells GN-AP-MW-34V and GN-AP-MW-35V. To the northeast, wells GN-AP-MW-15R, GN-AP-MW-30H and GN-AP-MW-31VR show successful delineation and to the southwest, compliance well GN-AP-MW-19, demonstrates successful delineation.

Historically, lithium has exceeded the GWPS at compliance well GN-AP-MW-15R. However, concentrations have dropped steadily and significantly since September 2019. The last two lithium concentration have been below the GWPS. Trends in other CCR indicator parameters show a similar strong decreasing trend in well GN-AP-MW-15R.

Figure 8B Lithium Concentrations Along Geologic Cross Section B-B', shows that the vertical extent of lithium, southeast of the Site, has largely been delineated in the vertical extent. The lone exception is deep vertical delineation well, GN-AP-MW-37V, which exceeds the lithium GWPS by only 0.0046 mg/l and historically, has demonstrated concentrations below GWPS. The average concentration is also slightly above the GWPS (0.051 mg/L). Concentrations and trends in this well will continue to be monitored but at this time no additional vertical delineation in this area is being recommended. Lithium concentrations in GN-AP-MW-37V have declined each of the last 3 sampling events.

Figure 8B also shows that lithium concentrations are generally the highest between elevations 300 and 360 ft MSL where preferential flow was indicated on geophysical imaging. The 0.04 mg/l contour line presented on **Figure 8B** indicates that lithium concentrations above the GWPS extend from the top of rock (380 to 370 ft MSL) to an elevation of roughly 145 ft MSL. This zone is interpreted to be a vertical geologic structure that allows for preferential migration and agrees strongly with ERI data. The zone between 300 and 360 ft MSL is likely a more weathered or fractured layer of dolomite.

Concentrations in wells GS-AP-MW-15R, GS-AP-MW-37V, and GS-AP-MW-33V have declined in recent sampling events whereas most other wells have shown a stable concentration. This suggests potential decreasing mass and footprint of the plume area. Indeed, aggregated average concentrations along the **Figure 8B** cross-section decreased slightly from a 2021 average of 0.1640 to 0.1605 mg/L during the first sampling event of 2022. This small decrease, at a minimum, indicates plume stability.

6.3.3 Molybdenum Delineation

As shown on **Figure 7C**, **Molybdenum Concentration Call Out Map,** molybdenum concentrations over GWPS are limited to the southeastern portion of the Site and in the zone defined by ERI as having potential for preferential groundwater flow. Similar to the arsenic and lithium discussions above, further horizontal delineation was not feasible due to physical limitations and the inability to access additional drilling locations to the southeast.

Historically, downgradient compliance well GN-AP-MW-5, has been the only well location exhibiting a GWPS exceedance for molybdenum. During the February 2020 sampling event, molybdenum concentrations in well GN-AP-MW-5 decreased well below the GWPS. Historically, concentrations have occurred between 0.35 mg/l and 0.13 mg/l at well GN-AP-MW-5 but have also demonstrated an oscillating, downward trend since January 2018. The February 2020 sampling event provided a concentration of 0.0546 mg/l. and represented the first data point below the GWPS. When looking at recent time series and data, it appears that ash pond closure activities are having a positive impact on reducing COI concentrations. Nearly all appendix III and IV parameters exhibit decreasing trends in well GN-AP-MW-5 with molybdenum falling below GWPS three out of the previous 4 sampling events. DO and ORP exhibit strong negative correlations with molybdenum in well GN-AP-MW-5 indicating that more oxygenated groundwater has led to a decrease in COI concentrations. This could reflect a return to natural groundwater quality in this area of the Site.

To the west, previously existing piezometers GN-AP-MW-23S, GN-AP-MW-26, and GN-AP-MW-27 were converted to horizontal delineation wells, and GN-AP-MW-23D to a vertical delineation well, for the purposes of delineating molybdenum proximal to GN-AP-MW-5. These wells are located to the west of the Plant Gaston Ash Pond on APC-owned property. Concentrations at these locations have been well below GWPS (0.018 to 0.004 mg/L). The most recent molybdenum in well GN-AP-MW-5 was 0.0389 mg/L – which is the 4th consecutive decrease in concentration and reflects a shift in pattern away from seasonal oscillations.

Molybdenum – Southeast Delineation

Lateral delineation to the northeast and southwest shows that molybdenum concentrations over the GWPS extend from GN-AP-MW-15R to the northeast to just southwest of delineation wells GN-AP-MW-34V and GN-AP-MW-35V. To the northeast, wells GN-AP-MW-30H and GN-AP-MW-31VR show successful delineation and to the southwest, compliance well GN-AP-MW-19, demonstrates successful delineation.

This can be visualized in both **Figure 7C** and **Figure 8C, Molybdenum Concentrations Along Geologic Cross-Section B-B'**.

Like lithium, molybdenum in well GN-AP-MW-15R has been trending downward steadily and significantly. This decreasing trend began between April and May of 2019 and has decreased from 0.43 to 0.14 mg/l over that time span. At the current rate of concentration decline, molybdenum will decrease below GWPS in 2023.

Geologic and geochemical data provided on **Figure 8C,** show that molybdenum has also been delineated in the vertical sense to a sufficient degree for remedy selection. This figure shows that molybdenum concentrations are generally the highest between elevations 300 and 360 ft mean sea level (MSL) near southeastern boundary of the Site and nearest to compliance well GN-AP-MW-17. This zone is interpreted to be a vertical geologic structure that allows for preferential migration and agrees strongly with ERI data. The zone between 300 and 360 ft MSL is likely a more weathered or fractured layer of dolomite. Concentrations appear highest where the potential vertical feature intersect the more weathered/fractured horizontal layer.

Figure 8C also shows that molybdenum concentrations above the GWPS (0.1 mg/L) occur deepest near vertical delineation well GN-AP-MW-37V. The 0.1 mg/l contour line presented on **Figure 8C** indicates that molybdenum concentrations above the GWPS extend from the top of rock (380 to 370 ft MSL) to elevations ranging from 250 ft to 190 ft MSL between wells GN-AP-MW-16V and GN-AP-MW-35V. To the northeast, **Figure 8C** shows that molybdenum exceedances are relatively shallow in comparison, with concentrations above the GWPS, extending down to roughly 300 ft MSL in the vicinity of GN-AP-MW-31VR.

Vertical delineation wells GN-AP-MW-35V and GN-AP-MW-36V show vertical delineation. Vertical delineation well GN-AP-MW-37V exhibited a GWPS exceedance; however, the distribution and extent of molybdenum exceedances in groundwater is established well enough for developing a remedial strategy to address the occurrence. Concentrations in well GN-AP-MW-37V have also shown a slight decreasing trend over the last 3 sampling events. The most recent concentration of 0.18 mg/L, just above the GWPS of 0.1 mg/L. In aggregate, molybdenum concentrations in the area appear stable, with a very slight decrease in average concentration from 2021 (0.5481 mg/L) to 2022 (0.5342 mg/L). Molybdenum concentrations in well GN-AP-MW-17 have shown 2 consecutive decreases in concentration which is the first time in this

well's history to have consecutive decreases in molybdenum concentration. Vertical delineation well, GN-AP-MW-17V, has shown a similar decreasing pattern recently.

6.4 STATUS OF DELINEATION

Arsenic, lithium, and molybdenum have been horizontally delineated to the extent feasible at the Site. Additional horizontal delineations wells stepped out in the direction of groundwater flow to the southeast are not feasible due to physical limitations. A surface water sampling program with targeted locations and depths based on preferential groundwater flow were selected to achieve delineation. This program was proposed in the February 2022 Groundwater Corrective Action Monitoring Program document.

The vertical extent of impacts have been established and delineated. The lone exception is deep vertical delineation well, GN-AP-MW-37V, which barely exceeds the GWPS for lithium and molybdenum. As shown on **Figures 8A, 8B,** and **8C**, a sufficient number of vertical delineation wells, geological data, and geochemical data exists to evaluate remedial options southeast of the Site. No additional deeper vertical delineation in the vicinity of GN-AP-MW-37V is currently planned for these reasons. Conditions, concentrations, and trends will continue to be evaluated with respect to this. Currently, this well is showing decreasing trends for both molybdenum and lithium.

Permeation grouting pilot activities will target the apparent preferential flow path where COI are concentrated on **Figures 8A, 8B** and **8C**. Feasibility studies for geochemical enhancements are also being considered for application in fractured rock and if feasible, could be used alongside permeation grouting and MNA to treat this preferential flow zone. Additional assessment wells may be proposed or added to augment pilot studies or corrective action monitoring.

6.5 GROUNDWATER REMEDY AND CORRECTIVE ACTION

An Assessment of Corrective Measures (ACM) for groundwater impacts was conducted and formally submitted to ADEM in June 2019. Additional data analyses and investigations conducted since the ACM culminated with a more detailed Groundwater Remedy Selection Report, submitted in November 2021, and a Corrective Action Groundwater Monitoring Program document submitted in February 2022.

Submittal	Submittal Date	Purpose
Assessment of Corrective Measures	06/2019	Initial evaluation of the feasibility, performance, and implementation of known and emerging groundwater remediation technologies against site conditions and factors.
Groundwater Remedy Selection Report	11/2021	Formal selection and detailed description of groundwater remedies selected for implementation at the site.
Corrective Action Groundwater Monitoring Program	02/2022	Plan document to describe process and program for implementation and monitoring of groundwater remedies selected at the site.

6.5.1 Groundwater Remedy Selection

The Groundwater Remedy Selection Report described the selected remedies for groundwater corrective actions at the site:

- Source control to include dewatering, consolidation, and capping of the CCR unit,
- Permeation grouting in areas of higher concentrations of constituents of interest (COI) and or preferential groundwater flow pathways to prevent COI movement,
- Monitored natural attenuation (MNA) over the entire site.

Closure of the CCR Unit – including dewatering, consolidation, and capping – will greatly reduce or eliminate source contributions to groundwater. Permeation grouting was selected because, as a corollary to barrier walls, it impedes groundwater flow and helps prevent the migration of COIs away from the source area. Additionally, permeation grouting can also be a viewed as a complementary method to MNA – where either the sealing of groundwater flow or the slowing of the flow path away from the source area provides longer residence time for MNA processes to reduce COI concentrations. MNA was selected based upon the

evidence gathered during initial investigations - which highlighted that these processes are already occurring.

6.5.2 Corrective Action – Groundwater Monitoring Program

The Corrective Action Groundwater Monitoring Program describes early plans for implementation and monitoring of groundwater remedies described above. This plan chunked the program into two stages.

- Stage 1 will include ongoing compliance monitoring, remedial effectiveness monitoring for permeation grouting, MNA performance monitoring, sentinel/clean-line monitoring (including surface water monitoring), and demonstration that Site conditions remain protective of potential human and ecological receptors. Prompt action will be taken should data or data trends indicate such actions are warranted.
- Stage 2 monitoring will be implemented upon Site closure, with the first 2 years of Stage 2 monitoring consisting of background data collection to serve as a baseline. Stage 2 monitoring will be composed of ongoing compliance monitoring, additional wells or sampling locations as needed to evaluate remedy effectiveness, additional MNA parameters as needed, mass and mass flux calculations, additional monitoring associated with permeation grouting (if implemented), re-evaluation of natural attenuation processes and efficacy every 10 years, and demonstration that Site conditions remain protective of potential human and ecological receptors.

Stage 1

The initial phase of Stage 1 has implementation tasks associated with each selected groundwater remedy that serve as a foundation for the remainder of Stage 1 and Stage 2:

Selected Remedy	Implementation Task(s)
Monitored Natural Attenuation	1. Implementation of expanded MNA sampling parameters. 2. Further assessment of MNA monitoring network.
Permeation Grouting Program	1. Plan, Work Scope development and field program for the detailed characterization of fracture flow characteristics and data needs supporting a permeation grouting pilot 2. Implementation of Permeation Grouting Pilot Program using data collected from detailed characterization.
Source Control/Closure Activities	1. Evaluation of geochemical changes in groundwater with respect to transient closure activities (excavation, de-watering, etc). 2. Implementation of field data collection instruments/telemetry within key monitoring wells to further understand the nature of geochemical changes over time and with respect to closure activities and MNA/geochemical modelling.

Implementation of Monitored Natural Attenuation

MNA sampling parameters were added to the sampling plans and analyzed in the laboratory during the March 2022 sampling event (**Table 6**). These parameters in addition to field parameters, Appendix III, and

Appendix IV parameters are utilized to study the processes that govern or facilitate MNA as well as changes in geochemical conditions. Parameters will be included in the site geochemical model.

Additionally, via continued data evaluation for delineation and assessment of potential geogenic sources of COI, additional assessment wells have been recommended as detailed in **Section 6.3**.

Permeation Grouting Program

An Implementation and Data Requirements Plan – Permeation Grouting Pilot Program is being drafted to outline means and methods for the complete geologic and hydrogeologic characterization of the area of the site selected for the pilot study. This document provides a plan for the detailed characterization of fracture flow through the Pottsville Formation – including standards for core logging, downhole geophysical methods, hydrogeophysical methods, and aquifer performance testing. This plan will be executed in the field and data analyzed to complete the initial study or foundation phase of the Permeation Grouting Pilot Program.

The tentative schedule for this initial foundation phase is outlined as:

- Implementation and Data Requirements Plan – Permeation Grouting Pilot Program: Finalized Late August/Early September 2022.
- Fracture-Flow Field Study and Data Analyses – 4th quarter 2022 to 2nd quarter 2023
- Permeation Grouting Pilot Program – TBD, pending requisite documents and approvals supporting the injection program.

Source Control/Closure Activities

The primary task and objectives at the on-set of Stage 1 include: (1) monitoring and reviewing for changes in geochemical conditions that would invoke an adaptive trigger, (2) studying transient changes in groundwater quality that may be the result of physical closure activities, and (3) determination of primary mechanisms and geochemical relationships at play in changing geochemical conditions. The understanding of mechanisms and relationships leading to geochemical changes in groundwater provides opportunity to further understand natural MNA processes at the site and document benefits/impacts of source control as closure progresses.

As a part of the Semi-Annual Monitoring Reporting process, groundwater quality is being evaluated with respect to:

- Concentration Trends
    - By Analyte
    - By Locations
    - In Aggregate
- Geochemical Correlations
- Concentration Trends/Geochemical Corrrelations cross-referenced to by recent or active ash pond closure activities.

To facilitate further understanding of trends and correlating relationships, AquaTROLL instrumentation is being installed at select key monitoring well locations for the near continuous monitoring of field parameters. This additional data will allow for a better understanding of the degree of changes driven by different types of closure activities, the response of site flow systems, and possible correlations/changes noted in semi-annual monitoring data.

AquaTROLL instrumentation will be installed during the 3rd quarter of 2022 (pending supply chain issues) at the following monitoring locations:

- GN-AP-MW-5
- GN-AP-MW-11
- GN-AP-MW-16
- GN-AP-MW-17
- GN-AP-MW-20
- GN-AP-MW-17SV
- GN-AP-MW-17V
- GN-AP-MW-16V
- GN-AP-MW-33V

6.6 GROUNDWATER QUALITY CHANGES AND TRENDS

Groundwater quality trends have been reviewed with respect to potential transient changes induced by ash pond closure activities.

A review of field parameter data shows that DO has been increasing on average year by year since 2018. The most prominent increases were noted beginning in 2019 and 2020 – which generally correlates to ash pond closure activities and the cease of sluicing ash to the pond. Spatially, increasing trends are observed site-wide in compliance wells with the strongest magnitude changes concentrated to the west, southwest, and north, and weakest in the vicinity of wells GN-AP-MW-16 to GN-AP-MW-18 to the south. Average DO concentration from site compliance wells installed at the waste boundary are provided below.

- 2016: DO = 0.7269 mg/L
- 2017: DO = 0.6679 mg/L
- 2018: DO = 0.7368 mg/L
- 2019: DO = 0.9500 mg/L
- 2020: DO = 0.9780 mg/L
- 2021: DO = 1.2265 mg/L
- 2022: DO = 1.3755 mg/L

Important groundwater quality changes or trends have been noted in **Section 6.3**. The key findings include:

- Arsenic concentrations in compliance well GN-AP-MW-17 decreased to below GWPS as part of slowly decreasing trend that began between January and April 2018.
- Lithium concentrations in compliance well GN-AP-MW-15R decreased to below GWPS as part of strong decreasing trend that began between September 2019 and February 2020.
- Molybdenum concentrations in compliance well GN-AP-MW-15R are decreasing towards the GWPS as part of a strong decreasing trend that began between April and May 2019.
- Molybdenum concentrations in compliance well GN-AP-MW-5 dropped below the GWPS as part of an oscillating but downward trend that began in January 2018.
- Lithium and molybdenum have shown subtle decreasing trends in deep vertical delineation well GN-AP-MW-37
- Molybdenum concentrations have decreased consecutively in wells GN-AP-MW-17 and GN-AP-MW-17V (first time)

- Increase in arsenic concentrations in delineation well GN-AP-MW-33V to a concentration above GWPS.

These changes amount to a 27% reduction in SSLs from historical compliance well SSLs. Many of these downward trends appear to have initiated prior to the start of ash pond closure activities but may have also been reinforced by these activities - namely the halt to sluicing and ash dewatering.

7.0 SUMMARY AND CONCLUSIONS

Semi-annual assessment monitoring took place in April and May 2022. Statistical evaluations of the assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. To address previously identified SSLs, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on November 31, 2021, and a Corrective Action Groundwater Monitoring Program plan on February 28, 2022. Focus at the Site now begins to shift towards further planning and implementation of remedies along with continued evaluation of assessment and compliance data.

The following future actions will be taken or are recommended for the Site:

- Continue with phase 1 implementation of the Permeation Grouting Pilot Program for the remediation of arsenic, lithium, and molybdenum.
- Installation of near real-time instrumentation for the monitoring of potential changes in field parameter data in response to ash pond closure activities (August-September 2022).
- Evaluation of recently collected MNA parameter data.
- Conduct the second semi-annual assessment monitoring event in October 2022 and submit the semi-annual groundwater monitoring report summarizing the findings to ADEM by January 31, 2023.

8.0 REFERENCES

Alabama Department of Environmental Management (ADEM), 2018, Solid Waste Program, Division 13, ADEM Admin. Code r. 335-13-15.

Anchor QEA, 2020, Semi-Annual Remedy Selection and Design Progress Report Plant Gaston Ash Pond.

ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, www.astm.org.

Frings, D.M., 1980. Report on the Geology of E.C. Gaston Steam Plant Dry Ash Disposal System. Provided by Southern Company Services, December, 2010.

Frings, D.M., 1981. Report on the Geology of E.C. Gaston Steam Plant Office Annex Addition. Provided by Southern Company Services, December, 2010.

Geological Survey of Alabama (GSA), 2010b, Digital Geologic Map of Alabama, URL:http://www.gsa.state.al.us, accessed November, 2010.

Kopaska-Merkel, David C., Lewis S. Dean, and James D. Moore, 2005. Hydrogeology and Vulnerability to Contamination of Major Aquifers in Alabama: Area 4. Geological Survey of Alabama Circular 199D.

McIntyre, M.R., J.C. Pashin, and G.M. McKinney, III, 2010. Report on Plant Geology, Prepared for Southern Company Services by the Geological Survey of Alabama.

Sapp, C.D., and Emplaincourt, J., 1975, Physiographic regions of Alabama, Special Map 168, Geological Survey of Alabama.

Szabo, Michael W., Otis M. Clarke, Jr., and Donald B. Moore, 1969. Mineral Resources Map of Mobile, County, Alabama. Geological Survey of Alabama (GSA) Map 89.

USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance.

USEPA. 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. *40 CFR Parts 257and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule.* [EPA-HQ-RCRA–2009–0640; FRL–9919–44–OSWER]. RIN–2050–AE81. April.

United States Geological Survey (USGS), 1980b. Wilsonville, Alabama Quadrangle, 7.5 Minute Series Topographic Map.

United States Geological Survey (USGS), 2005. Alabama Water Science Center, Water use by County in Alabama, Shelby County. URL: https://al.water.usgs.gov/index.html. Accessed December, 2010.

Tables

Southern Company

Table 1a. - Compliance Monitoring Well Network Details
Plant Gaston Ash Pond

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-3	Upgradient	Middle Knox Dolomite	33.22911	-86.47461	444.34	447.14	81.6	375.94	365.94	10	9/30/2015
GN-AP-MW-38	Upgradient	Middle Knox Dolomite	33.23268	-86.45639	402.50	404.93	74.4	340.93	330.93	10	2/6/2021
GN-AP-MW-39	Upgradient	Wash Creek Slate	33.23688	-86.4519	413.93	416.71	78.3	348.81	338.81	10	2/22/2021
GN-AP-MW-40	Upgradient	Middle Knox Dolomite	33.23101	-86.4523	411.79	414.32	72.2	352.52	342.52	10	2/17/2021
GN-AP-MW-41	Upgradient	Middle Knox Dolomite	33.23007	-86.45673	404.61	407.28	76.8	340.88	330.88	10	2/7/2021
GN-AP-MW-42	Upgradient	Middle Knox Dolomite	33.22744	-86.45374	430.01	433.01	107.3	336.11	326.11	10	2/20/2021
GN-AP-MW-4	Downgradient	Middle Knox Dolomite	33.22617	-86.47804	437.86	440.57	96.1	354.87	344.87	10	11/6/2015
GN-AP-MW-5	Downgradient	Upper Knox Dolomite	33.22817	-86.47903	428.06	431.30	63.1	378.65	368.65	10	9/17/2015
GN-AP-MW-6	Downgradient	Upper Knox Dolomite	33.23014	-86.47904	424.61	427.85	50.3	387.95	377.95	10	9/21/2015
GN-AP-MW-7	Downgradient	Upper Knox Dolomite	33.23259	-86.47908	416.80	420.02	64.7	365.75	355.75	10	9/23/2015
GN-AP-MW-8	Downgradient	Middle Knox Dolomite	33.23467	-86.47884	426.87	429.63	84.7	355.34	345.34	10	10/14/2015
GN-AP-MW-9	Downgradient	Mid-Lower Knox Dolomite	33.23576	-86.47681	422.16	424.85	135.7	299.56	289.56	10	11/12/2015
GN-AP-MW-10	Downgradient	Middle Knox Dolomite	33.23655	-86.47459	422.69	425.69	82.6	353.49	343.49	10	9/4/2015
GN-AP-MW-11	Downgradient	Middle Knox Dolomite	33.23731	-86.47253	422.62	425.39	77.4	358.35	348.35	10	10/9/2015
GN-AP-MW-12	Downgradient	Middle Knox Dolomite	33.23811	-86.47035	422.43	425.22	89.5	346.12	336.12	10	9/9/2015

Notes:
ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
(1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
(3) Total well depth accounts for sump if data provided on well construction logs.

Southern Company

Table 1a. - Compliance Monitoring Well Network Details
Plant Gaston Ash Pond

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-13	Downgradient	Upper Knox Dolomite	33.23883	-86.46819	421.21	424.04	65.4	369.02	359.02	10	9/1/2015
GN-AP-MW-14	Downgradient	Middle Knox Dolomite	33.24021	-86.46548	424.54	427.20	97.1	340.55	330.55	10	12/10/2015
GN-AP-MW-15R	Downgradient	Middle Knox Dolomite	33.23771	-86.46187	438.00	438.15	67.5	381.09	371.09	10	6/2/2016
GN-AP-MW-16	Downgradient	Upper Knox Dolomite	33.23613	-86.46255	419.08	422.30	50.4	382.35	372.35	10	9/16/2015
GN-AP-MW-17	Downgradient	Middle Knox Dolomite	33.23456	-86.46379	404.86	407.75	67.4	350.73	340.73	10	10/13/2015
GN-AP-MW-18	Downgradient	Middle Knox Dolomite	33.23275	-86.46499	413.22	416.13	60.9	365.64	355.64	10	9/11/2015
GN-AP-MW-19	Downgradient	Middle Knox Dolomite	33.23056	-86.46778	413.75	416.16	91.9	334.66	324.66	10	11/3/2015
GN-AP-MW-20	Downgradient	Middle Knox Dolomite	33.23129	-86.46585	403.89	406.65	88.3	328.75	318.75	10	12/1/2015
GN-AP-MW-21	Downgradient	Upper Knox Dolomite	33.22979	-86.47908	425.25	428.25	38.5	400.15	390.15	10	6/9/2016
GN-AP-MW-22	Downgradient	Upper Knox Dolomite	33.22895	-86.47906	424.11	427.11	34.1	403.41	393.41	10	6/8/2016

Notes:
ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
(1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
(3) Total well depth accounts for sump if data provided on well construction logs.

Southern Company

Table 1b. - Delineation Well Network Details
Plant Gaston Ash Pond

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-17SV	Vertical Delineation	Upper Knox Dolomite	33.23634	-86.46248	404.10	406.92	29.5	387.82	377.82	10	12/5/2018
GN-AP-MW-20SV	Vertical Delineation	Upper Knox Dolomite	33.23486	-86.46363	403.07	405.78	33.0	383.20	373.20	10	12/3/2018
GN-AP-MW-20V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23478	-86.46371	403.25	406.25	118.9	297.75	287.75	10	1/10/2019
GN-AP-MW-17V	Vertical Delineation	Middle Knox Dolomite	33.23133	-86.46593	402.25	405.25	102.0	313.65	303.65	10	1/17/2019
GN-AP-MW-16V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23536	-86.46324	420.26	422.88	123.3	309.98	299.98	10	2/6/2019
GN-AP-MW-23D	Vertical Delineation	Lower Knox Dolomite	33.22819	-86.47944	425.94	428.69	147.4	291.73	281.73	10	--
GN-AP-MW-32V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23592	-86.46319	451.07	453.77	243.3	220.92	210.92	10	9/17/2019
GN-AP-MW-33V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23469	-86.46413	451.26	454.29	243.2	221.54	211.54	10	9/21/2019
GN-AP-MW-34V	Vertical Delineation	Mid-Lower Knox Dolomite	33.23154	-86.46624	445.15	447.98	229.8	228.55	218.55	10	9/3/2019
GN-AP-MW-31VR	Vertical Delineation	Mid-Lower Knox Dolomite	33.23833	-86.46136	435.28	438.65	194.4	254.68	244.68	10	3/24/2020
GN-AP-MW-36V	Vertical Delineation	Lower Knox Dolomite	33.23459	-86.46421	451.34	454.37	349.0	125.74	105.74	20	3/14/2020
GN-AP-MW-35V	Vertical Delineation	Lower Knox Dolomite	33.23158	-86.46626	446.08	449.39	353.9	115.88	95.88	20	3/31/2020
GN-AP-MW-37V	Vertical Delineation	Lower Knox Dolomite	33.23604	-86.46309	450.79	453.46	347.7	126.19	106.19	20	2/19/2020
GN-AP-MW-29H	Horizontal Delineation	Middle Knox Dolomite	33.23138	-86.46588	403.56	407.06	103.5	313.96	303.96	10	1/22/2019
GN-AP-MW-28H	Horizontal Delineation	Middle Knox Dolomite	33.23591	-86.46281	410.53	413.90	103.5	320.53	310.53	10	2/1/2019
GN-AP-MW-23S	Horizontal Delineation	Upper Knox Dolomite	33.22814	-86.47944	426.15	429.15	27.7	411.87	401.87	10	6/10/2016
GN-AP-MW-26	Horizontal Delineation	Upper Knox Dolomite	33.23029	-86.47977	422.45	425.51	24.5	404.23	394.23	10	6/19/2016

Notes:

ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing

(1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.

(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.

(3) Total well depth accounts for sump if data provided on well construction logs.

Southern Company

Table 1b. - Delineation Well Network Details
Plant Gaston Ash Pond

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-27	Horizontal Delineation	Upper Knox Dolomite	33.22815	-86.47972	428.35	428.35	24.5	404.23	394.23	10	--
GN-AP-MW-30H	Horizontal Delineation	Upper Knox Dolomite	33.23854	-86.46124	434.99	437.87	76.7	371.54	361.54	10	9/6/2019

Notes:
ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
(1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
(3) Total well depth accounts for sump if data provided on well construction logs.

Southern Company

Table 1c. - Abandoned Well Network Details
Plant Gaston Ash Pond

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
GN-AP-MW-1	Abandoned	Mid-Lower Knox Dolomite	33.23122	-86.47087	457.72	460.54	199.1	271.82	261.82	10	12/3/2015
GN-AP-MW-2	Abandoned	Middle Knox Dolomite	33.2303	-86.47366	442.81	445.67	126.0	330.04	320.04	10	10/7/2015

Notes:

ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing

(1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.

(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.

(3) Total well depth accounts for sump if data provided on well construction logs.

Southern Company

Table 2. Parameters And Reporting Limits

Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

Appendix III Parameters			
Parameters	**Analytical Methods**	**Reporting Limits**	**Units of Measure**
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-4.06	mg/L
Chloride	SM4500Cl E	1-20	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-50	mg/L
TDS	NA	NA	mg/L
Appendix IV Parameters			
Parameters	**Analytical Methods**	**Reporting Limits**	**Units of Measure**
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.001015	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.8	0.000203-0.001015	mg/L
Selenium	EPA 200.8	0.001015	mg/L
Thallium	EPA 200.8	0.000203	mg/L
Combined Radium 226 + 228	Total Radium Calculation	NA	pCi/L

Notes:
1. Reporting Limit values can display range depending upon matrix interferences and dilution factors
2. pH is a field acquired parameter and does not have a laboratory method or reporting limit
3. Combined Radium 226 + 228 – product of radium-226 + radium-228; reporting limits presented are sum of radium 226, radium 228 reporting limits
4. EPA 200.7 – EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry"
5. EPA 200.8 - EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)"
6. SM 2320, 2540, 4500 – Standard Methods for Examination of Water and Wastewater.
7. Total Radium Calculation – Term used herein for EPA 9315 + EPA 9320
8. EPA 9315 – Used for Radium-226; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods
9. EPA 9320 – Used for Radium-228; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods

Southern Company

Table 3. Groundwater Elevations Summary

Plant Gaston Ash Pond
04/18/2022 - 04/18/2022

Well	Measure Date	TOCElevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GN-AP-MW-3	04/18/2022	447.14	17.77	429.37
GN-AP-MW-4	04/18/2022	440.57	11.68	428.89
GN-AP-MW-5	04/18/2022	431.3	11.08	420.22
GN-AP-MW-6	04/18/2022	427.85	11	416.85
GN-AP-MW-7	04/18/2022	420.02	3.58	416.44
GN-AP-MW-8	04/18/2022	429.63	11.87	417.76
GN-AP-MW-10	04/18/2022	425.69	4.65	421.04
GN-AP-MW-11	04/18/2022	425.39	2.99	422.40
GN-AP-MW-12	04/18/2022	425.22	0	Artesian
GN-AP-MW-13	04/18/2022	424.04	0	Artesian
GN-AP-MW-14	04/18/2022	427.2	27.29	399.91
GN-AP-MW-16	04/18/2022	422.3	22.43	399.87
GN-AP-MW-17	04/18/2022	407.75	4.26	403.49
GN-AP-MW-9	04/18/2022	424.85	4.94	419.91
GN-AP-MW-15R	04/18/2022	438.15	41.77	396.38
GN-AP-MW-16V	04/18/2022	422.88	18.72	404.16
GN-AP-MW-17SV	04/18/2022	406.92	9.33	397.59
GN-AP-MW-17V	04/18/2022	405.25	4.46	400.79
GN-AP-MW-18	04/18/2022	416.13	20.02	396.11
GN-AP-MW-19	04/18/2022	416.16	1.41	414.75
GN-AP-MW-20	04/18/2022	406.65	8.79	397.86
GN-AP-MW-20SV	04/18/2022	405.78	9.31	396.47
GN-AP-MW-20V	04/18/2022	406.25	8.02	398.23
GN-AP-MW-21	04/18/2022	428.25	11.23	417.02
GN-AP-MW-22	04/18/2022	427.11	8.63	418.48
GN-AP-MW-23D	04/18/2022	428.69	8.52	420.17
GN-AP-MW-23S	04/18/2022	429.15	8.73	420.42
GN-AP-MW-26	04/18/2022	425.51	8.9	416.61
GN-AP-MW-28H	04/18/2022	413.9	12.63	401.27
GN-AP-MW-29H	04/18/2022	407.06	4.09	402.97
GN-AP-MW-27	04/18/2022	428.35	7.68	420.67
GN-AP-MW-30H	04/18/2022	437.87	41.61	396.26
GN-AP-MW-31VR	04/18/2022	438.65	42.28	396.37
GN-AP-MW-32V	04/18/2022	453.77	44.71	409.06
GN-AP-MW-33V	04/18/2022	454.29	42.41	411.88
GN-AP-MW-34V	04/18/2022	447.98	45.56	402.42
GN-AP-MW-35V	04/18/2022	449.39	47.86	401.53
GN-AP-MW-36V	04/18/2022	454.37	42.63	411.74
GN-AP-MW-37V	04/18/2022	453.46	44.52	408.94
GN-AP-MW-38	04/18/2022	404.93	5.58	399.35

Notes:
ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing
(1) Artesian = groundwater elevation above top of casing, therefore, cannot

Southern Company

Table 3. Groundwater Elevations Summary

Plant Gaston Ash Pond
04/18/2022 - 04/18/2022

Well	Measure Date	TOCElevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GN-AP-MW-39	04/18/2022	416.71	17.2	399.51
GN-AP-MW-40	04/18/2022	414.32	13.9	400.42
GN-AP-MW-41	04/18/2022	407.28	7.34	399.94
GN-AP-MW-42	04/18/2022	433.01	33.16	399.85

Notes:
ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing
(1) Artesian = groundwater elevation above top of casing, therefore, cannot

Southern Company

Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

GN-AP-MW-5				
Sample Date = 5/3/2022				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Boron	mg/L	0.562	0.565	0.53%
Calcium	mg/L	56.6	48.2	16.03%
Chloride	mg/L	12.8	12.8	0.00%
Sulfate	mg/L	34	33.7	0.89%
Barium	mg/L	0.0219	0.023	4.90%
Molybdenum	mg/L	0.0389	0.0407	4.52%
GN-AP-MW-27				
Sample Date = 5/2/2022				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Boron	mg/L	0.178	0.178	0.00%
Calcium	mg/L	27.8	27.3	1.82%
Chloride	mg/L	13	12.8	1.55%
Sulfate	mg/L	14.9	14.6	2.03%
Barium	mg/L	0.0158	0.0167	5.54%
Molybdenum	mg/L	0.00501	0.00523	4.30%
GN-AP-MW-28H				
Sample Date = 4/27/2022				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Boron	mg/L	0.798	0.796	0.25%
Calcium	mg/L	44.4	44.8	0.90%
Chloride	mg/L	19.8	19.8	0.00%
Sulfate	mg/L	139	135	2.92%
Arsenic	mg/L	0.00278	0.00268	3.66%
Barium	mg/L	0.0318	0.0328	3.10%
Cobalt	mg/L	0.00035	0.00034	1.44%
Lithium	mg/L	0.145	0.143	1.39%
Molybdenum	mg/L	0.487	0.489	0.41%
GN-AP-MW-20SV				
Sample Date = 4/20/2022				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Boron	mg/L	2.91	2.92	0.34%
Calcium	mg/L	136	152	11.11%
Chloride	mg/L	18	17.8	1.12%
Sulfate	mg/L	416	441	5.83%

Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

GN-AP-MW-20SV				
Sample Date = 4/20/2022				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Arsenic	mg/L	0.00226	0.00228	0.88%
Barium	mg/L	0.119	0.12	0.84%
Cobalt	mg/L	0.0005	0.00055	10.27%
Molybdenum	mg/L	0.174	0.174	0.00%
GN-AP-MW-42				
Sample Date = 4/19/2022				
Analyte	**Units**	**Original Result**	**Duplicate Result**	**RPD (%)**
Calcium	mg/L	11	11.3	2.69%
Chloride	mg/L	3.8	3.82	0.53%
Sulfate	mg/L	2.25	2.53	11.72%
Arsenic	mg/L	0.00027	0.00029	8.88%
Barium	mg/L	0.0148	0.0154	3.97%

Notes:
1. The RPD calculations presented are for analyte pairs where original and duplicate results are valid, unqualified detections.
2. RPD calculation results less than or equal to 20% are considered acceptable.
3. Results greater than 20% are given data validation flags to indicate RPD criteria failure. Communication to sampling team and lab may be necessary to explore nature of RPD failure(s).

Table 4b. - Field QC: Blank Detections

Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

Parameters Detected Above MDL					
Sample Date	**QC Location**	**Parameter**	**Blank Concentration**	**Units**	**MDL**
04/20/2022	FB-2	Fluoride	0.0838 J	mg/L	0.06
05/02/2022	FB-5	Chromium	0.00024 J	mg/L	0.0002
04/27/2022	FB-4	Chromium	0.00023 J	mg/L	0.0002
04/20/2022	FB-2	Chromium	0.00022 J	mg/L	0.0002
04/19/2022	FB-1	Chromium	0.00036 J	mg/L	0.0002
04/20/2022	FB-2	Molybdenum	0.00014 J	mg/L	0.0001

Notes:
1. Lab qualifiers have been appended to result when applicable
2. MDL = Method Detection Limit
3. Only Appendix 4 Constituents were compared and validated. Radium data was not validated.
4. mg/L = milligrams per liter

Southern Company

Table 5. Summary of Background Levels and Groundwater Protection

Plant Gaston Ash Pond

Appendix IV Analytes			
Analyte	**Units**	**Background**	**GWPS**
Fluoride	mg/L	0.181	4
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.00105	0.01
Barium	mg/L	0.0283	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.000855	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.00168	0.01
Lead	mg/L	0.00128	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00856	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.000648	0.002
Combined Radium 226 + 228	pCi/L	3	5

Notes:
1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. Background concentrations/limits are used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and ADEM Rule 335-13-15-.06(h).
4. GWPS are generally updated on a 2 year basis which began in the Fall of 2019 (Fall 2019, Fall 2021, etc).

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	ORP mv	Field Temperature C	DO mg/L	pH_Field SU	Turbidity NTU
Upgradient	GN-AP-MW-3	05/03/2022	250.96	61.28	18.83	4.44	7.72	0.71
Upgradient	GN-AP-MW-38	04/19/2022	204.76	54.77	17.51	4.89	7.91	4.81
Upgradient	GN-AP-MW-39	04/19/2022	223.66	9.63	18.45	0.39	6.85	1.02
Upgradient	GN-AP-MW-40	04/19/2022	183.46	67.93	18.27	7.25	7.68	3.86
Upgradient	GN-AP-MW-41	04/19/2022	242.68	99.03	17.22	4.34	6.8	4.09
Upgradient	GN-AP-MW-42	04/19/2022	104.64	90.11	17.79	6.92	6.31	2.87
Downgradient	GN-AP-MW-10	05/02/2022	344.1	-5.43	21.48	1.69	7.12	1.27
Downgradient	GN-AP-MW-11	05/02/2022	375.04	128.99	20.66	3.04	7.16	1.61
Downgradient	GN-AP-MW-12	05/03/2022	463.37	-99.21	21.09	0.45	7.39	1.2
Downgradient	GN-AP-MW-13	05/02/2022	381.94	-113.57	20.11	0.33	7.46	1.73
Downgradient	GN-AP-MW-14	04/27/2022	480.02	-140.65	21.14	0.25	7.07	0.57
Downgradient	GN-AP-MW-15R	05/02/2022	883.92	-20.15	20.19	0.8	7.49	0.84
Downgradient	GN-AP-MW-16	04/27/2022	571.95	-149.34	20.63	0.21	8.17	2.21
Downgradient	GN-AP-MW-17	04/20/2022	1101.12	-152.25	35.34	0.16	9.25	2.26
Downgradient	GN-AP-MW-18	04/26/2022	893.68	36.44	19.31	0.16	6.77	1.09
Downgradient	GN-AP-MW-19	04/19/2022	370.93	-141.28	33.57	1.12	7.63	1.08
Downgradient	GN-AP-MW-20	04/20/2022	861.37	-104.81	33.37	0.33	7.83	1.47
Downgradient	GN-AP-MW-21	05/03/2022	655.26	-95.12	19.13	0.56	7.48	1.17
Downgradient	GN-AP-MW-22	05/03/2022	538.69	66.7	19.33	0.18	7.21	1.17
Downgradient	GN-AP-MW-4	05/02/2022	463.16	64.19	19.58	1.22	6.68	2.74
Downgradient	GN-AP-MW-5	05/03/2022	399.87	93.42	20.1	4.91	7.01	3.52

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	ORP mv	Field Temperature C	DO mg/L	pH_Field SU	Turbidity NTU
Downgradient	GN-AP-MW-6	05/03/2022	635.65	80.91	19.74	0.89	7.63	1.7
Downgradient	GN-AP-MW-7	05/03/2022	541.65	100.46	18.8	0.67	7.53	1.52
Downgradient	GN-AP-MW-8	05/02/2022	493.2	-92.8	19.63	2.92	7.44	1.61
Downgradient	GN-AP-MW-9	05/02/2022	402.93	-106.83	21.2	3.18	7.7	1.36
Vert. Delineation	GN-AP-MW-16V	04/27/2022	527.52	-108.35	18.8	0.91	8.45	0.92
Vert. Delineation	GN-AP-MW-17SV	04/20/2022	771.33	-136.45	35.13	0.01	7.63	1.59
Vert. Delineation	GN-AP-MW-17V	04/26/2022	807.96	-140.8	20.52	2.9	8.39	2.73
Vert. Delineation	GN-AP-MW-20SV	04/20/2022	797.96	-144.81	33.04	0.01	7.1	9.6
Vert. Delineation	GN-AP-MW-20V	04/19/2022	959.32	-188.72	29.38	0.35	8.11	29.8
Vert. Delineation	GN-AP-MW-23D	04/20/2022	581.95	-209.33	19.86	0.69	7.86	2.02
Vert. Delineation	GN-AP-MW-31VR	04/27/2022	496.83	-219.15	21.94	0.62	7.71	0.75
Vert. Delineation	GN-AP-MW-32V	04/26/2022	697.38	-228.97	21.4	0.8	7.84	1.72
Vert. Delineation	GN-AP-MW-33V	04/26/2022	528.67	-172.06	20.24	1.02	7.42	2.97
Vert. Delineation	GN-AP-MW-34V	04/27/2022	995.55	-206.72	18.52	0.61	7.86	1.96
Vert. Delineation	GN-AP-MW-35V	04/27/2022	439.66	-186.99	20.13	0.97	8	0.76
Vert. Delineation	GN-AP-MW-36V	04/26/2022	1201.23	-171.9	19.55	0.86	8.03	2.12
Vert. Delineation	GN-AP-MW-37V	04/26/2022	427.89	-160.44	21.03	0.77	7.9	1.04
Horiz. Delineation	GN-AP-MW-23S	04/20/2022	465.44	1.57	19.41	2.34	6.43	1.23
Horiz. Delineation	GN-AP-MW-26	04/20/2022	566.26	34.09	17.97	3.65	6.87	0.72
Horiz. Delineation	GN-AP-MW-27	05/02/2022	271.43	98.77	19.6	6.2	6.74	2.36
Horiz. Delineation	GN-AP-MW-28H	04/27/2022	452.94	-169.68	21.2	0.18	7.83	1.77

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

Field Parameters								
Hydraulic Location	**Well**	**Sample Date**	**Conductivity uS/cm**	**ORP mv**	**Field Temperature C**	**DO mg/L**	**pH_Field SU**	**Turbidity NTU**
Horiz. Delineation	GN-AP-MW-29H	04/26/2022	567.43	-219.37	21.45	0.52	8.29	1.36
Horiz. Delineation	GN-AP-MW-30H	05/02/2022	723.9	-62.83	19.77	0.46	7.14	1.16

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	GN-AP-MW-3	05/03/2022	<0.03	29.9	1.67	<0.06	7.72	2.16
Upgradient	GN-AP-MW-38	04/19/2022	<0.03	23.3	5.24	<0.06	7.91	2.72
Upgradient	GN-AP-MW-39	04/19/2022	<0.03	36.4	2.22	0.107 J	6.85	11.4
Upgradient	GN-AP-MW-40	04/19/2022	<0.03	21.6	2.03	<0.06	7.68	0.934 J
Upgradient	GN-AP-MW-41	04/19/2022	<0.03	29.4	2.71	<0.06	6.8	1.37 J
Upgradient	GN-AP-MW-42	04/19/2022	<0.03	11	3.8	<0.06	6.31	2.25
Downgradient	GN-AP-MW-10	05/02/2022	0.0352 J	37.8	3.2	<0.06	7.12	4.75
Downgradient	GN-AP-MW-11	05/02/2022	0.324	43.4	6.86	<0.06	7.16	58.3
Downgradient	GN-AP-MW-12	05/03/2022	0.465	65.3	18.9	<0.06	7.39	97
Downgradient	GN-AP-MW-13	05/02/2022	<0.03	44.1	4.32	<0.06	7.46	<0.6
Downgradient	GN-AP-MW-14	04/27/2022	<0.03	85.3	4.1	0.0652 J	7.07	118
Downgradient	GN-AP-MW-15R	05/02/2022	2.36	93.2	79.9	0.08 J	7.49	224
Downgradient	GN-AP-MW-16	04/27/2022	1.47	74.9	35.8	0.0766 J	8.17	191
Downgradient	GN-AP-MW-17	04/20/2022	3.43	240	186	0.128	9.25	444
Downgradient	GN-AP-MW-18	04/26/2022	1.65	149	13.5	<0.06	6.77	216
Downgradient	GN-AP-MW-19	04/19/2022	<0.03	45.6	13.7	<0.06	7.63	27.6
Downgradient	GN-AP-MW-20	04/20/2022	4.49	182	19.9	<0.06	7.83	575
Downgradient	GN-AP-MW-21	05/03/2022	1.61	73	30.6	<0.06	7.48	131
Downgradient	GN-AP-MW-22	05/03/2022	1	64	14.8	0.0819 J	7.21	74.2
Downgradient	GN-AP-MW-4	05/02/2022	0.109	56.8	8.75	<0.06	6.68	11.1
Downgradient	GN-AP-MW-5	05/03/2022	0.562	56.6	12.8	0.0648 J	7.01	34

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix III Set								
Hydraulic Location	**Well**	**Sample Date**	**Boron mg/L**	**Calcium mg/L**	**Chloride mg/L**	**Fluoride mg/L**	**pH_Field SU**	**Sulfate mg/L**
Downgradient	GN-AP-MW-6	05/03/2022	1.81	68.8	26.9	<0.06	7.63	115
Downgradient	GN-AP-MW-7	05/03/2022	1.3	69	12.6	<0.06	7.53	107
Downgradient	GN-AP-MW-8	05/02/2022	0.0313 J	52.4	3.33	0.111 J	7.44	3.02
Downgradient	GN-AP-MW-9	05/02/2022	<0.03	30.9	8.5	0.122 J	7.7	17.9
Vert. Delineation	GN-AP-MW-16V	04/27/2022	1.41	49.3	30.8	<0.06	8.45	173
Vert. Delineation	GN-AP-MW-17SV	04/20/2022	2.61	140	59.6	0.0941 J	7.63	323
Vert. Delineation	GN-AP-MW-17V	04/26/2022	2.13	104	71.5	<0.06	8.39	287
Vert. Delineation	GN-AP-MW-20SV	04/20/2022	2.91	136	18	0.0672 J	7.1	416
Vert. Delineation	GN-AP-MW-20V	04/19/2022	3.07	130	21.9	0.0679 J	8.11	495
Vert. Delineation	GN-AP-MW-23D	04/20/2022	1.46	34.4	56.9	<0.06	7.86	42.6
Vert. Delineation	GN-AP-MW-31VR	04/27/2022	0.124	39.7	22.8	0.39	7.71	24.1
Vert. Delineation	GN-AP-MW-32V	04/26/2022	0.417	68.6	35.9	0.16	7.84	130
Vert. Delineation	GN-AP-MW-33V	04/26/2022	0.129	61.6	18.8	0.177	7.42	36.8
Vert. Delineation	GN-AP-MW-34V	04/27/2022	3	157	19	<0.06	7.86	484
Vert. Delineation	GN-AP-MW-35V	04/27/2022	0.22	54.7	8.01	0.0993 J	8	37.3
Vert. Delineation	GN-AP-MW-36V	04/26/2022	0.162	27.9	137	0.436	8.03	165
Vert. Delineation	GN-AP-MW-37V	04/26/2022	0.434	49.4	14.1	0.152	7.9	91.3
Horiz. Delineation	GN-AP-MW-23S	04/20/2022	0.584	62.9	23.8	<0.06	6.43	40.1
Horiz. Delineation	GN-AP-MW-26	04/20/2022	1.03	73.2	22.3	<0.06	6.87	93.7
Horiz. Delineation	GN-AP-MW-27	05/02/2022	0.178	27.8	13	<0.06	6.74	14.9
Horiz. Delineation	GN-AP-MW-28H	04/27/2022	0.798	44.4	19.8	<0.06	7.83	139
Horiz. Delineation	GN-AP-MW-29H	04/26/2022	1.22	50.9	29.6	<0.06	8.29	180

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix III Set								
Hydraulic Location	**Well**	**Sample Date**	**Boron mg/L**	**Calcium mg/L**	**Chloride mg/L**	**Fluoride mg/L**	**pH_Field SU**	**Sulfate mg/L**
Horiz. Delineation	GN-AP-MW-30H	05/02/2022	0.0502 J	78.8	31.7	0.152	7.14	25.1

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	GN-AP-MW-3	05/03/2022	<0.000508	0.000577	0.0222	<0.000406	<6.8e-005	0.000438 J	<6.8e-005	<0.06
Upgradient	GN-AP-MW-38	04/19/2022	<0.000508	0.000194 J	0.00686	<0.000406	<6.8e-005	0.000662 J	0.000132 J	<0.06
Upgradient	GN-AP-MW-39	04/19/2022	<0.000508	0.000426	0.0279	<0.000406	<6.8e-005	0.000299 J	<6.8e-005	0.107 J
Upgradient	GN-AP-MW-40	04/19/2022	<0.000508	0.000172 J	0.00636	<0.000406	<6.8e-005	0.00106	<6.8e-005	<0.06
Upgradient	GN-AP-MW-41	04/19/2022	<0.000508	0.000138 J	0.0185	<0.000406	<6.8e-005	0.000477 J	8.06e-005 J	<0.06
Upgradient	GN-AP-MW-42	04/19/2022	<0.000508	0.000269	0.0148	<0.000406	0.000187 J	0.000481 J	0.000185 J	<0.06
Downgradient	GN-AP-MW-10	05/02/2022	<0.000508	0.000236	0.0132	<0.000406	<6.8e-005	0.000258 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-11	05/02/2022	<0.000508	0.000177 J	0.00954	<0.000406	<6.8e-005	0.000651 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-12	05/03/2022	<0.000508	0.00223	0.0752	<0.000406	<6.8e-005	<0.000203	0.000219	<0.06
Downgradient	GN-AP-MW-13	05/02/2022	<0.000508	0.000428	0.0414	<0.000406	<6.8e-005	0.000265 J	0.000136 J	<0.06
Downgradient	GN-AP-MW-14	04/27/2022	<0.000508	0.000589	0.0763	<0.000406	<6.8e-005	0.00025 J	<6.8e-005	0.0652 J
Downgradient	GN-AP-MW-15R	05/02/2022	<0.000508	0.000582	0.0561	<0.000406	<6.8e-005	0.000275 J	0.000275	0.08 J
Downgradient	GN-AP-MW-16	04/27/2022	<0.000508	0.00552	0.0514	<0.000406	7.73e-005 J	0.00021 J	0.000704	0.0766 J
Downgradient	GN-AP-MW-17	04/20/2022	0.000684 J	0.0084	0.12	<0.000406	0.000475	0.000371 J	<6.8e-005	0.128
Downgradient	GN-AP-MW-18	04/26/2022	<0.000508	0.00281	0.0515	<0.000406	<6.8e-005	0.000242 J	0.0016	<0.06
Downgradient	GN-AP-MW-19	04/19/2022	<0.000508	0.00215	0.0141	<0.000406	<6.8e-005	0.000298 J	0.000168 J	<0.06
Downgradient	GN-AP-MW-20	04/20/2022	<0.000508	0.00405	0.0554	<0.000406	0.000134 J	0.00186	<6.8e-005	<0.06
Downgradient	GN-AP-MW-21	05/03/2022	<0.000508	0.00141	0.0497	<0.000406	<6.8e-005	<0.000203	0.00116	<0.06
Downgradient	GN-AP-MW-22	05/03/2022	<0.000508	0.000153 J	0.0276	<0.000406	<6.8e-005	0.00026 J	0.000146 J	0.0819 J
Downgradient	GN-AP-MW-4	05/02/2022	<0.000508	0.000162 J	0.0153	<0.000406	<6.8e-005	0.000738 J	<6.8e-005	<0.06

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Upgradient	GN-AP-MW-3	05/03/2022	<6.8e-005	<0.007105	<0.0003	0.00439	<0.000508	0.000358	0.822 U
Upgradient	GN-AP-MW-38	04/19/2022	9.59e-005 J	<0.007105	<0.0003	0.0002 J	<0.000508	<6.8e-005	0.024 U
Upgradient	GN-AP-MW-39	04/19/2022	<6.8e-005	<0.007105	<0.0003	0.000738	<0.000508	<6.8e-005	1.02
Upgradient	GN-AP-MW-40	04/19/2022	<6.8e-005	<0.007105	<0.0003	0.000115 J	<0.000508	<6.8e-005	0.455 U
Upgradient	GN-AP-MW-41	04/19/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.392 U
Upgradient	GN-AP-MW-42	04/19/2022	7.46e-005 J	<0.007105	<0.0003	0.000132 J	<0.000508	8.56e-005 J	0.853 U
Downgradient	GN-AP-MW-10	05/02/2022	<6.8e-005	<0.007105	<0.0003	0.000212	0.000548 J	<6.8e-005	0.349 U
Downgradient	GN-AP-MW-11	05/02/2022	<6.8e-005	<0.007105	<0.0003	0.000376	<0.000508	<6.8e-005	0.355 U
Downgradient	GN-AP-MW-12	05/03/2022	<6.8e-005	<0.007105	<0.0003	0.000331	<0.000508	<6.8e-005	1.09 U
Downgradient	GN-AP-MW-13	05/02/2022	<6.8e-005	<0.007105	<0.0003	0.000302	<0.000508	<6.8e-005	0.412 U
Downgradient	GN-AP-MW-14	04/27/2022	<6.8e-005	<0.007105	<0.0003	0.000515	<0.000508	<6.8e-005	0.753 U
Downgradient	GN-AP-MW-15R	05/02/2022	<6.8e-005	0.0278	<0.0003	0.144	<0.000508	<6.8e-005	1.14 U
Downgradient	GN-AP-MW-16	04/27/2022	<6.8e-005	0.127	<0.0003	0.519	<0.000508	<6.8e-005	4.33
Downgradient	GN-AP-MW-17	04/20/2022	<6.8e-005	1.02	<0.0003	2.99	<0.000508	7.85e-005 J	1.12 U
Downgradient	GN-AP-MW-18	04/26/2022	<6.8e-005	0.0464	<0.0003	0.0598	<0.000508	0.000439	1.34
Downgradient	GN-AP-MW-19	04/19/2022	0.000191 J	<0.007105	<0.0003	0.0146	<0.000508	<6.8e-005	0.66 U
Downgradient	GN-AP-MW-20	04/20/2022	<6.8e-005	0.119	<0.0003	0.84	<0.000508	<6.8e-005	1.49
Downgradient	GN-AP-MW-21	05/03/2022	<6.8e-005	<0.007105	<0.0003	0.0116	<0.000508	<6.8e-005	0.435 U
Downgradient	GN-AP-MW-22	05/03/2022	<6.8e-005	<0.007105	<0.0003	0.0342	<0.000508	<6.8e-005	0.617 U
Downgradient	GN-AP-MW-4	05/02/2022	<6.8e-005	<0.007105	<0.0003	0.000296	<0.000508	<6.8e-005	0.658 U

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Downgradient	GN-AP-MW-5	05/03/2022	<0.000508	0.000154 J	0.0219	<0.000406	<6.8e-005	0.000335 J	8.85e-005 J	0.0648 J
Downgradient	GN-AP-MW-6	05/03/2022	<0.000508	0.000151 J	0.0232	<0.000406	<6.8e-005	0.000304 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-7	05/03/2022	<0.000508	0.000163 J	0.0191	<0.000406	<6.8e-005	0.000349 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-8	05/02/2022	<0.000508	0.00107	0.0188	<0.000406	<6.8e-005	0.000311 J	<6.8e-005	0.111 J
Downgradient	GN-AP-MW-9	05/02/2022	<0.000508	0.00225	0.114	<0.000406	<6.8e-005	0.000292 J	<6.8e-005	0.122 J
Vert. Delineation	GN-AP-MW-16V	04/27/2022	<0.000508	0.00114	0.0557	<0.000406	0.000123 J	0.000246 J	0.000985	<0.06
Vert. Delineation	GN-AP-MW-17SV	04/20/2022	<0.000508	0.00183	0.0906	<0.000406	0.000175 J	0.000268 J	0.00247	0.0941 J
Vert. Delineation	GN-AP-MW-17V	04/26/2022	<0.000508	0.00112	0.0551	<0.000406	0.000314	0.000238 J	6.96e-005 J	<0.06
Vert. Delineation	GN-AP-MW-20SV	04/20/2022	<0.000508	0.00226	0.119	<0.000406	<6.8e-005	0.000241 J	0.000499	0.0672 J
Vert. Delineation	GN-AP-MW-20V	04/19/2022	<0.000508	0.00298	0.0323	<0.000406	8.86e-005 J	0.00174	0.000332	0.0679 J
Vert. Delineation	GN-AP-MW-23D	04/20/2022	<0.000508	0.00196	0.0399	<0.000406	<6.8e-005	0.000293 J	<6.8e-005	<0.06
Vert. Delineation	GN-AP-MW-31VR	04/27/2022	<0.000508	0.00989	0.0289	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.39
Vert. Delineation	GN-AP-MW-32V	04/26/2022	<0.000508	0.00528	0.0584	<0.000406	<6.8e-005	0.000203 J	<6.8e-005	0.16
Vert. Delineation	GN-AP-MW-33V	04/26/2022	<0.000508	0.0135	0.0461	<0.000406	<6.8e-005	0.000324 J	7.56e-005 J	0.177
Vert. Delineation	GN-AP-MW-34V	04/27/2022	<0.000508	0.00339	0.0349	<0.000406	<6.8e-005	<0.000203	<6.8e-005	<0.06
Vert. Delineation	GN-AP-MW-35V	04/27/2022	<0.000508	0.00212	0.017	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.0993 J
Vert. Delineation	GN-AP-MW-36V	04/26/2022	<0.000508	0.00212	0.0799	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.436
Vert. Delineation	GN-AP-MW-37V	04/26/2022	<0.000508	0.000726	0.0353	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.152
Horiz. Delineation	GN-AP-MW-23S	04/20/2022	<0.000508	0.000276	0.0279	<0.000406	<6.8e-005	0.000256 J	<6.8e-005	<0.06
Horiz. Delineation	GN-AP-MW-26	04/20/2022	<0.000508	0.000116 J	0.0171	<0.000406	<6.8e-005	0.000377 J	<6.8e-005	<0.06

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Downgradient	GN-AP-MW-5	05/03/2022	0.000102 J	<0.007105	<0.0003	0.0389	<0.000508	<6.8e-005	0.958 U
Downgradient	GN-AP-MW-6	05/03/2022	<6.8e-005	0.0178 J	<0.0003	0.00912	<0.000508	<6.8e-005	0.478 U
Downgradient	GN-AP-MW-7	05/03/2022	<6.8e-005	<0.007105	<0.0003	0.000237	<0.000508	<6.8e-005	0.596 U
Downgradient	GN-AP-MW-8	05/02/2022	<6.8e-005	<0.007105	<0.0003	0.00107	<0.000508	<6.8e-005	0.465 U
Downgradient	GN-AP-MW-9	05/02/2022	<6.8e-005	<0.007105	<0.0003	0.0012	<0.000508	<6.8e-005	0.891
Vert. Delineation	GN-AP-MW-16V	04/27/2022	<6.8e-005	0.339	<0.0003	0.694	<0.000508	0.000601	2.56
Vert. Delineation	GN-AP-MW-17SV	04/20/2022	<6.8e-005	0.233	<0.0003	1.17	<0.000508	0.000268	1.72
Vert. Delineation	GN-AP-MW-17V	04/26/2022	<6.8e-005	0.505	<0.0003	2.06	<0.000508	<6.8e-005	11.6
Vert. Delineation	GN-AP-MW-20SV	04/20/2022	<6.8e-005	0.00728 J	<0.0003	0.174	<0.000508	<6.8e-005	2.27
Vert. Delineation	GN-AP-MW-20V	04/19/2022	0.00115	0.0416	<0.0003	0.338	<0.000508	<6.8e-005	3.27
Vert. Delineation	GN-AP-MW-23D	04/20/2022	<6.8e-005	<0.007105	<0.0003	0.00098	<0.000508	<6.8e-005	0.757 U
Vert. Delineation	GN-AP-MW-31VR	04/27/2022	<6.8e-005	<0.007105	<0.0003	0.0199	<0.000508	<6.8e-005	0.735 U
Vert. Delineation	GN-AP-MW-32V	04/26/2022	<6.8e-005	0.0637	<0.0003	0.0332	<0.000508	<6.8e-005	1.83
Vert. Delineation	GN-AP-MW-33V	04/26/2022	<6.8e-005	0.0711	<0.0003	0.0292	<0.000508	<6.8e-005	1.21
Vert. Delineation	GN-AP-MW-34V	04/27/2022	<6.8e-005	0.036	<0.0003	0.286	<0.000508	<6.8e-005	1.22
Vert. Delineation	GN-AP-MW-35V	04/27/2022	<6.8e-005	<0.007105	<0.0003	0.0128	<0.000508	<6.8e-005	1 U
Vert. Delineation	GN-AP-MW-36V	04/26/2022	<6.8e-005	0.018 J	<0.0003	0.0459	<0.000508	<6.8e-005	1.32
Vert. Delineation	GN-AP-MW-37V	04/26/2022	<6.8e-005	0.0446	<0.0003	0.176	<0.000508	<6.8e-005	4.41
Horiz. Delineation	GN-AP-MW-23S	04/20/2022	<6.8e-005	<0.007105	<0.0003	0.0172	<0.000508	<6.8e-005	0.419 U
Horiz. Delineation	GN-AP-MW-26	04/20/2022	<6.8e-005	<0.007105	<0.0003	0.00235	<0.000508	<6.8e-005	0 U

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Horiz. Delineation	GN-AP-MW-27	05/02/2022	<0.000508	0.000221	0.0158	<0.000406	<6.8e-005	0.000274 J	<6.8e-005	<0.06
Horiz. Delineation	GN-AP-MW-28H	04/27/2022	<0.000508	0.00278	0.0318	<0.000406	<6.8e-005	0.000362 J	0.000349	<0.06
Horiz. Delineation	GN-AP-MW-29H	04/26/2022	<0.000508	0.0021	0.0604	<0.000406	0.000132 J	0.000242 J	<6.8e-005	<0.06
Horiz. Delineation	GN-AP-MW-30H	05/02/2022	<0.000508	0.00548	0.0734	<0.000406	<6.8e-005	0.000211 J	0.00125	0.152

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Horiz. Delineation	GN-AP-MW-27	05/02/2022	<6.8e-005	<0.007105	<0.0003	0.00501	<0.000508	<6.8e-005	0.305 U
Horiz. Delineation	GN-AP-MW-28H	04/27/2022	9.61e-005 J	0.145	<0.0003	0.487	<0.000508	0.000205	5.85
Horiz. Delineation	GN-AP-MW-29H	04/26/2022	<6.8e-005	0.309	<0.0003	1.06	<0.000508	<6.8e-005	17.9
Horiz. Delineation	GN-AP-MW-30H	05/02/2022	<6.8e-005	<0.007105	<0.0003	0.00195	<0.000508	<6.8e-005	0.758 U

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Manganese Total mg/L	Carbon, Total Organic mg/L	Chloride mg/L	Carbonate Alkalinity as CaCO3 mg/L	Aluminum mg/L	Magnesium Total mg/L	Calcium mg/L
Upgradient	GN-AP-MW-3	05/03/2022	0	0.00126	<1	1.67	1.69	0.0288	17.4	29.9
Upgradient	GN-AP-MW-38	04/19/2022	0	0.005	<1	5.24	1.69	0.214	13.2	23.3
Upgradient	GN-AP-MW-39	04/19/2022	0	0.0593	<1	2.22	1.15	0.012	6.63	36.4
Upgradient	GN-AP-MW-40	04/19/2022	0	0.00885	<1	2.03	1.49	0.0861	12.5	21.6
Upgradient	GN-AP-MW-41	04/19/2022	0	0.0121	<1	2.71	1.82	0.0944	16.7	29.4
Upgradient	GN-AP-MW-42	04/19/2022	0	0.0534	<1	3.8	-10000	0.0516	6.76	11
Downgradient	GN-AP-MW-10	05/02/2022	0	0.00159	<1	3.2	2.99	<0.00609	21.5	37.8
Downgradient	GN-AP-MW-11	05/02/2022	0	0.000177 J	<1	6.86	1.78	<0.00609	22.3	43.4
Downgradient	GN-AP-MW-12	05/03/2022	0	0.104	<1	18.9	1.76	<0.00609	37.6	65.3
Downgradient	GN-AP-MW-13	05/02/2022	0	0.112	<1	4.32	2.63	0.00775 J	24.2	44.1
Downgradient	GN-AP-MW-14	04/27/2022	0	0.0714	<1	4.1	0.772	<0.00609	29.6	85.3
Downgradient	GN-AP-MW-15R	05/02/2022	0	0.284	<1	79.9	0.575	<0.00609	27.9	93.2
Downgradient	GN-AP-MW-16	04/27/2022	0	0.444	<1	35.8	-10000	0.0262	9.58	74.9
Downgradient	GN-AP-MW-17	04/20/2022	0	0.0151	1.17 J	186	3.39	0.079	10.2	240
Downgradient	GN-AP-MW-18	04/26/2022	0	0.651	<1	13.5	2.56	<0.00609	57.7	149
Downgradient	GN-AP-MW-19	04/19/2022	0	0.0131	<1	13.7	1.91	<0.00609	22.4	45.6
Downgradient	GN-AP-MW-20	04/20/2022	0	0.00307	<1	19.9	-10000	<0.00609	55.2	182
Downgradient	GN-AP-MW-21	05/03/2022	0	0.15	<1	30.6	1.93	<0.00609	27.7	73
Downgradient	GN-AP-MW-22	05/03/2022	0	0.0689	<1	14.8	0.668	<0.00609	24.4	64
Downgradient	GN-AP-MW-4	05/02/2022	0	0.00692	<1	8.75	1.57	0.0289	31	56.8

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Iron Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Sodium mg/L	Silica mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Alkalinity Total as CaCO3 mg/L
Upgradient	GN-AP-MW-3	05/03/2022	<0.00812	0.241 J	0.243 J	2.16	2.23	7.92	153	155
Upgradient	GN-AP-MW-38	04/19/2022	0.056	<0.169505	0.843	2.72	3.47	6.25	108	110
Upgradient	GN-AP-MW-39	04/19/2022	0.335	0.362 J	<0.2	11.4	3.6	11.4	131	132
Upgradient	GN-AP-MW-40	04/19/2022	0.0279 J	0.276 J	0.751	0.934 J	1.03	7.51	109	111
Upgradient	GN-AP-MW-41	04/19/2022	0.0293 J	0.381 J	0.441	1.37 J	0.946	6.55	150	152
Upgradient	GN-AP-MW-42	04/19/2022	0.0169 J	0.261 J	0.863	2.25	2.93	7.49	56.7	57.1
Downgradient	GN-AP-MW-10	05/02/2022	<0.00812	0.202 J	0.201 J	4.75	2.47	8.82	183	186
Downgradient	GN-AP-MW-11	05/02/2022	<0.00812	0.201 J	0.884	58.3	5.7	9.01	134	136
Downgradient	GN-AP-MW-12	05/03/2022	0.37	0.292 J	<0.2	97	10.1	9.05	210	212
Downgradient	GN-AP-MW-13	05/02/2022	0.351	0.287 J	<0.2	<0.6	4.58	8.84	267	270
Downgradient	GN-AP-MW-14	04/27/2022	0.67	0.594	<0.2	118	19.1	10.8	291	292
Downgradient	GN-AP-MW-15R	05/02/2022	0.0792	6.06	<0.2	224	52.6	6.63	94.8	95.4
Downgradient	GN-AP-MW-16	04/27/2022	0.0877	14.5	<0.2	191	23.3	5.03	32.8	33.2
Downgradient	GN-AP-MW-17	04/20/2022	<0.00812	38.6	<0.2	444	42.1	5.41	17.3	21.7
Downgradient	GN-AP-MW-18	04/26/2022	0.318	3.02	<0.2	216	10.7	9.22	327	330
Downgradient	GN-AP-MW-19	04/19/2022	0.552	0.353 J	<0.2	27.6	14.3	8.67	208	210
Downgradient	GN-AP-MW-20	04/20/2022	0.0147 J	5.68	<0.2	575	27	5.95	54.4	54.9
Downgradient	GN-AP-MW-21	05/03/2022	0.352	2.2	<0.2	131	20.5	6.36	142	144
Downgradient	GN-AP-MW-22	05/03/2022	0.00968 J	2.14	0.617	74.2	11.6	6.72	191	192
Downgradient	GN-AP-MW-4	05/02/2022	0.0224 J	0.699	<0.2	11.1	6.48	9.74	270	272

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters			
Hydraulic Location	**Well**	**Sample Date**	**Silicon mg/L**
Upgradient	GN-AP-MW-3	05/03/2022	3.7
Upgradient	GN-AP-MW-38	04/19/2022	2.92
Upgradient	GN-AP-MW-39	04/19/2022	5.35
Upgradient	GN-AP-MW-40	04/19/2022	3.51
Upgradient	GN-AP-MW-41	04/19/2022	3.06
Upgradient	GN-AP-MW-42	04/19/2022	3.5
Downgradient	GN-AP-MW-10	05/02/2022	4.12
Downgradient	GN-AP-MW-11	05/02/2022	4.21
Downgradient	GN-AP-MW-12	05/03/2022	4.23
Downgradient	GN-AP-MW-13	05/02/2022	4.13
Downgradient	GN-AP-MW-14	04/27/2022	5.06
Downgradient	GN-AP-MW-15R	05/02/2022	3.1
Downgradient	GN-AP-MW-16	04/27/2022	2.35
Downgradient	GN-AP-MW-17	04/20/2022	2.53
Downgradient	GN-AP-MW-18	04/26/2022	4.31
Downgradient	GN-AP-MW-19	04/19/2022	4.05
Downgradient	GN-AP-MW-20	04/20/2022	2.78
Downgradient	GN-AP-MW-21	05/03/2022	2.97
Downgradient	GN-AP-MW-22	05/03/2022	3.14
Downgradient	GN-AP-MW-4	05/02/2022	4.55

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Manganese Total mg/L	Carbon, Total Organic mg/L	Chloride mg/L	Carbonate Alkalinity as CaCO3 mg/L	Aluminum mg/L	Magnesium Total mg/L	Calcium mg/L
Downgradient	GN-AP-MW-5	05/03/2022	0	0.00115	<1	12.8	2.33	0.103	21.8	56.6
Downgradient	GN-AP-MW-6	05/03/2022	0	0.00409	<1	26.9	1.83	0.0245	28.2	68.8
Downgradient	GN-AP-MW-7	05/03/2022	0	0.0011	<1	12.6	2.13	0.0116	23.1	69
Downgradient	GN-AP-MW-8	05/02/2022	1	0.0227	1.63 J	3.33	1.75	<0.00609	26.3	52.4
Downgradient	GN-AP-MW-9	05/02/2022	0	0.125	<1	8.5	1.19	<0.00609	15.2	30.9
Vert. Delineation	GN-AP-MW-16V	04/27/2022	0	0.0134	<1	30.8	0.964	0.012	14.6	49.3
Vert. Delineation	GN-AP-MW-17SV	04/20/2022	0	0.703	<1	59.6	-10000	0.00789 J	21.1	140
Vert. Delineation	GN-AP-MW-17V	04/26/2022	0	0.00733	<1	71.5	1.11	0.0176	29.3	104
Vert. Delineation	GN-AP-MW-20SV	04/20/2022	0	0.17	<1	18	0.666	<0.00609	50.3	136
Vert. Delineation	GN-AP-MW-20V	04/19/2022	0	0.017	<1	21.9	0.865	0.918	68.6	130
Vert. Delineation	GN-AP-MW-23D	04/20/2022	4	0.00689	1.44 J	56.9	1.93	0.0121	49	34.4
Vert. Delineation	GN-AP-MW-31VR	04/27/2022	2	0.0371	4.29	22.8	2.84	0.00994 J	23.5	39.7
Vert. Delineation	GN-AP-MW-32V	04/26/2022	3	0.136	2.3	35.9	1.37	0.011	25	68.6
Vert. Delineation	GN-AP-MW-33V	04/26/2022	1	0.122	5.59	18.8	1.2	0.0161	22	61.6
Vert. Delineation	GN-AP-MW-34V	04/27/2022	3	0.0628	1.8 J	19	1.04	0.0127	80.7	157
Vert. Delineation	GN-AP-MW-35V	04/27/2022	1	0.104	1.29 J	8.01	3.47	0.00984 J	25.3	54.7
Vert. Delineation	GN-AP-MW-36V	04/26/2022	3	0.0383	5.68	137	3.93	0.0137	21.3	27.9
Vert. Delineation	GN-AP-MW-37V	04/26/2022	0	0.00632	1.31 J	14.1	1.74	<0.00609	19.9	49.4
Horiz. Delineation	GN-AP-MW-23S	04/20/2022	0	0.00144	<1	23.8	1.14	0.011	24.2	62.9
Horiz. Delineation	GN-AP-MW-26	04/20/2022	0	0.000633	<1	22.3	2.21	0.00625 J	30.4	73.2

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Iron Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Sodium mg/L	Silica mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Alkalinity Total as CaCO3 mg/L
Downgradient	GN-AP-MW-5	05/03/2022	0.0377 J	2.16	0.903	34	8.62	8.02	176	178
Downgradient	GN-AP-MW-6	05/03/2022	0.0177 J	2.18	0.795	115	18.9	6.81	158	160
Downgradient	GN-AP-MW-7	05/03/2022	0.0104 J	3.06	0.33	107	10.2	6.85	172	174
Downgradient	GN-AP-MW-8	05/02/2022	0.455	0.344 J	<0.2	3.02	16.9	10.1	282	284
Downgradient	GN-AP-MW-9	05/02/2022	0.248	0.503 J	<0.2	17.9	35.6	10.1	196	197
Vert. Delineation	GN-AP-MW-16V	04/27/2022	0.0118 J	17.6	<0.2	173	25.6	3.81	36.4	37.5
Vert. Delineation	GN-AP-MW-17SV	04/20/2022	0.394	20.1	<0.2	323	37.5	5.97	42.3	42.5
Vert. Delineation	GN-AP-MW-17V	04/26/2022	0.069	30	<0.2	287	39.1	3.27	44.8	46.1
Vert. Delineation	GN-AP-MW-20SV	04/20/2022	8	0.776	<0.2	416	15.8	15.3	107	108
Vert. Delineation	GN-AP-MW-20V	04/19/2022	0.499	0.529	<0.2	495	18.5	7.77	73.1	74
Vert. Delineation	GN-AP-MW-23D	04/20/2022	0.019 J	4.43	<0.2	42.6	24.8	11.1	210	212
Vert. Delineation	GN-AP-MW-31VR	04/27/2022	0.0443	1.36	<0.2	24.1	51.9	10.6	240	243
Vert. Delineation	GN-AP-MW-32V	04/26/2022	0.0273 J	4.27	<0.2	130	68.8	13.5	216	217
Vert. Delineation	GN-AP-MW-33V	04/26/2022	0.136	4.26	<0.2	36.8	40	13.2	300	301
Vert. Delineation	GN-AP-MW-34V	04/27/2022	0.338	0.579	<0.2	484	33.9	9.12	92.2	93.3
Vert. Delineation	GN-AP-MW-35V	04/27/2022	0.0729	0.846	<0.2	37.3	23.1	14.4	207	211
Vert. Delineation	GN-AP-MW-36V	04/26/2022	0.0308 J	47	<0.2	165	181	7.08	289	293
Vert. Delineation	GN-AP-MW-37V	04/26/2022	0.115	2.45	<0.2	91.3	22.7	7.02	125	127
Horiz. Delineation	GN-AP-MW-23S	04/20/2022	<0.00812	0.982	0.832	40.1	10.3	6.06	184	185
Horiz. Delineation	GN-AP-MW-26	04/20/2022	<0.00812	1.04	1.46	93.7	16.7	7.23	196	198

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters			
Hydraulic Location	**Well**	**Sample Date**	**Silicon mg/L**
Downgradient	GN-AP-MW-5	05/03/2022	3.75
Downgradient	GN-AP-MW-6	05/03/2022	3.18
Downgradient	GN-AP-MW-7	05/03/2022	3.2
Downgradient	GN-AP-MW-8	05/02/2022	4.73
Downgradient	GN-AP-MW-9	05/02/2022	4.71
Vert. Delineation	GN-AP-MW-16V	04/27/2022	1.78
Vert. Delineation	GN-AP-MW-17SV	04/20/2022	2.79
Vert. Delineation	GN-AP-MW-17V	04/26/2022	1.53
Vert. Delineation	GN-AP-MW-20SV	04/20/2022	7.16
Vert. Delineation	GN-AP-MW-20V	04/19/2022	3.63
Vert. Delineation	GN-AP-MW-23D	04/20/2022	5.17
Vert. Delineation	GN-AP-MW-31VR	04/27/2022	4.93
Vert. Delineation	GN-AP-MW-32V	04/26/2022	6.29
Vert. Delineation	GN-AP-MW-33V	04/26/2022	6.16
Vert. Delineation	GN-AP-MW-34V	04/27/2022	4.26
Vert. Delineation	GN-AP-MW-35V	04/27/2022	6.74
Vert. Delineation	GN-AP-MW-36V	04/26/2022	3.31
Vert. Delineation	GN-AP-MW-37V	04/26/2022	3.28
Horiz. Delineation	GN-AP-MW-23S	04/20/2022	2.83
Horiz. Delineation	GN-AP-MW-26	04/20/2022	3.38

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Manganese Total mg/L	Carbon, Total Organic mg/L	Chloride mg/L	Carbonate Alkalinity as CaCO3 mg/L	Aluminum mg/L	Magnesium Total mg/L	Calcium mg/L
Horiz. Delineation	GN-AP-MW-27	05/02/2022	0	0.00334	<1	13	0.215	0.0381	14.7	27.8
Horiz. Delineation	GN-AP-MW-28H	04/27/2022	0	0.0131	<1	19.8	1.08	0.117	18.3	44.4
Horiz. Delineation	GN-AP-MW-29H	04/26/2022	0	0.00288	<1	29.6	0.641	0.00925 J	19.5	50.9
Horiz. Delineation	GN-AP-MW-30H	05/02/2022	0	0.24	1.55 J	31.7	0.72	<0.00609	40.5	78.8

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Southern Company

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Iron Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Sodium mg/L	Silica mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Alkalinity Total as CaCO3 mg/L
Horiz. Delineation	GN-AP-MW-27	05/02/2022	0.0762	0.697	1.1	14.9	7.51	7.75	126	126
Horiz. Delineation	GN-AP-MW-28H	04/27/2022	0.0664	10.7	<0.2	139	21.1	4.99	58.9	60.1
Horiz. Delineation	GN-AP-MW-29H	04/26/2022	0.0555	15.3	<0.2	180	28.7	4.56	51.7	52.4
Horiz. Delineation	GN-AP-MW-30H	05/02/2022	0.853	0.785	<0.2	25.1	30.6	13.1	342	343

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

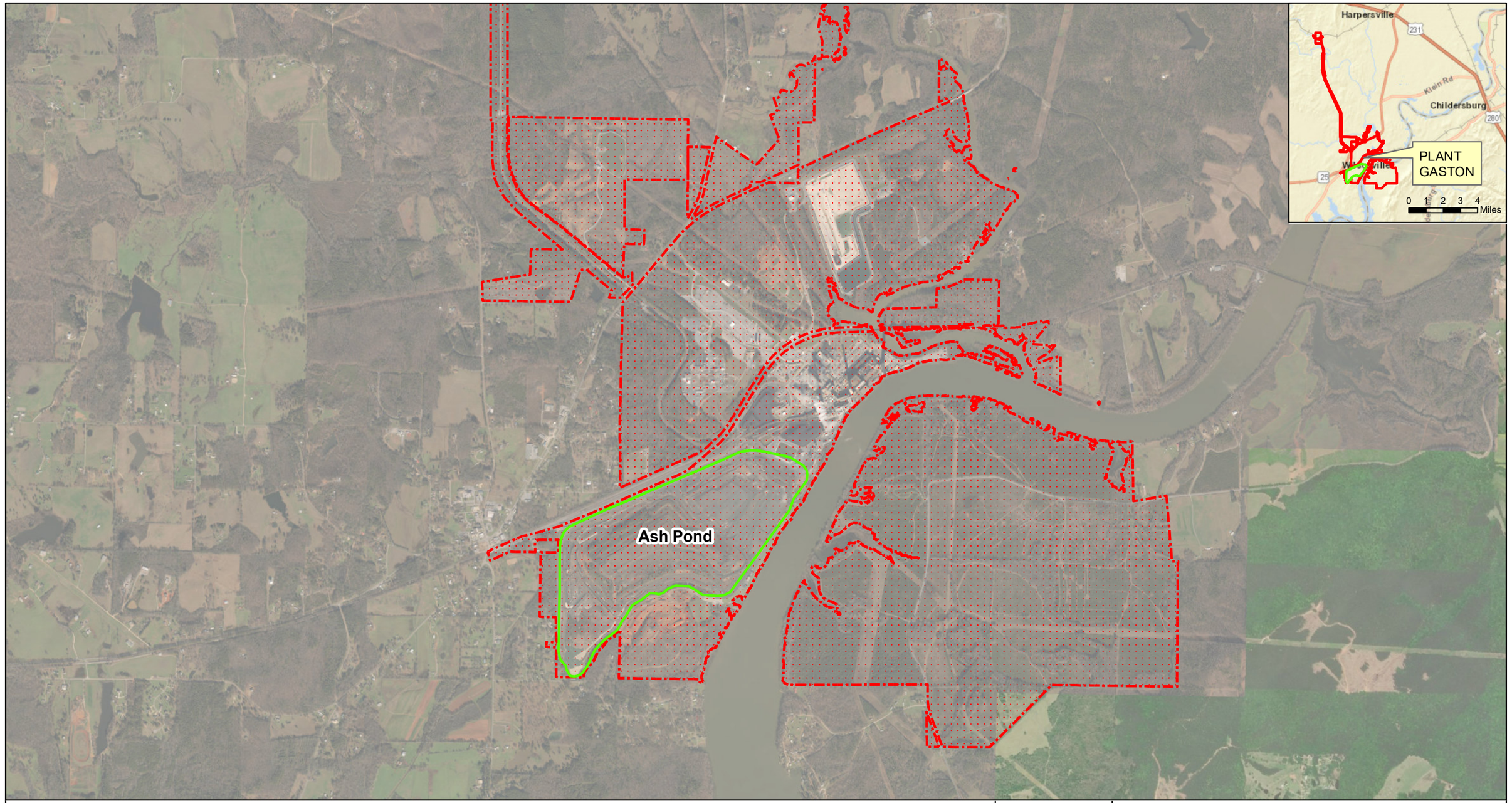
Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
04/19/2022 - 05/03/2022

General Chemistry and MNA Parameters			
Hydraulic Location	**Well**	**Sample Date**	**Silicon mg/L**
Horiz. Delineation	GN-AP-MW-27	05/02/2022	3.62
Horiz. Delineation	GN-AP-MW-28H	04/27/2022	2.33
Horiz. Delineation	GN-AP-MW-29H	04/26/2022	2.13
Horiz. Delineation	GN-AP-MW-30H	05/02/2022	6.14

Notes:
1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is 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 measurment.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocurries per liter.

Figures



Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

N

0 1,000 2,000 4,000 6,000 8,000 Feet

SCALE	1:24000
DATE	10/26/2020
DRAWN BY	KAR
CHECKED BY	GBD

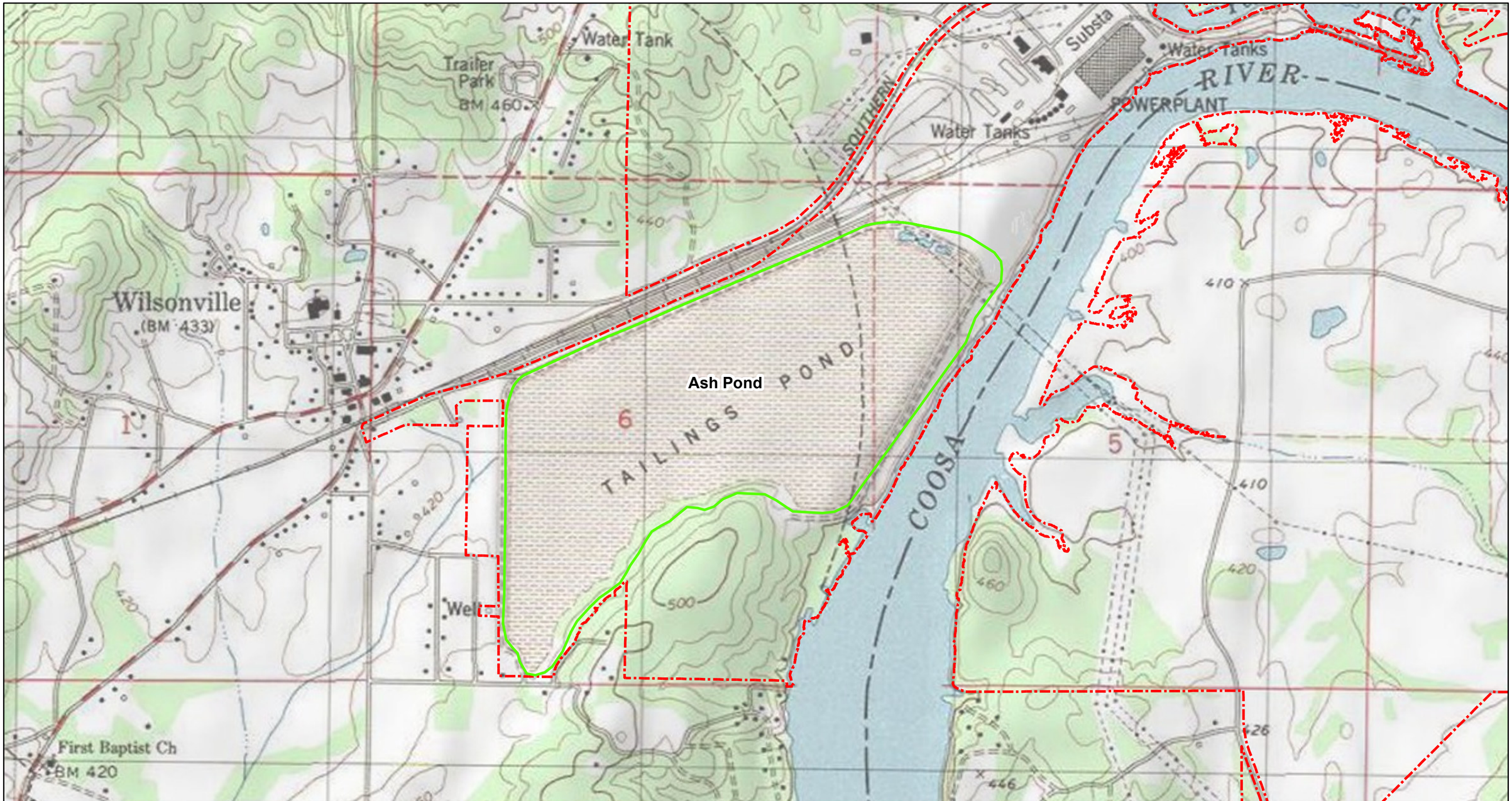
DRAWING TITLE

SITE LOCATION MAP
PLANT GASTON ASH POND

FIGURE NO

FIGURE 1

Southern Company



Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

SCALE	1:12000
DATE	10/26/2020
DRAWN BY	KAR
CHECKED BY	GBD

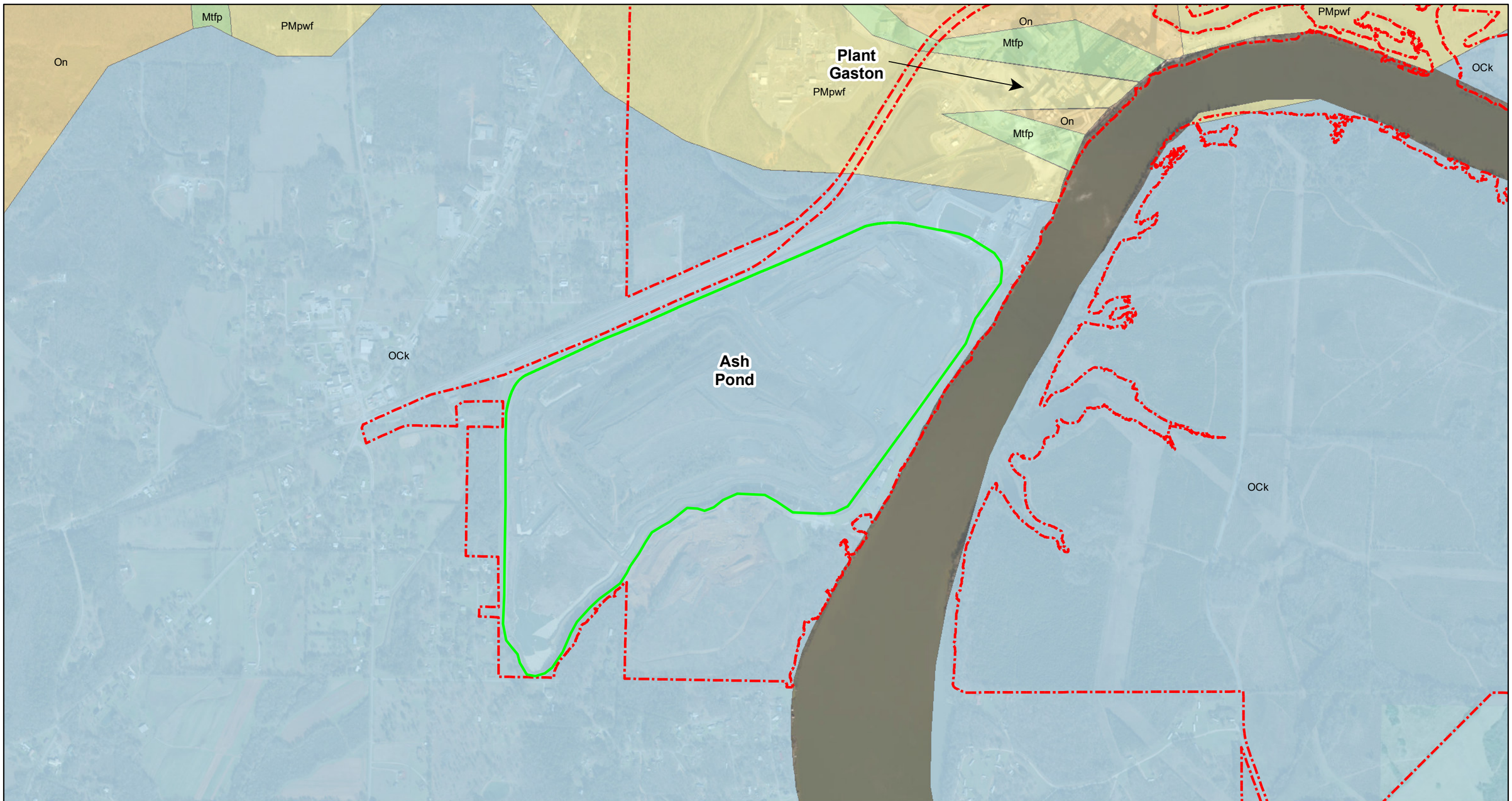
DRAWING TITLE

SITE TOPOGRAPHIC MAP
PLANT GASTON ASH POND

FIGURE NO

FIGURE 2

Southern Company



Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

Geologic Units

- Knox Group undifferentiated (OCk)
- Newala Limestone (On)
- Parkwood Formation and Floyd Shale undifferentiated (PMpwf)
- Tuscumbia Limestone and Fort Payne Chert undifferentiated (Mtfp)

N

0 1,000 2,000 4,000 Feet

SCALE	1:12000
DATE	10/27/2020
DRAWN BY	KWR
CHECKED BY	GBD

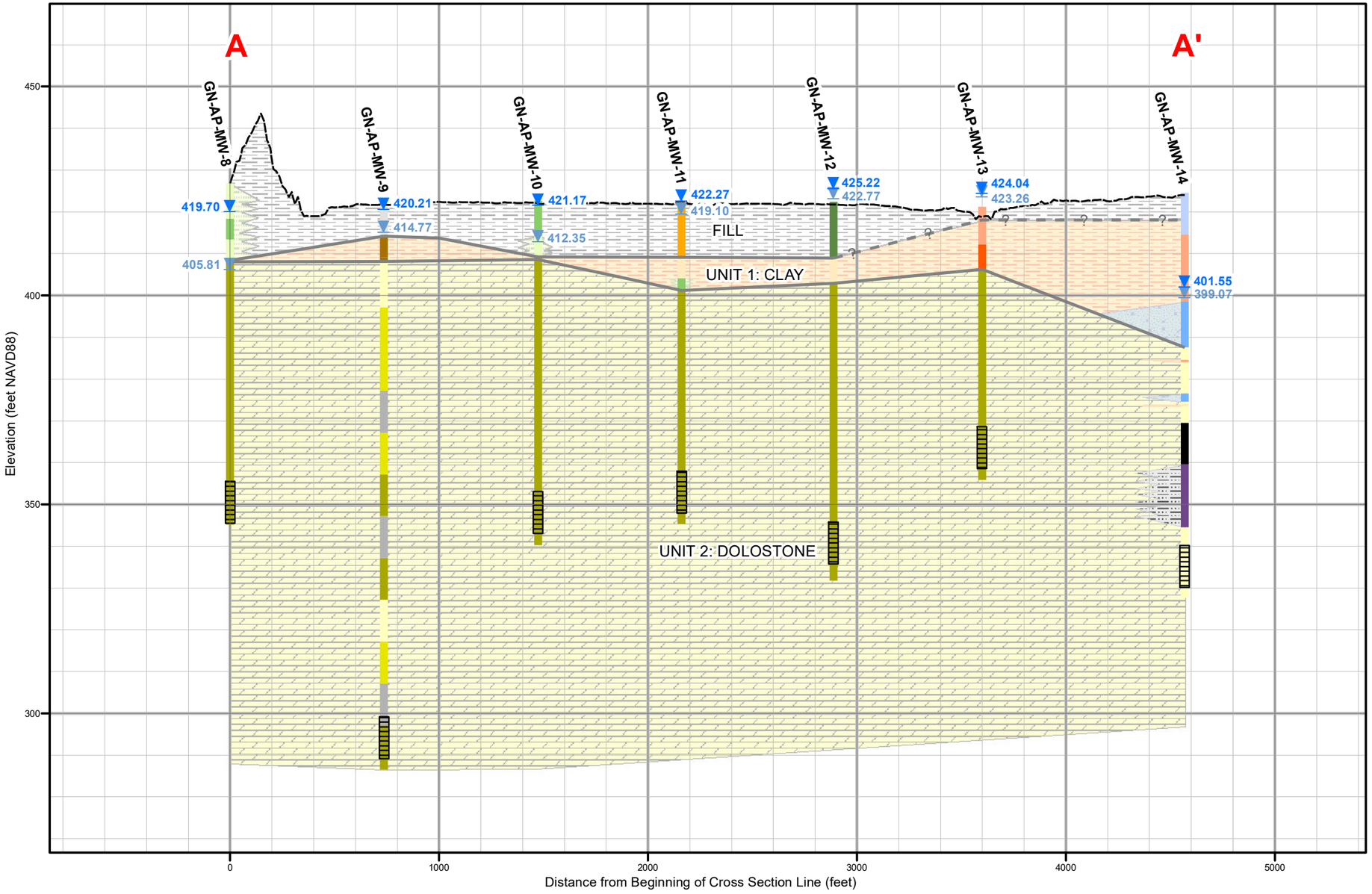
DRAWING TITLE

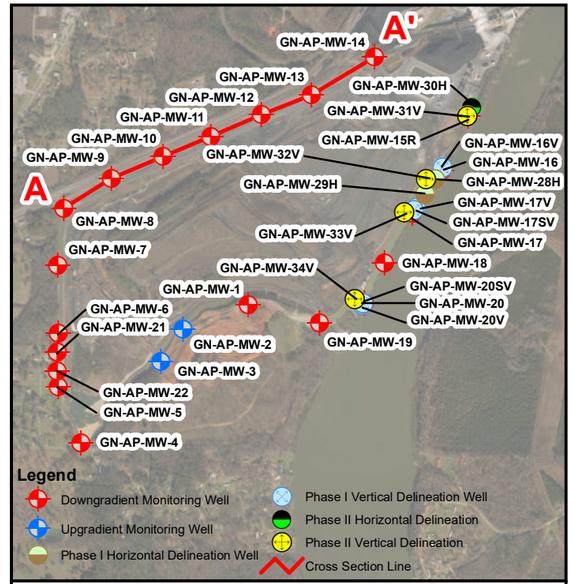
SITE GEOLOGIC MAP
PLANT GASTON ASH POND

FIGURE NO

FIGURE 3

Southern Company





Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.
3. Maximum and minimum groundwater elevation data were derived from the highest and lowest groundwater elevation values measured during events spanning March 28, 2018 to October 22, 2019.
4. Vertical exaggeration = 20x.

Legend

- Maximum Groundwater Elevation
- Minimum Groundwater Elevation
- Screen Interval
- Ground Surface Elevation
- Unit Boundary
- Inferred Unit Boundary

Borehole Descriptions

- No Recovery
- Hydroexcavation
- Discontinuity
- Fill
- Fat Clay
- Lean Clay
- Silty Clay
- Gravelly Lean Clay
- Low Plastic Organic Silt or Clay
- Silt
- Sandy Silt
- Gravelly Elastic Silt
- Clayey Gravel
- Shale
- Limestone
- Dolomitic Limestone
- Dolostone

Geologic Units

- Fill
- Clays
- Silts
- Sands
- Gravels
- Shale
- Dolostone
- Discontinuity

SCALE	As Shown
DATE	9/21/2020
DRAWN BY	KWR
CHECKED BY	GBD

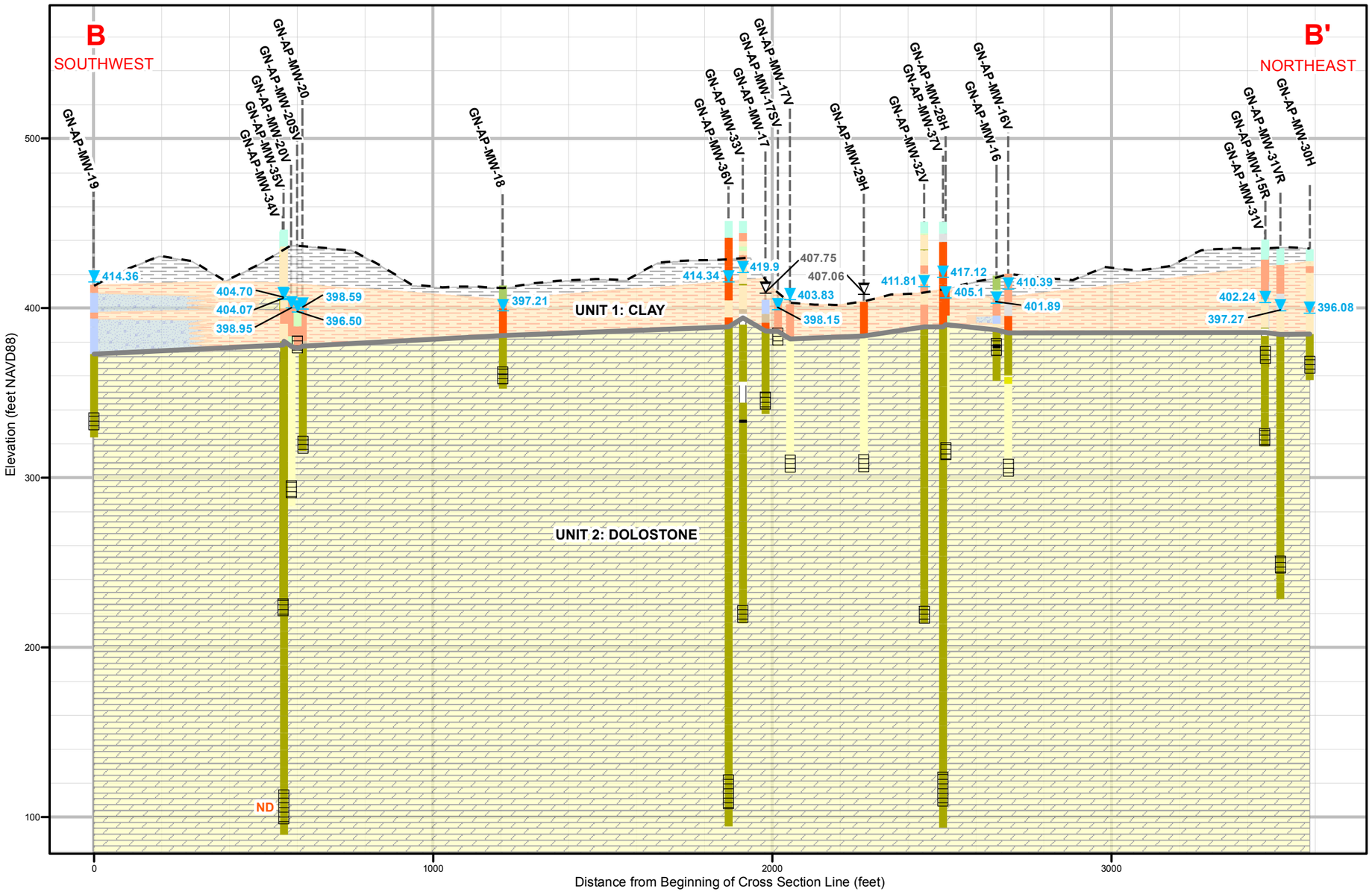
DRAWING TITLE

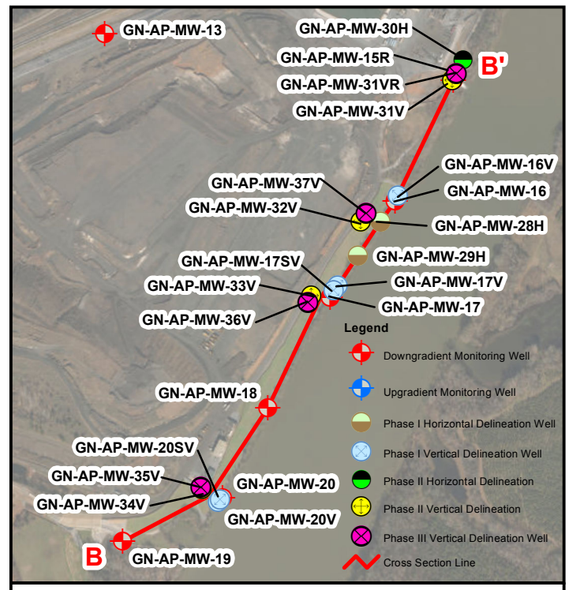
GEOLOGIC CROSS SECTION A - A'
PLANT GASTON ASH POND

FIGURE NO

FIGURE 4A

Southern Company





Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.
3. Groundwater elevations were measured on April 29, 2020.
4. Vertical exaggeration = 5x.

Legend

- Groundwater Elevation (414.36)
- Artesian Well: Top of Casing Elevation (407.08)
- Well Location
- Ground Surface Elevation
- Screen Interval

Borehole Description

- No Recovery
- Hydroexcavation
- Fill
- Rock Flour or Gypsum
- Topsoil
- Fat Clays
- Lean Clays
- Silty Clay
- Silt
- Clayey Sand
- Clayey Gravel
- Sandstone
- Limestone
- Partially Weathered Rock
- Dolostone
- Discontinuity

Geologic Units

- Fill
- Clays
- Bedrock Residuum Gravel with Clay
- Dolostone
- Discontinuity
- Unit Boundary

SCALE	AS SHOWN
DATE	9/21/2020
DRAWN BY	KWR
CHECKED BY	GBD

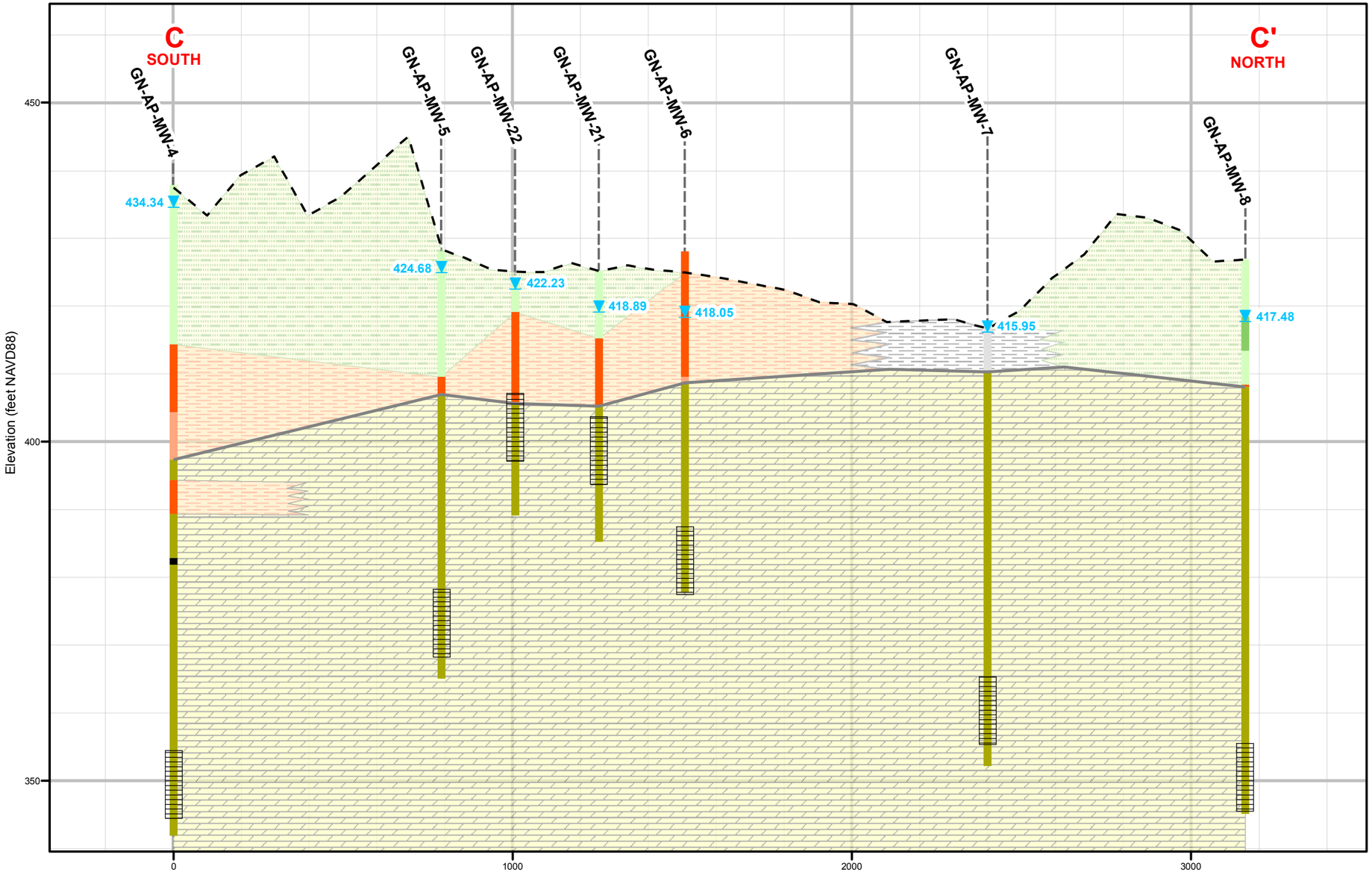
DRAWING TITLE

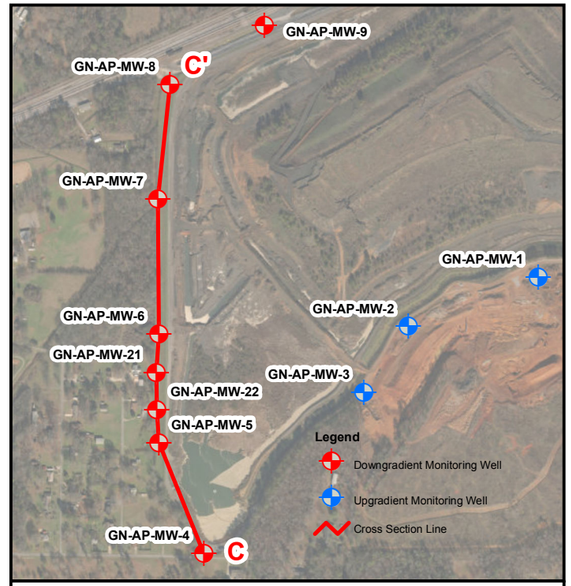
GEOLOGIC CROSS SECTION B - B'
PLANT GASTON ASH POND

FIGURE NO

FIGURE 4B

Southern Company





Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.
3. Groundwater elevation data were measured on April 29, 2020.
4. Vertical exaggeration = 20x.

Legend

- Groundwater Elevation (434.34)
- Well Location
- Ground Surface Elevation
- Screen Interval

Borehole Description

- Topsoil
- Lean Clay
- Silty Clay
- Silt
- Sandy Silt (0.251)
- Dolostone
- Discontinuity

Geologic Units

- Fill
- Clays
- Silts
- Dolostone
- Discontinuity
- Unit Boundary

SCALE	AS SHOWN
DATE	9/21/2020
DRAWN BY	KWR
CHECKED BY	GBD

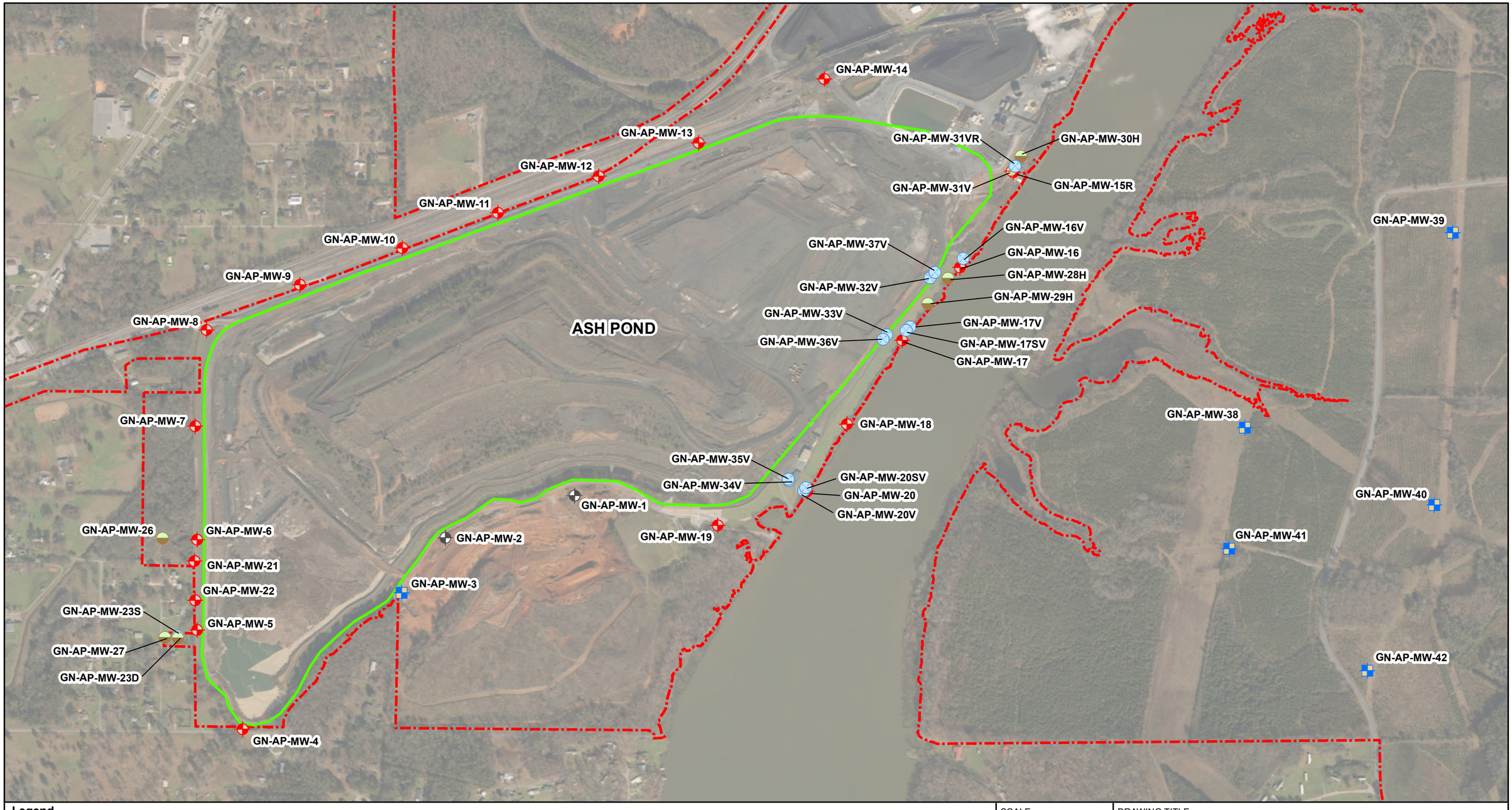
DRAWING TITLE

GEOLOGIC CROSS SECTION C - C'
PLANT GASTON ASH POND

FIGURE NO

FIGURE 4C

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Abandoned Monitoring Well
- Ash Pond Boundary
- Property Boundary (Approximate)

N

0 500 1,000 2,000 3,000 Feet

NOTES:
1. Monitoring wells GN-AP-MW-1 and GN-AP-MW-2 were abandoned in October 2019 due to construction activities.
2. Upgradient wells GN-AP-MW-38 through GN-AP-MW-42 were installed in February 2021.

SCALE	1:9000
DATE	6/23/2021
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE

MONITORING WELL LOCATION MAP PLANT GASTON ASH POND

FIGURE NO **FIGURE 5**

Southern Company

Well ID	Geologic Unit Screened	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)
GN-AP-MW-17SV	Upper Knox Dolomite	420.27	26.8	404.26	394.26
GN-AP-MW-20SV	Upper Knox Dolomite	403.06	32.1	382.75	372.75
GN-AP-MW-20V	Mid-Lower Knox Dolomite	404.16	120.0	299.10	289.10
GN-AP-MW-17V	Middle Knox Dolomite	403.61	100.0	314.25	304.25
GN-AP-MW-16V	Mid-Lower Knox Dolomite	404.03	120.0	294.06	284.06
GN-AP-MW-23D	Mid-Lower Knox Dolomite	428.69	147.8	288.58	278.58
GN-AP-MW-32V	Mid-Lower Knox Dolomite	453.77	243.3	220.92	210.92
GN-AP-MW-33V	Mid-Lower Knox Dolomite	454.29	243.2	221.54	211.54
GN-AP-MW-34V	Mid-Lower Knox Dolomite	447.98	229.8	228.55	218.55
GN-AP-MW-31VR	Mid-Lower Knox Dolomite	438.65	194.4	253.78	243.78
GN-AP-MW-36V	Lower Knox Dolomite	454.37	349.0	124.84	104.84
GN-AP-MW-35V	Lower Knox Dolomite	449.39	353.9	114.98	94.98
GN-AP-MW-37V	Lower Knox Dolomite	453.46	347.7	125.29	105.29

Wells in this table monitor different elevations within the Knox and display vertical gradients consistent with semi-confining conditions within the Knox. Vertical gradients from lower elevations/zones are upward along the south dike - river area.

GN-AP-MW-14 399.91
GN-AP-MW-13* 424.04
GN-AP-MW-12* 425.22
GN-AP-MW-11 422.4
GN-AP-MW-10 421.04
GN-AP-MW-9 419.91
GN-AP-MW-8 417.76
GN-AP-MW-7 416.44
GN-AP-MW-6 416.85
GN-AP-MW-26 416.61
GN-AP-MW-21 417.02
GN-AP-MW-22 418.48
GN-AP-MW-23D 420.17
GN-AP-MW-27 420.67
GN-AP-MW-23S 420.42
GN-AP-MW-5 420.22
GN-AP-MW-4 428.89
GN-AP-MW-3 429.37
GN-AP-MW-30H 396.26
GN-AP-MW-31VR 396.37
GN-AP-MW-31V 396.38
GN-AP-MW-15R 400.83
GN-AP-MW-37V 408.94
GN-AP-MW-16V 404.16
GN-AP-MW-32V 409.06
GN-AP-MW-16 399.87
GN-AP-MW-29H 402.97
GN-AP-MW-28H 401.27
GN-AP-MW-33V 411.88
GN-AP-MW-17V 400.79
GN-AP-MW-36V 411.74
GN-AP-MW-17SV 397.59
GN-AP-MW-17 403.49
GN-AP-MW-18 396.11
GN-AP-MW-35V 401.53
GN-AP-MW-34V 402.42
GN-AP-MW-20SV 396.47
GN-AP-MW-20 397.86
GN-AP-MW-19 414.75
GN-AP-MW-20V 398.23
GN-AP-MW-39 399.51
GN-AP-MW-38 399.35
GN-AP-MW-40 400.42
GN-AP-MW-41 399.94
GN-AP-MW-42 399.85

TAILINGS POND 5

Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Potentiometric Surface Contours (ft NAVD88)
- Approximate Groundwater Flow Direction
- Drainage Ditch

GN-AP-MW-3 Well ID
429.37 Groundwater Elevation

N

0 500 1,000 2,000 Feet

NOTES:
1. NAVD88 indicates North American Vertical Datum of 1988.
2. GN-APM-MW-12* and MW-13* were under artesian conditions at time of measurement.
3. Average daily gage height at USGS Coosa River station at Plant Gaston was 396.26 ft NAVD88 on April 18, 2022.

SCALE	1:9000
DATE	7/6/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
APRIL18, 2022
PLANT GASTON ASH POND

FIGURE NO
FIGURE 6

Southern Company

GN-AP-MW-14
0.00059 mg/L

GN-AP-MW-13
0.00043 mg/L

GN-AP-MW-12
0.00223 mg/L

GN-AP-MW-11
0.00018(J) mg/L

GN-AP-MW-10
0.00024 mg/L

GN-AP-MW-9
0.00225 mg/L

GN-AP-MW-8
0.00107 mg/L

GN-AP-MW-7
0.00016(J) mg/L

GN-AP-MW-26
0.00012(J) mg/L

GN-AP-MW-6
0.00015(J) mg/L

GN-AP-MW-22
0.00015(J) mg/L

GN-AP-MW-21
0.00141 mg/L

GN-AP-MW-23D
0.00196 mg/L

GN-AP-MW-5
0.00015(J) mg/L

GN-AP-MW-27
0.00022 mg/L

GN-AP-MW-23S
0.00028 mg/L

GN-AP-MW-4
0.00016(J) mg/L

GN-AP-MW-3
0.00058 mg/L

GN-AP-MW-19
0.00215 mg/L

GN-AP-MW-34V
0.00339 mg/L

GN-AP-MW-20V
0.00298 mg/L

GN-AP-MW-20SV
0.00226 mg/L

GN-AP-MW-20
0.00405 mg/L

GN-AP-MW-35V
0.00212 mg/L

GN-AP-MW-18
0.00281 mg/L

GN-AP-MW-17
0.0084 mg/L

GN-AP-MW-36V
0.00212 mg/L

GN-AP-MW-33V
0.0135 mg/L

GN-AP-MW-17V
0.00112 mg/L

GN-AP-MW-17SV
0.00183 mg/L

GN-AP-MW-29H
0.0021 mg/L

GN-AP-MW-32V
0.00528 mg/L

GN-AP-MW-37V
0.00073 mg/L

GN-AP-MW-31VR
0.00989 mg/L

GN-AP-MW-30H
0.00548 mg/L

GN-AP-MW-15R
0.00058 mg/L

GN-AP-MW-16V
0.00114 mg/L

GN-AP-MW-16
0.00552 mg/L

GN-AP-MW-28H
0.00278 mg/L

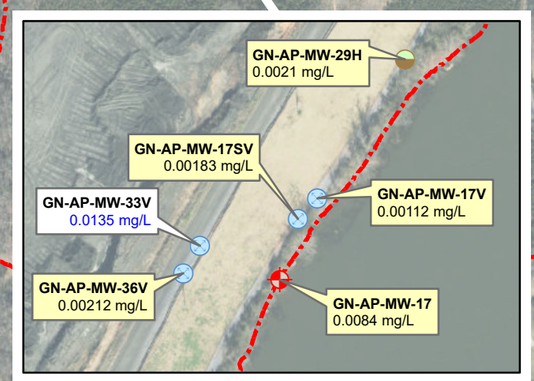
GN-AP-MW-39
0.00043 mg/L

GN-AP-MW-38
0.00019(J) mg/L

GN-AP-MW-40
0.00017(J) mg/L

GN-AP-MW-41
0.00014(J) mg/L

GN-AP-MW-42
0.00027 mg/L



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Ash Pond Boundary
- Property Boundary (Approximate)

N

0 500 1,000 1,500 Feet

NOTES:
1. Wells were sampled from April 19 to May 3, 2022.
2. Bold concentrations in blue exceeded the Groundwater Protection Standard (GWPS) of 0.01 mg/L.
3. (J) values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).

SCALE	1:9000
DATE	7/7/2022
DRAWN BY	KWR
CHECKED BY	GBD

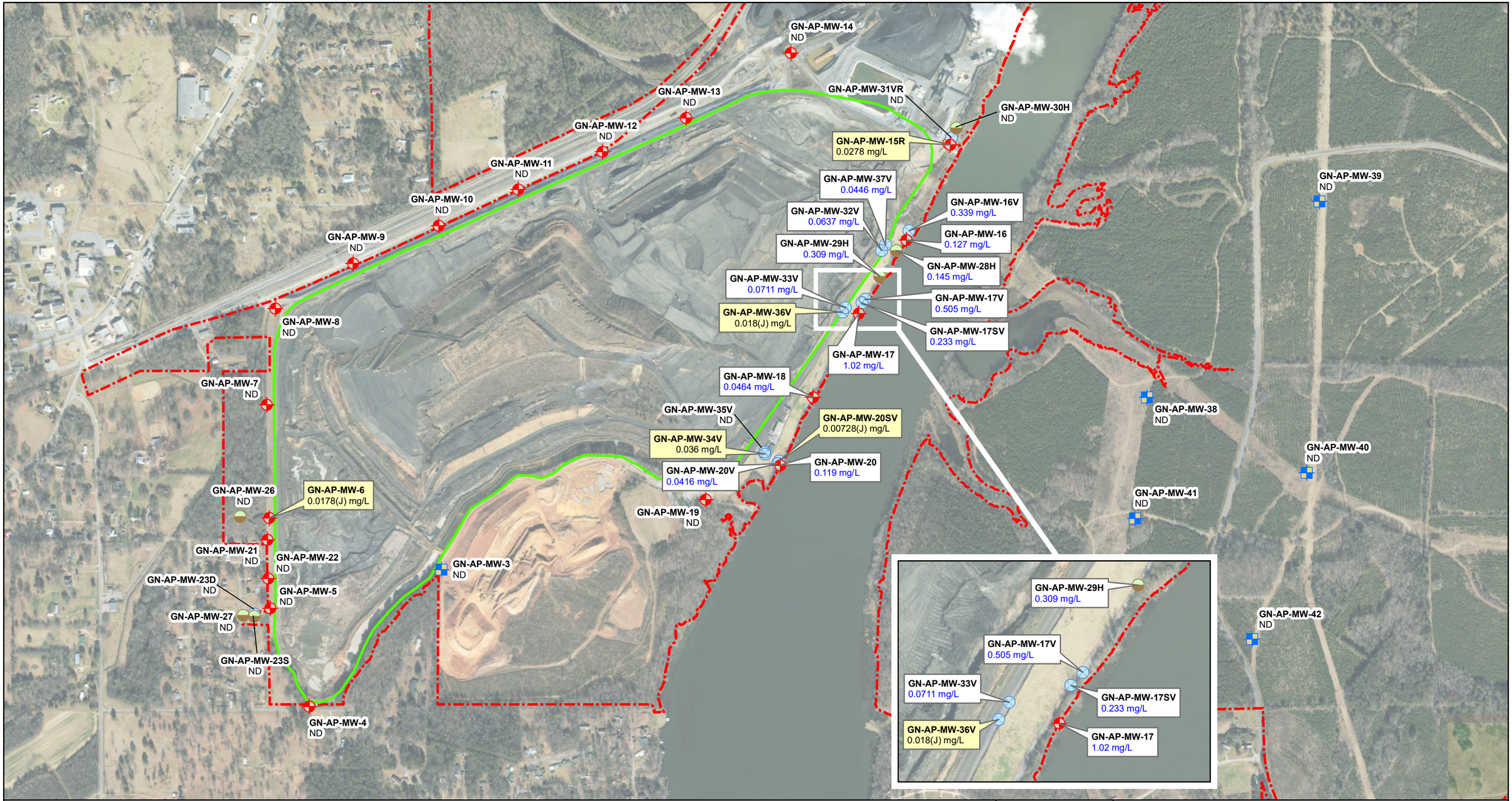
DRAWING TITLE

ARSENIC CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND

FIGURE NO

FIGURE 7A

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Ash Pond Boundary
- Property Boundary (Approximate)

N

0 500 1,000 2,000 Feet

NOTES:
1. Wells were sampled from April 19 to May 3, 2022.
2. Bold concentrations in blue exceed the Groundwater Protection Standard of 0.04 mg/L.
3. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.007105 mg/L.
4. J values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).

SCALE	1:9000
DATE	7/7/2022
DRAWN BY	KWR
CHECKED BY	GDB

DRAWING TITLE

LITHIUM CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND

FIGURE NO **FIGURE 7B**

Southern Company

GN-AP-MW-14
0.00052 mg/L

GN-AP-MW-13
0.0003 mg/L

GN-AP-MW-12
0.00033 mg/L

GN-AP-MW-11
0.00038 mg/L

GN-AP-MW-10
0.00021 mg/L

GN-AP-MW-9
0.0012 mg/L

GN-AP-MW-8
0.00107 mg/L

GN-AP-MW-7
0.00024 mg/L

GN-AP-MW-31VR
0.0199 mg/L

GN-AP-MW-30H
0.00195 mg/L

GN-AP-MW-15R
0.144 mg/L

GN-AP-MW-37V
0.176 mg/L

GN-AP-MW-16V
0.694 mg/L

GN-AP-MW-32V
0.0332 mg/L

GN-AP-MW-16
0.519 mg/L

GN-AP-MW-29H
1.06 mg/L

GN-AP-MW-28H
0.487 mg/L

GN-AP-MW-33V
0.0292 mg/L

GN-AP-MW-17V
2.06 mg/L

GN-AP-MW-36V
0.0459 mg/L

GN-AP-MW-17SV
1.17 mg/L

GN-AP-MW-17
2.99 mg/L

GN-AP-MW-18
0.0598 mg/L

GN-AP-MW-35V
0.0128 mg/L

GN-AP-MW-34V
0.286 mg/L

GN-AP-MW-20SV
0.174 mg/L

GN-AP-MW-20
0.84 mg/L

GN-AP-MW-19
0.0146 mg/L

GN-AP-MW-20V
0.338 mg/L

GN-AP-MW-39
0.00074 mg/L

GN-AP-MW-38
0.0002(J) mg/L

GN-AP-MW-40
0.00012(J) mg/L

GN-AP-MW-41
ND

GN-AP-MW-42
0.00013(J) mg/L

GN-AP-MW-26
0.00235 mg/L

GN-AP-MW-6
0.00912 mg/L

GN-AP-MW-21
0.0116 mg/L

GN-AP-MW-22
0.0342 mg/L

GN-AP-MW-23D
0.00098 mg/L

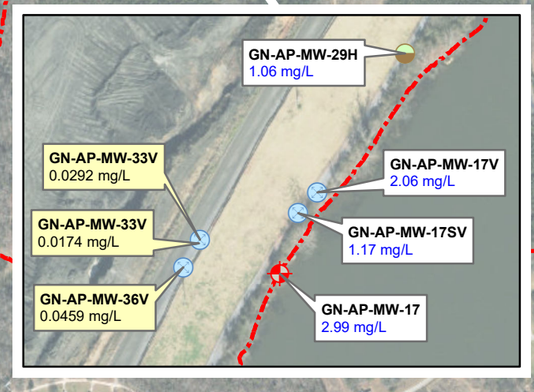
GN-AP-MW-5
0.0389 mg/L

GN-AP-MW-27
0.00501 mg/L

GN-AP-MW-23S
0.0172 mg/L

GN-AP-MW-4
0.0003 mg/L

GN-AP-MW-3
0.00439 mg/L



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Ash Pond Boundary
- Property Boundary (Approximate)

N

0 500 1,000 2,000 Feet

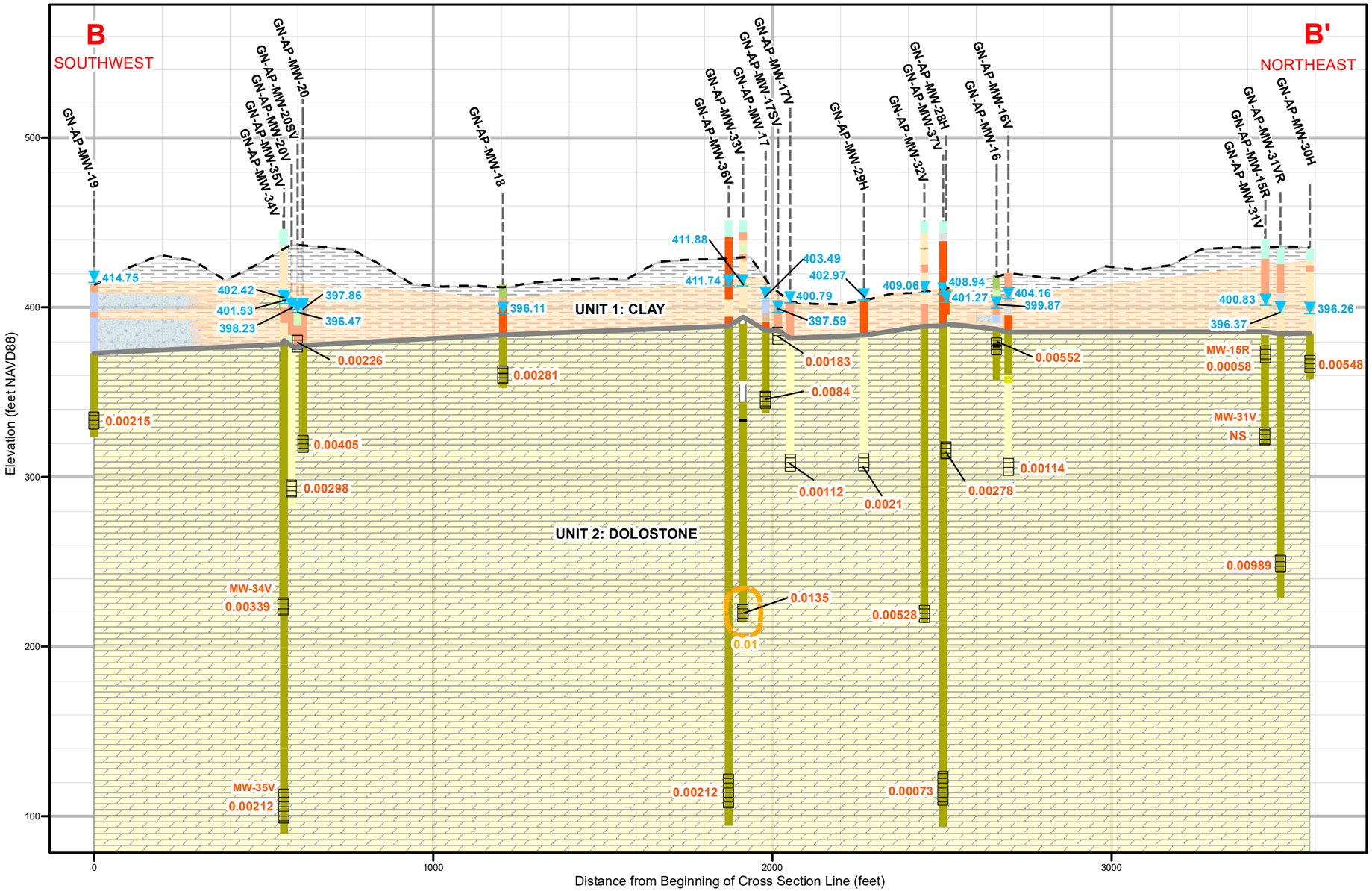
NOTES:
1. Wells were sampled from April 19 to May 3, 2022.
2. Bold concentrations in blue exceeded the Groundwater Protection Standard of 0.1 mg/L.
3. ND indicates concentration less than the laboratory Method Detection Limit (MDL) of 0.000068 mg/L.
4. J values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).

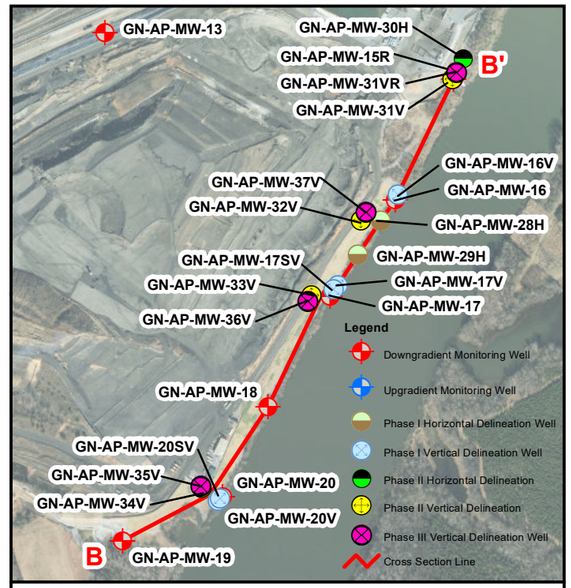
SCALE	1:9000
DATE	7/7/2022
DRAWN BY	KWR
CHECKED BY	KWR

DRAWING TITLE
MOLYBDENUM CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND

FIGURE NO
FIGURE 7C

Southern Company





Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.
3. Groundwater elevations were measured on April 18, 2022.
4. Water samples were collected between April 19 and May 2, 2022.
5. mg/L indicates milligrams per liter.
6. NS indicates not sampled.
7. GWPS indicates groundwater protection standard.
8. Vertical exaggeration = 5x.

Legend

- 414.75 Groundwater Elevation
- Well Location
- Ground Surface Elevation
- Screen Interval
- Arsenic GWPS Isoconcentration Contour
- Area Exceeding GWPS for Arsenic
- 0.01 Arsenic GWPS (mg/L)

Borehole Description

- No Recovery
- Hydroexcavation
- Fill
- Rock Flour or Gypsum
- Topsoil
- Fat Clays
- Lean Clays
- Silty Clay
- Silt
- Clayey Sand
- Clayey Gravel
- Sandstone
- Limestone
- Partially Weathered Rock
- Dolostone
- Discontinuity

Geologic Units

- Fill
- Clays
- Bedrock Residuum Gravel with Clay
- Dolostone
- Discontinuity
- Unit Boundary

SCALE	AS SHOWN
DATE	7/7/2022
DRAWN BY	KWR
CHECKED BY	GBD

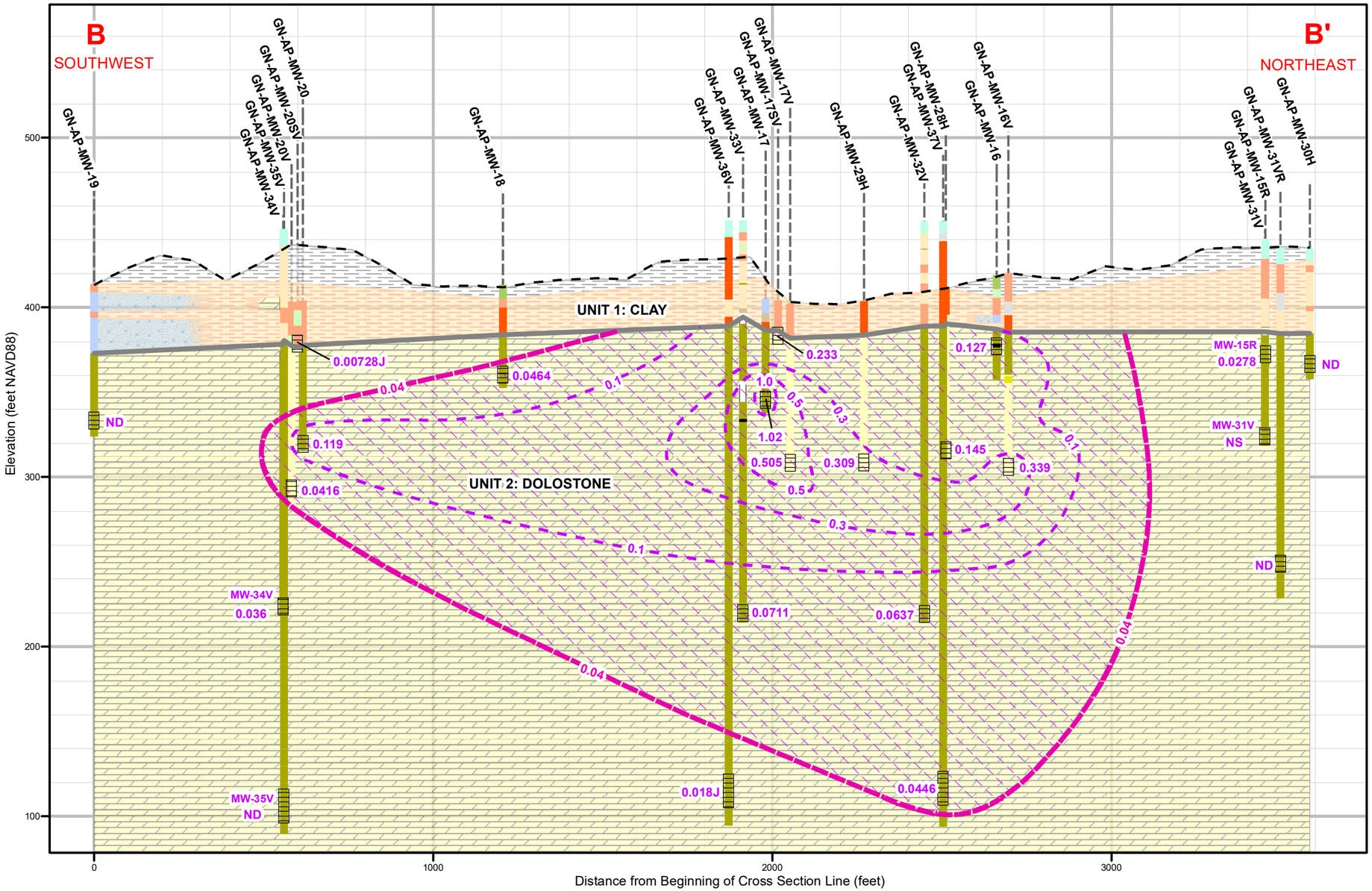
DRAWING TITLE

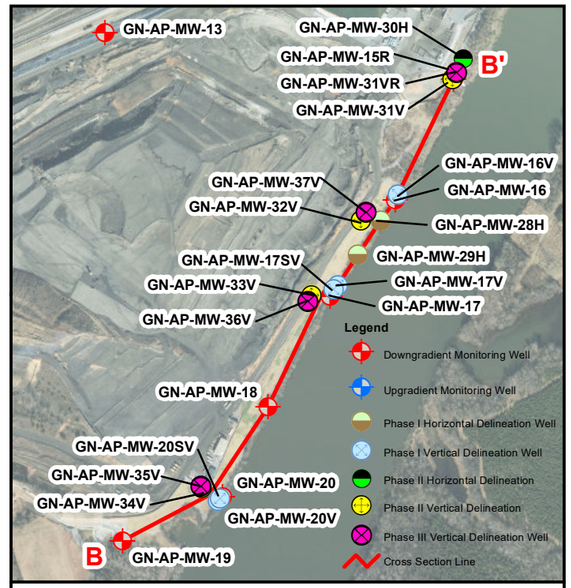
ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND

FIGURE NO

FIGURE 8A

Southern Company





Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.
3. Groundwater elevations were measured on April 18, 2022.
4. Water samples were collected between April 19 and May 2, 2022.
5. mg/L indicates milligrams per liter.
6. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
7. ND indicates not detected above the laboratory method detection limit.
8. NS indicates not sampled.
9. GWPS indicates groundwater protection standard.
10. Vertical exaggeration = 5x.

Legend

- Well Location
- Ground Surface Elevation
- Screen Interval
- Lithium Isoconcentration Contour
- Lithium GWPS Isoconcentration Contour
- Area Exceeding GWPS for Lithium
- 0.119 Lithium concentration (mg/L)
- 0.04 Lithium GWPS (mg/L)

Borehole Description

- No Recovery
- Hydroexcavation
- Fill
- Rock Flour or Gypsum
- Topsoil
- Fat Clays
- Lean Clays
- Silty Clay
- Silt
- Clayey Sand
- Clayey Gravel
- Sandstone
- Limestone
- Partially Weathered Rock
- Dolostone
- Discontinuity

Geologic Units

- Fill
- Clays
- Bedrock Residuum Gravel with Clay
- Dolostone
- Discontinuity
- Unit Boundary

SCALE	AS SHOWN
DATE	7/28/2022
DRAWN BY	KWR
CHECKED BY	GBD

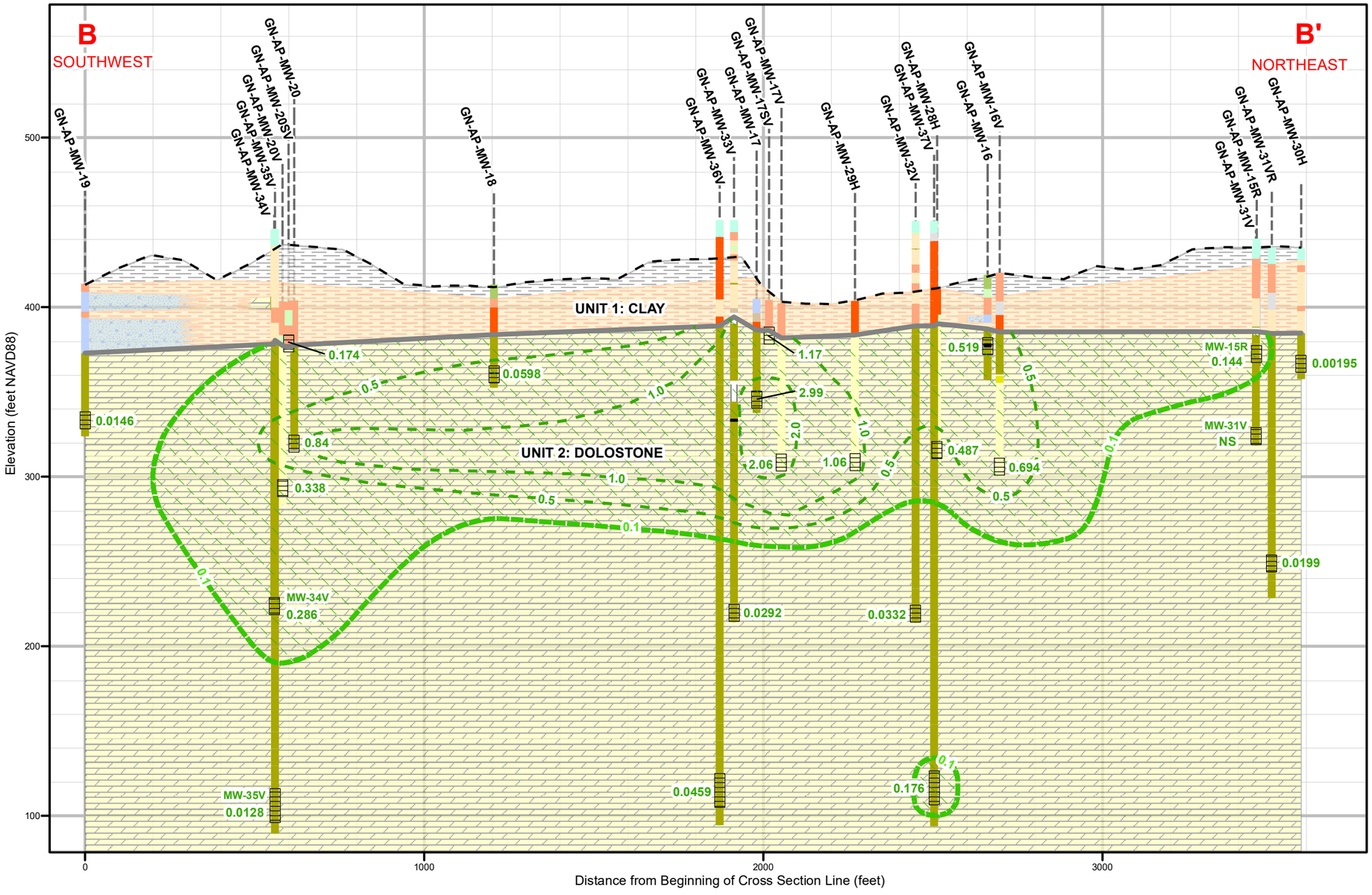
DRAWING TITLE

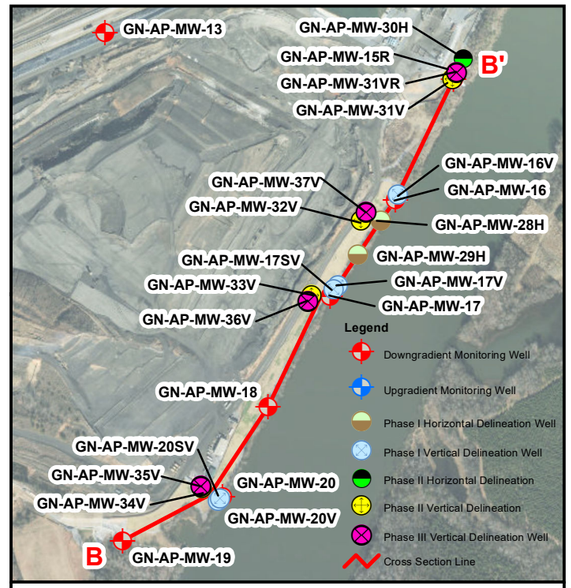
LITHIUM CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND

FIGURE NO

FIGURE 8B

Southern Company





Notes: 1. Source of ground surface elevation data: Lidar
2. NAVD88 indicates North American Vertical Datum of 1988.
3. Groundwater elevations were measured on April 18, 2022.
4. Water samples were collected between April 19 and May 2, 2022.
5. mg/L indicates milligrams per liter.
6. NS indicates not sampled.
7. GWPS indicates groundwater protection standard.
8. Vertical exaggeration = 5x.

Legend

- Well Location
- Ground Surface Elevation
- Screen Interval
- Molybdenum Isoconcentration Contour
- Molybdenum GWPS Isoconcentration Contour
- Area Exceeding GWPS for Molybdenum
- 0.288 Molybdenum concentration (mg/L)
- 0.1 Molybdenum GWPS (mg/L)

Borehole Description

- No Recovery
- Hydroexcavation
- Fill
- Rock Flour or Gypsum
- Topsoil
- Fat Clays
- Lean Clays
- Silty Clay
- Silt
- Clayey Sand
- Clayey Gravel
- Sandstone
- Limestone
- Partially Weathered Rock
- Dolostone
- Discontinuity

Geologic Units

- Fill
- Clays
- Bedrock Residuum Gravel with Clay
- Dolostone
- Discontinuity
- Unit Boundary

SCALE	AS SHOWN
DATE	7/28/2022
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE

MOLYBDENUM CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND

FIGURE NO

FIGURE 8C

Southern Company

Appendix A

Southern Company

APPENDIX A - ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 05/03/2022)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-3																		
		03/28/2016	05/17/2016	07/11/2016	09/14/2016	11/16/2016	03/01/2017	05/23/2017	06/19/2017	08/15/2017	01/10/2018	04/19/2018	10/03/2018	04/02/2019	09/17/2019	02/19/2020	07/27/2020	04/05/2021	09/27/2021	05/03/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	31.6	29.6	30	30.6	30.4	<0.1	30.1	29.9	28.1	--	31.2	32.3	31.6	31.7	32.3	31	30.6	30.7	29.9
Chloride	mg/L	2.48	1.9	1.93	1.77	1.98	2.3	2.2	1.7 J	2.1	--	1.7 J	1.7 J	1.65	1.93	1.81	1.83	1.91	1.9	1.67
Fluoride	mg/L	0.032 J	0.068 J	0.057 J	0.017 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	0.0801 J	0.0805 J	<0.06
pH_Field	pH	7.82	7.79	7.96	7.79	7.72	7.68	7.69	7.67	7.73	7.84	7.69	7.7	7.8	7.8	7.8	7.69	7.67	7.81	7.72
Sulfate	mg/L	7.57	5.12	4.63	3.19	3.71	3.4 J	2 J	2.5 J	2.4 J	--	1.9 J	2.7 J	3.24	4.51	3.73	4.11	3.2	2.76	2.16
TDS	mg/L	147	140	146	141	157	148	141	126	146	--	143	148	140	145	149	154	136	132	141
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000613 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000829	0.000731	0.000577
Barium	mg/L	0.0116	0.00866 J	0.00969 J	0.00864 J	0.00917 J	0.00869 J	0.00658 J	0.00672 J	--	0.00645 J	0.00625 J	0.00708 J	0.00625 J	0.00834 J	0.00697 J	0.0192	0.0222	0.021	0.0206
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00065 J	0.000499 J	0.000438 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.222 U	0.118 U	0.265 U	0.295 U	0.0981 U	--	0.194 U	--	0.753	0.171 U	0.433 U	-0.0631 U	0.0186 U	0.418 U	-0.0654 U	0.143 U	0.348 U	0.822 U
Lead	mg/L	0.00128 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00652 J	0.00651 J	0.00691 J	0.0074 J	0.00663 J	0.00856 J	0.00689 J	0.00687 J	--	0.00806 J	0.00659 J	0.00669 J	0.00766 J	0.00644 J	0.00575 J	0.0058 J	0.00538	0.00469	0.00436
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.000648 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000203 J	8.13e-005 J	0.000358

Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-38			GN-AP-MW-39			GN-AP-MW-40			GN-AP-MW-41			GN-AP-MW-42		
		04/12/2021	09/21/2021	04/19/2022	04/12/2021	09/21/2021	04/19/2022	04/12/2021	09/21/2021	04/19/2022	04/12/2021	09/21/2021	04/19/2022	04/13/2021	09/21/2021	04/19/2022
Appendix III																
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0342 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	23.2	22.3	22.8	35	35.9	36.2	22.9	21.6	21.6	26.6	31.8	29.4	11.7	15.4	10.4
Chloride	mg/L	5.88	6.09	5.24	2.91	2.94	2.22	4.13	2.19	2.03	3.05	2.78	2.71	4.18	3.99	3.8
Fluoride	mg/L	<0.06	0.0969 J	<0.06	0.163	0.18	0.107 J	0.0651 J	0.083 J	<0.06	<0.06	0.0994 J	<0.06	<0.06	0.0656 J	<0.06
pH_Field	pH	7.99	7.85	7.91	7.09	7.3	6.85	7.77	7.12	7.68	7.18	7.3	6.8	6.14	6.07	6.31
Sulfate	mg/L	12.6	5.49	2.72	14.6	14.5	11.4	7.23	1.31	0.934 J	2.99	1.44	1.37 J	4.92	3.27	2.53
TDS	mg/L	129	115	122	146	138	144	118	111	107	126	148	138	77.3	83.3	67.3
Appendix IV																
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.000283	0.000126 J	0.000113 J	0.000946	0.000456	0.000332	0.000195 J	0.0001 J	0.000172 J	0.000179 J	<6.8e-005	0.00013 J	0.000163 J	<6.8e-005	9.02e-005 J
Barium	mg/L	0.008	0.0101	0.007	0.0226	0.0283	0.0266	0.0107	0.00746	0.00609	0.0155	0.0213	0.0185	0.0154	0.0114	0.0136
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000855	0.000181 J	0.000119 J
Chromium	mg/L	0.000599 J	0.000792 J	0.000446 J	0.000345 J	0.00045 J	0.000299 J	0.000871 J	0.00113	0.00106	0.000441 J	0.000434 J	0.000477 J	0.000307 J	0.000503 J	0.000432 J
Cobalt	mg/L	9.61e-005 J	8.24e-005 J	0.000132 J	<6.8e-005	<6.8e-005	<6.8e-005	0.000109 J	<6.8e-005	<6.8e-005	0.000167 J	<6.8e-005	8.06e-005 J	0.00168	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.369 U	0.655 U	0.024 U	0.176 U	0.723 U	1.02	0.161 U	0.737 U	0.455 U	0.456 U	0.828 U	0.392 U	0.404 U	0.491 U	0.853 U
Lead	mg/L	0.000124 J	0.000119 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000114 J	<6.8e-005	<6.8e-005	0.000122 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	7.46e-005 J
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000402	0.000172 J	0.00038	0.00167	0.00103	0.000792	0.000473	0.000192 J	0.000115 J	<6.8e-005	<6.8e-005	<0.000102	0.000176 J	0.000151 J	0.000132 J
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00015 J	<6.8e-005	7.2e-005 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-4																		
		03/30/2016	05/17/2016	07/11/2016	09/14/2016	11/16/2016	02/28/2017	05/24/2017	06/21/2017	08/15/2017	01/10/2018	04/19/2018	10/03/2018	04/02/2019	09/17/2019	02/18/2020	07/27/2020	04/05/2021	09/27/2021	05/02/2022
Appendix III																				
Boron	mg/L	0.193	0.201	0.375	0.507	0.655	0.364	0.352	0.263	0.23	--	0.305	0.952	0.271	0.619	0.281	0.3	0.2	0.149	0.109
Calcium	mg/L	53.6	50.5	56.5	58	61.8	56.8	55.5	51	48.9	--	56.5	73.5	56.9	69.3	55.8	57	52.2	54.4	56.8
Chloride	mg/L	12.9	12	20.3	27.3	37.1	27	28	20	17	--	21	21	18.3	37.5	19.6	20.2	12.8	11	8.75
Fluoride	mg/L	0.023 J	0.065 J	0.054 J	0.014 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	0.0506 J	<0.06	0.0842 J	0.0702 J	<0.06
pH_Field	pH	7.31	7.35	7.43	7.26	7.19	7.23	7.26	7.26	7.29	7.17	7.27	7.09	7.34	7.65	7.34	7.3	7.33	7.37	6.68
Sulfate	mg/L	24.9	25.1	33.2	35.5	38.5	32	30	25	24	--	25	37	22.4	39.8	21.4	21.7	15.6	14.3	11.1
TDS	mg/L	339	269	305	326	338	303	312	241	281	--	282	354	270	332	274	284	248	237	248
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.002 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000142 J	0.000177 J	0.000162 J
Barium	mg/L	0.0219	0.0196	0.0286	0.0261	0.0291	0.0229	0.0202	0.0186	--	0.0261	0.0231	0.0296	0.0254	0.0344	0.0185	0.0207	0.0151	0.0155	0.0145
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00322 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000909 J	0.000822 J	0.000615 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.294 U	-0.021 U	0.705	0.491 U	0.367 U	--	0.0763 U	--	0.818	0.39 U	1.23	0.427	0.767	0.231 U	0.97 U	0.474 U	0.745 U	0.658 U
Lead	mg/L	0.00247 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.015 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	0.000278 J	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000137 J	0.000264	0.000308
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-5																		
		03/30/2016	05/23/2016	07/14/2016	09/13/2016	11/15/2016	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/09/2018	04/17/2018	10/01/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021	05/03/2022
Appendix III																				
Boron	mg/L	1.82	2.11	2.18	2.13	2.22	2.24	2.2	2.2	2.16	--	2.22	2.64	1.78	2.31	0.84	2.05	0.885	0.725	0.551
Calcium	mg/L	68.3	63.1	67.7	67.8	68.4	71.8	70.6	73.8	65.7	--	90	79.6	69.8	79.9	46.8	67.8	53.3	50.6	56.6
Chloride	mg/L	31.9	29.4	29.5	30.8	30.7	40	40	44	36	--	63	49	39.9	42.8	17.5	44.2	18.8	14.6	12.8
Fluoride	mg/L	0.048 J	0.076 J	0.058 J	0.025 J	<0.01	0.04 J	0.05 J	0.06 J	0.05 J	0.04 J	0.04 J	0.05 J	0.0555 J	0.0568 J	0.0647 J	<0.06	0.0874 J	0.1	0.0648 J
pH_Field	pH	7.61	7.68	7.79	7.69	7.72	7.55	7.64	7.5	7.46	7.71	7.29	7.68	7.47	7.53	7.47	7.7	7.47	7.55	7.01
Sulfate	mg/L	146	160	173	173	177	160	160	150	170	--	130	140	122	167	39.8	152	38.7	33.5	34
TDS	mg/L	398	411	424	426	412	452	448	437	440	--	454	449	390	434	228	406	256	240	236
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000689 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000148 J	0.000161 J	0.00011 J
Barium	mg/L	0.0339	0.0289	0.0281	0.0301	0.0296	0.0395	0.0307	0.0367	--	0.0269	0.0441	0.0298	0.0371	0.0335	0.0231	0.0332	0.027	0.0262	0.0219
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000278 J	0.000361 J	0.000391 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	9.62e-005 J	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.45	0.84	0.685	0.804	0.477	--	0.737	--	0.714	0.641	0.651	0.245 U	0.435 U	0.661	0.907 U	1.4	1.34	0.958 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 J	9.38e-005 J	9.9e-005 J
Lithium	mg/L	0.0307 J	0.0374 J	0.0499 J	0.0438 J	0.0494 J	0.0426 J	0.0416 J	0.0376 J	--	0.0461 J	0.0319 J	0.0482	0.0242	0.043	<0.01	0.0361	0.01 J	0.0086 J	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.205	0.257	0.273	0.313	0.314	0.344	0.287	0.265	--	0.352	0.135	0.294	0.164	0.261	0.0546	0.215	0.0562	0.0541	0.0407
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-6																		
		03/30/2016	05/19/2016	07/13/2016	09/13/2016	11/15/2016	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/10/2018	04/17/2018	10/04/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021	05/03/2022
Appendix III																				
Boron	mg/L	2.89	2.84	2.41	2.06	2.08	2.25	2.11	2.5	1.34	--	2.74	2.38	2.7	2.68	2.94	2.79	2.4	2.03	1.79
Calcium	mg/L	75.7	69.7	62.7	48.3	51.8	58.4	54.8	67.9	52.5	--	77.1	61.2	80	83.9	83.1	82.5	75.5	69.2	68.9
Chloride	mg/L	30.8	28.7	24.8	21.7	25.9	29	28	40	32	--	52	50	66.4	65.3	69.7	64.2	45.5	45.3	26.9
Fluoride	mg/L	0.056 J	0.09 J	0.067 J	0.026 J	<0.01	<0.032	0.04 J	0.05 J	0.04 J	0.04 J	0.04 J	0.05 J	0.06 J	0.0634 J	<0.05	<0.06	0.0872 J	0.0862 J	<0.06
pH_Field	pH	7.95	7.88	8.07	8.04	7.93	7.89	7.96	7.87	7.86	7.98	7.82	7.87	7.73	7.85	7.8	7.62	7.02	7.92	7.63
Sulfate	mg/L	204	206	176	151	161	160	160	160	160	--	160	150	200	177	178	189	151	156	115
TDS	mg/L	430	422	391	378	354	389	375	416	394	--	437	418	445	445	455	485	436	415	376
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000812 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00105 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	9.55e-005 J	0.000138 J	0.000151 J
Barium	mg/L	0.0277	0.0282	0.0222	0.017	0.0151	0.0212	0.0162	0.02	--	0.0183	0.0271	0.0189	0.0241	0.023	0.0254	0.026	0.0211	0.0223	0.0222
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000259 J	0.000345 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.544	0.0469 U	0.179 U	1.45	0.166 U	--	0.484	--	0.544	0.719	0.558	0.369	0.586	0.746	0.292 U	0.387 U	0.314 U	0.478 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	0.012 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0186	0.0188	0.017	0.00943 J	0.00741 J	0.0146	0.00996 J	0.0148	--	0.0122	0.0146	0.0101	0.0169	0.0138	0.0157	0.0185	0.0119	0.0118	0.0088
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-7																		
		03/30/2016	05/19/2016	07/13/2016	09/13/2016	11/15/2016	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/10/2018	04/17/2018	10/04/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021	05/03/2022
Appendix III																				
Boron	mg/L	1.85	1.66	1.58	0.674	1.72	1.84	1.69	1.75	1.68	--	1.81	2.34	1.64	2.16	1.99	1.81	1.9	1.52	1.28
Calcium	mg/L	96.4	84.5	84	58.2	87.9	96.8	88	87.5	89.4	--	100	106	115	99.1	95.8	84.9	86.8	76.2	69
Chloride	mg/L	16.9	14.9	12.6	8.09	14.3	18	19	18	18	--	16	25	15.7	29.5	28	22.3	22.4	16.5	12.6
Fluoride	mg/L	0.034 J	0.072 J	0.054 J	0.021 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	0.04 J	<0.032	0.05 J	0.052 J	0.0578 J	0.0523 J	<0.06	0.0705 J	0.0882 J	<0.06
pH_Field	pH	7.45	7.5	7.58	7.53	7.48	7.46	7.51	7.52	7.43	7.57	7.5	7.49	7.24	7.52	7.51	7.32	7.51	7.74	7.53
Sulfate	mg/L	215	204	155	89.8	176	200	200	180	210	--	170	200	186	199	207	160	164	143	107
TDS	mg/L	472	458	412	312	426	487	487	421	490	--	464	504	428	489	490	434	436	379	329
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00089 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000194 J	0.000189 J	0.000163 J
Barium	mg/L	0.025	0.0249	0.0279	0.0153	0.0225	0.0261	0.0208	0.0244	--	0.0235	0.0252	0.0265	0.0236	0.029	0.0261	0.0248	0.0245	0.0218	0.0197
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000506 J	0.000373 J	0.000349 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	--	0.116 U	0.187 U	0.0165 U	0.236 U	0.213 U	--	0.16 U	--	0.889	0.623	0.971	0.326 U	0.56 U	0.512 U	0.652 U	0.743 U	0.319 U	0.596 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00021	0.000261	0.000281
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-8																		
		03/29/2016	05/23/2016	07/12/2016	09/13/2016	11/15/2016	02/28/2017	05/24/2017	06/20/2017	08/15/2017	01/10/2018	04/17/2018	10/01/2018	04/01/2019	09/17/2019	02/25/2020	07/29/2020	04/06/2021	09/21/2021	05/02/2022
Appendix III																				
Boron	mg/L	0.161	0.197	0.17	0.114	0.0853 J	0.0452 J	0.113	0.0853 J	0.0862 J	--	0.0649 J	0.03 J	0.0345 J	0.0439 J	<0.03	<0.03	0.0327 J	<0.03	0.0316 J
Calcium	mg/L	58.2	52.1	53.6	53	51.5	51.4	50.8	49.8	51.6	--	52.2	50.8	50.5	54.5	54.7	49.4	51.1	51.4	56.7
Chloride	mg/L	5.14	5.03	4.66	3.98	3.71	5.2	5.4	5	4.6	--	3.6	3.9	3.9	3.96	3.81	3.77	3.9	3.8	3.33
Fluoride	mg/L	0.104 J	0.131 J	0.105 J	0.057 J	<0.01	0.07 J	0.09 J	0.08 J	0.09 J	0.11	0.09 J	0.12	0.0956 J	0.0971 J	0.0898 J	0.0742 J	0.114	0.132	0.111 J
pH_Field	pH	7.2	7.39	7.43	7.38	7.35	7.3	7.33	7.33	7.31	7.36	7.28	7.33	7.4	7.55	7.39	7.39	7.23	7.3	7.44
Sulfate	mg/L	29.9	26.5	24.3	17.8	10.1	5.8	11	7.9	5	--	2.9 J	<1.4	1.8	4.62	3.89	3.25	3.29	1.95	3.02
TDS	mg/L	290	312	292	276	262	290	296	273	279	--	250	246	268	257	252	253	256	256	237
Appendix IV																				
Antimony	mg/L	0.00238 J	<0.0006	<0.0006	<0.0006	<0.0006	0.000718 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00155 J	0.00227 J	0.00206 J	0.00179 J	0.00171 J	0.00232 J	0.00151 J	0.00298 J	--	0.00196 J	0.00219 J	0.00188 J	0.00177 J	0.00112 J	<0.001	0.00152 J	0.00108	0.0012	0.000926
Barium	mg/L	0.0277	0.0261	0.0251	0.0189	0.0186	0.0196	0.0228	0.0188	--	0.0141	0.0179	0.0168	0.0209	0.0202	0.0168	0.0206	0.018	0.0179	0.0188
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.00395 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000333 J	0.000313 J	0.000311 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	9.45e-005 J	<6.8e-005	7.44e-005 J
Combined Radium	pCi/L	1 U	-0.317 U	-0.0583 U	0.127 U	0.406 U	-0.00408 U	--	0.22 U	--	0.0982 U	-0.237 U	0.601	-0.0724 U	0.645	0.362 U	0.398 U	0.53 U	0.0496 U	0.465 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0042 J	0.00283 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000895	0.000718	0.00107
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-9																		
		04/04/2016	05/23/2016	07/12/2016	09/13/2016	11/15/2016	02/28/2017	05/24/2017	06/20/2017	08/16/2017	01/10/2018	04/17/2018	10/01/2018	04/01/2019	09/17/2019	02/17/2020	07/29/2020	04/05/2021	09/21/2021	05/02/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	0.0256 J	0.021 J	<0.02	<0.02	0.0213 J	--	0.0386 J	<0.02	<0.03	<0.03	<0.03	<0.03	0.0314 J	<0.03	<0.03
Calcium	mg/L	32.3	31.3	31.6	31.2	31.5	29.7	30.4	30.8	30.5	--	32.9	32.4	32.3	32.7	33.2	32.4	31.7	31.5	30.9
Chloride	mg/L	5.89	5.2	5.71	5.88	6.04	8.6	9.3	7.8	7.6	--	7.5	8.9	8.42	8.59	8.74	8.93	9.25	9.17	8.5
Fluoride	mg/L	0.109 J	0.1 J	0.11 J	0.075 J	0.023 J	0.11	0.11	0.12	0.11	0.12	0.12	0.14	0.136	0.128	0.15	0.116	0.15	0.181	0.122 J
pH_Field	pH	7.32	7.66	7.77	7.7	7.69	7.66	7.64	7.62	7.51	7.72	7.57	7.59	7.64	8.07	7.75	7.66	7.8	7.72	7.7
Sulfate	mg/L	13.5	1.78	0.915 J	<0.3	0.96 J	5.5	18	13	14	--	14	11	14.3	13.9	14.7	14.7	15.1	18.4	17.9
TDS	mg/L	182	184	176	170	180	203	199	178	205	--	193	198	205	207	211	215	211	205	209
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000662 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00191 J	0.00213 J	0.00183 J	0.00168 J	0.00181 J	0.00404 J	0.00161 J	0.00155 J	--	0.00227 J	0.00174 J	0.00275 J	0.00269 J	0.00324 J	0.00246 J	0.00222 J	0.00234	0.00308	0.00208
Barium	mg/L	0.0789	0.0733	0.102	0.0793	0.0882	0.111	0.0914	0.0948	--	0.0836	0.0979	0.118	0.105	0.118	0.109	0.105	0.104	0.114	0.114
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000295 J	0.000323 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.0417 U	0.208 U	0.436 U	0.775	0.42 U	--	0.53	--	0.903	0.293 U	1.07	0.334	0.194 U	0.38 U	0.28 U	0.843 U	1.05 U	0.891
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00344 J	0.00306 J	<0.002	<0.002	<0.002	<0.002	0.00364 J	0.00282 J	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000821	0.00102	0.0012
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-10																		
		03/30/2016	05/17/2016	07/13/2016	09/13/2016	11/15/2016	02/28/2017	05/22/2017	06/19/2017	08/14/2017	01/10/2018	04/16/2018	10/02/2018	04/03/2019	09/16/2019	02/17/2020	07/22/2020	04/05/2021	09/21/2021	05/02/2022
Appendix III																				
Boron	mg/L	0.0291 J	0.0466 J	0.0305 J	<0.02	<0.02	<0.02	<0.02	0.0204 J	0.0242 J	--	0.0466 J	0.0228 J	<0.03	<0.03	<0.03	<0.03	0.0854 J	0.0378 J	0.0358 J
Calcium	mg/L	38.2	33.9	36.7	38.1	38	39.4	37.4	37.4	36.4	--	38.7	39.7	39.9	39.1	39.7	38.5	40	38.4	37.8
Chloride	mg/L	4.59	3.94	3.32	2.91	2.75	3.2	3.7	3.7	3.1	--	3.3	2.6	2.64	2.54	2.61	2.53	3.88	3.39	3.2
Fluoride	mg/L	0.052 J	0.088 J	0.06 J	0.019 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	<0.032	0.04 J	0.04 J	<0.05	<0.05	0.051 J	<0.06	0.0627 J	0.0847 J	<0.06
pH_Field	pH	7.45	7.68	7.71	7.53	7.53	7.58	7.51	7.53	7.52	7.64	7.54	7.54	7.6	7.6	7.61	7.64	6.93	7.02	7.12
Sulfate	mg/L	9.91	7.27	4.11	2.86	2.16	3.7 J	2.6 J	2.8 J	3.4 J	--	3.4 J	2.6 J	3.81	3.39	3.56	3.65	11.4	5.56	4.75
TDS	mg/L	195	189	179	168	180	180	178	165	185	--	181	161	166	168	170	175	184	174	173
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000753 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00105 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000311	0.000239	0.000251
Barium	mg/L	0.0139	0.0188	0.0139	0.0121	0.0132	0.0148	0.0116	0.0113	--	0.0117	0.0145	0.0124	0.0129	0.0135	0.0127	0.0141	0.0142	0.0129	0.0132
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000275 J	0.000253 J	0.000258 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.364 U	0.347 U	0.567	0.305 U	0.346 U	--	0.614	--	0.629	0.0363 U	0.613	0.26 U	0.307 U	0.379 U	0.185 U	0.579 U	0.802 U	0.349 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000248	0.000183 J	0.000212
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	0.000548 J
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-11																		
		03/30/2016	05/18/2016	07/13/2016	09/13/2016	11/14/2016	02/28/2017	05/22/2017	06/19/2017	08/14/2017	01/09/2018	04/16/2018	10/04/2018	04/03/2019	09/16/2019	02/17/2020	07/22/2020	04/05/2021	09/21/2021	05/02/2022
Appendix III																				
Boron	mg/L	0.112	0.118	0.125	0.108	0.126	0.12	0.116	0.12	0.124	--	0.163	0.206	0.216	0.207	0.221	0.205	0.271	0.283	0.324
Calcium	mg/L	36.4	34.7	36.4	35.6	36.2	35.4	34.4	34.8	34.6	--	37.4	40.8	44.1	40.2	41	39	40.1	40.9	43.4
Chloride	mg/L	6.36	5.93	5.93	5.92	5.95	6.7	7.1	6.2	6.7	--	6.2	6.9	6.35	6.49	6.66	6.75	7.09	7.14	6.86
Fluoride	mg/L	0.026 J	0.068 J	0.049 J	0.018 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.04 J	<0.05	<0.05	0.0546 J	<0.06	0.0634 J	0.0847 J	<0.06
pH_Field	pH	7.63	7.64	7.84	7.69	7.7	7.79	7.72	7.73	7.67	7.82	7.71	7.71	7.75	7.71	7.74	7.76	7.63	7.64	7.16
Sulfate	mg/L	32.2	30.8	32.4	30.9	32.1	32	32	33	34	--	33	37	44.2	49.2	45.2	45.3	50.1	55.4	58.3
TDS	mg/L	184	186	192	187	185	198	185	189	135	--	174	208	200	207	209	216	217	217	234
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000823 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000237	0.00017 J	0.000177 J
Barium	mg/L	0.00993 J	0.011	0.012	0.01	0.00973 J	0.00989 J	0.00911 J	0.00908 J	--	0.00832 J	0.00942 J	0.00817 J	0.00993 J	0.00956 J	0.0088 J	0.0082 J	0.00832	0.00893	0.00969
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000743 J	0.000923 J	0.000651 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.224 U	0.177 U	0.216 U	0.318 U	0.551	--	0.418 U	--	0.402 U	0.437 U	0.703	0.2 U	0.507 U	0.568	0.24 U	0.13 U	0.0771 U	0.355 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00033	0.000264	0.000376
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-12																		
		03/30/2016	05/18/2016	07/13/2016	09/12/2016	11/14/2016	02/28/2017	05/24/2017	06/21/2017	08/14/2017	01/09/2018	04/16/2018	10/04/2018	04/03/2019	09/16/2019	02/18/2020	07/27/2020	04/05/2021	09/22/2021	05/03/2022
Appendix III																				
Boron	mg/L	0.287	0.286	0.299	0.302	0.323	0.336	0.342	0.342	0.359	--	0.384	0.503	0.401	0.423	0.433	0.444	0.427	0.447	0.465
Calcium	mg/L	63.4	57.5	62.9	60.1	61.4	62.6	62.3	63	60.6	--	64.6	74.5	67.8	69.5	73.1	65.7	64.8	67.3	70.9
Chloride	mg/L	21.4	19.6	19.6	19.7	19.7	22	22	21	21	--	20	21	19.7	19.8	19.6	19.8	19.7	19.7	18.9
Fluoride	mg/L	0.039 J	0.078 J	0.058 J	0.023 J	<0.01	<0.032	0.05 J	0.05 J	0.04 J	0.04 J	0.04 J	0.04 J	<0.05	0.0538 J	0.0571 J	<0.06	0.0733 J	0.0887 J	<0.06
pH_Field	pH	7.39	7.34	7.52	7.39	7.42	7.46	7.39	7.36	7.36	7.45	7.36	7.37	7.37	7.44	7.42	7.47	6.88	7.48	7.39
Sulfate	mg/L	85	83.8	86.2	91.8	91.2	86	92	88	100	--	91	76	102	108	110	108	96.8	131	97
TDS	mg/L	353	343	352	346	322	353	234	372	372	--	365	372	372	377	378	378	372	375	371
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000648 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000871 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00148 J	0.00194 J	0.0021 J	0.00456 J	0.00241 J	0.0022 J	0.00564	0.00257 J	--	0.00886	0.00754	0.0081	0.00726	0.00538	0.00269 J	0.0041 J	0.00276	0.00529	0.00205
Barium	mg/L	0.0644	0.0794	0.0735	0.072	0.0768	0.0695	0.0671	0.0629	--	0.0658	0.0666	0.0667	0.073	0.0819	0.0726	0.077	0.0751	0.0815	0.0752
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000278 J	0.000394 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000113 J	0.000156 J	0.000224
Combined Radium	pCi/L	1 U	0.678	0.707	1.04	0.586	1.09	--	1.05	--	1.22	0.769	1.5	0.669	1.04	1.34	1.85	1.2	1.4	1.09 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000366	0.000296	0.000331
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-13																		
		03/30/2016	05/18/2016	07/14/2016	09/12/2016	11/14/2016	02/28/2017	05/24/2017	06/21/2017	08/14/2017	01/09/2018	04/19/2018	10/05/2018	04/03/2019	09/17/2019	02/19/2020	07/27/2020	04/06/2021	09/22/2021	05/02/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	0.0762 J	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	46.6	46.1	45.6	44.1	46	45	44.3	44.7	43.5	--	45.8	46.8	46.9	48.3	46.7	45.5	43.8	46.6	50.2
Chloride	mg/L	4.69	4.35	4.33	4.4	4.76	6.1	5.4	5.2	5.6	--	4.6	5.1	4.85	4.83	5.02	5.2	5.06	4.8	4.32
Fluoride	mg/L	0.042 J	0.08 J	0.06 J	0.028 J	<0.01	0.04 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	<0.05	0.0753 J	0.06 J	<0.06	0.0794 J	0.117	<0.06
pH_Field	pH	7.27	7.37	7.51	7.39	7.37	7.32	7.44	7.39	7.39	7.5	7.38	7.25	7.41	7.45	7.42	7.48	7.5	7.59	7.46
Sulfate	mg/L	<0.3	0.492 J	0.38 J	<0.3	<0.3	<1.4	<1.4	<1.4	<1.4	--	<1.4	<1.4	0.925 J	<0.5	0.571 J	<0.5	<0.5	0.521 J	<0.6
TDS	mg/L	202	207	203	205	197	221	204	218	217	--	201	208	201	204	206	202	193	210	201
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.000748 J	0.000755 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000661	0.000523	0.000435
Barium	mg/L	0.0337	0.038	0.0338	0.0331	0.0353	0.0388	0.0344	0.0302	--	0.0321	0.0361	0.0336	0.0363	0.0396	0.0381	0.0395	0.0389	0.0444	0.0414
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000353 J	0.000318 J	0.000265 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000142 J	<6.8e-005	0.000136 J
Combined Radium	pCi/L	1 U	0.539	0.652	0.325 U	0.734	0.629	--	0.637	--	0.825	0.546 U	1.04	0.577	0.958 U	0.702	0.986	0.66 U	0.834 U	0.412 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000106 J	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000329	0.000312	0.000363
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-14																		
		03/28/2016	05/17/2016	07/11/2016	09/13/2016	11/15/2016	02/27/2017	05/24/2017	06/21/2017	08/15/2017	01/09/2018	04/19/2018	10/05/2018	04/03/2019	09/17/2019	02/19/2020	07/23/2020	04/06/2021	09/22/2021	04/27/2022
Appendix III																				
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	124	74.6	68.9	80.3	102	77.9	72.9	80	72.1	--	59.6	123	63.1	74.9	69.9	88.6	78.2	80	105
Chloride	mg/L	2.11	2.38	2.42	2.34	2.55	5.8	5.9	3.6	4.9	--	6.5	3.5	5.72	4.16	4.9	3.1	3.37	3.5	4.1
Fluoride	mg/L	0.084 J	0.098 J	0.086 J	0.061 J	<0.01	0.12	0.12	0.1	0.12	0.14	0.13	0.1	0.106	0.116	0.122	0.0954 J	0.124	0.149	0.0652 J
pH_Field	pH	7.34	7.22	7.32	7.35	7.32	7.38	7.41	7.26	7.33	7.5	7.48	7.05	7.43	7.3	7.52	7.44	7.51	7.5	7.07
Sulfate	mg/L	66.6	63.9	57.6	82.8	118	62 J	56	75	67	--	53	160	75.2	131	110	97.9	77.5	116	118
TDS	mg/L	308	314	319	354	452	339	316	376	340	--	304	544	336	439	363	399	342	394	417
Appendix IV																				
Antimony	mg/L	0.000985 J	<0.0006	<0.0006	<0.0006	<0.0006	0.00076 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000939 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0048 J	0.0016 J	0.00112 J	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	0.00113 J	<0.001	<0.001	0.00108 J	<0.001	<0.001	0.000441	0.000574	0.00047
Barium	mg/L	0.0952	0.0437	0.0496	0.0493	0.0634	0.0593	0.0476	0.0481	--	0.0505	0.0574	0.0776	0.0619	0.0745	0.0653	0.0686	0.0659	0.0739	0.0763
Beryllium	mg/L	0.00119 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.00133	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00577 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000234 J	0.000302 J	0.00025 J
Cobalt	mg/L	0.00969 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.119 U	0.51 U	0.413 U	0.707	0.479 U	--	0.529	--	0.91	-0.42 U	0.955	0.189 U	0.558 U	0.404 U	1.48	0.875 U	0.44 U	0.753 U
Lead	mg/L	0.0202	0.00114 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	7.71e-005 J
Lithium	mg/L	0.0107 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	0.00361 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000298	0.000522	0.000515
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-15R																			
		07/11/2016	08/22/2016	09/14/2016	11/15/2016	01/03/2017	02/27/2017	05/22/2017	06/20/2017	08/14/2017	01/09/2018	04/19/2018	10/05/2018	04/03/2019	05/07/2019	09/18/2019	02/25/2020	07/28/2020	04/06/2021	09/28/2021	05/02/2022
Appendix III																					
Boron	mg/L	0.829	0.835	0.838	0.894	0.897	0.897	0.892	0.91	0.906	--	0.991	4.34	4.18	4.13	3.47	3.13	2.7	2.54	2.34	2.36
Calcium	mg/L	38.1	37.3	36.5	36.8	38	36.8	36.9	36.9	39.5	--	43.4	163	209	175	139	120	102	98.6	92.5	93.2
Chloride	mg/L	23	23.3	23.6	23.8	24.1	27	28	27	27	--	32	120	156	180	142	138	110	105	98.3	79.9
Fluoride	mg/L	0.076 J	0.067 J	0.036 J	<0.01	<0.01	0.06 J	0.07 J	0.07 J	0.07 J	0.08 J	0.08 J	0.1	0.104	0.0937 J	0.094 J	0.0995 J	0.0738 J	0.116	0.09 J	0.08 J
pH_Field	pH	7.58	7.56	7.52	7.57	7.62	7.52	7.52	7.46	7.57	7.64	7.51	7.33	7.7	7.57	7.5	7.64	7.5	7.64	7.63	7.49
Sulfate	mg/L	133	134	130	132	143	130	120	120	140	--	150	260	339	351	283	326	239	230	245	224
TDS	mg/L	359	349	340	324	348	347	348	343	332	--	369	762	810	810	704	674	606	590	566	574
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000947 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00113 J	0.000998 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	0.0015 J	0.00207 J	0.0016 J	<0.001	0.00129 J	0.00101 J	0.000767	0.000835	0.000558
Barium	mg/L	0.0302	0.0267	0.0247	0.0273	0.026	0.0301	0.0274	0.0292	--	0.0316	0.0368	0.0818	0.134	0.0774	0.0799	0.0693	0.0635	0.0541	0.0615	0.0563
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000777 J	0.000309 J	0.000212 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000352	0.0004	0.000299
Combined Radium	pCi/L	0.302 U	0.613	0.301 U	0.538 U	0.394 U	0.129 U	--	0.362 U	--	1.35	0.438 U	1.47	1.16	1.36	0.94	0.669	2.35	1.2	1.04 U	1.14 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0133 J	0.0167 J	0.019 J	0.024 J	0.0305 J	0.038 J	0.0451 J	0.043 J	--	0.0595	0.0793	0.113	0.149	0.164	0.186	0.0848	0.0559	0.0423	0.0326	0.0278
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0542	0.0577	0.0627	0.0712	0.0788	0.121	0.117	0.121	--	0.138	0.141	0.214	0.433	0.292	0.307	0.209	0.167	0.156	0.137	0.144
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GROUNDWATER MONITORING WELLS																		
		GN-AP-MW-16																		
		03/29/2016	05/17/2016	07/14/2016	09/13/2016	11/14/2016	02/28/2017	05/24/2017	06/19/2017	08/14/2017	01/09/2018	04/19/2018	10/01/2018	04/03/2019	09/16/2019	02/25/2020	07/28/2020	04/05/2021	09/28/2021	04/27/2022
Appendix III																				
Boron	mg/L	1.32	1.35	1.32	1.31	1.34	1.28	1.24	1.26	1.24	--	1.34	1.29	1.32	1.4	1.39	1.33	1.43	1.42	1.44
Calcium	mg/L	43.2	41.4	41.9	39.6	41	41.8	39.8	40.2	41.3	--	42.3	41.5	45.8	61.3	50	48.1	57.6	65.3	71.6
Chloride	mg/L	10.8	10	10.1	10.4	10.4	12	12	11	12	--	12	14	15.9	20.4	17.7	17.4	19.8	28.9	35.8
Fluoride	mg/L	0.118 J	0.151 J	0.124 J	0.089 J	0.022 J	0.1	0.12	0.13	0.12	0.13	0.13	0.15	0.13	0.126	0.133	0.124	0.159	0.125	0.0766 J
pH_Field	pH	8.15	8.18	8.23	8.25	8.31	8.31	8.22	8.18	8.32	8.21	8.28	8.14	8.3	7.94	8.38	8.02	7.76	8.2	8.17
Sulfate	mg/L	146	140	135	129	131	130	130	110	140	--	130	80	150	147	161	143	172	188	191
TDS	mg/L	277	261	255	264	249	251	257	258	263	--	247	252	275	293	284	284	333	354	369
Appendix IV																				
Antimony	mg/L	0.000838 J	<0.0006	<0.0006	<0.0006	<0.0006	0.000632 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00385 J	0.00337 J	0.00407 J	0.00394 J	0.0037 J	0.00409 J	0.00419 J	0.00424 J	--	0.00505	0.00484 J	0.00466 J	0.00469 J	0.00492 J	0.00495 J	0.00535	0.00452	0.00593	0.00552
Barium	mg/L	0.031	0.0313	0.0336	0.0286	0.0296	0.0315	0.0275	0.0279	--	0.0273	0.0307	0.0295	0.0327	0.0393	0.0353	0.0355	0.0421	0.051	0.0514
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	9.99e-005 J	<6.8e-005	9.85e-005 J
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000319 J	0.000315 J	0.00021 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000679	0.000946	0.000704
Combined Radium	pCi/L	2.84251 U	3.09	2.65	3.22	4.18	3.61	--	3	--	3.76	3.32	2.91	3.43	3.55	2.99	3.49	4.28	4.67	4.33
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0774	0.0738	0.0788	0.0748	0.0851	0.0766	0.0722	0.0693	--	0.0781	0.0752	0.076	0.0808	0.0926	0.0951	0.0903	0.111	0.126	0.127
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.288	0.269	0.305	0.306	0.305	0.368	0.275	0.26	--	0.316	0.275	0.267	0.317	0.32	0.343	0.328	0.514	0.538	0.519
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-17																		
		03/29/2016	05/17/2016	07/14/2016	09/13/2016	11/16/2016	02/28/2017	05/24/2017	06/19/2017	08/14/2017	01/09/2018	04/19/2018	10/01/2018	04/03/2019	09/17/2019	02/26/2020	07/29/2020	04/06/2021	09/29/2021	04/20/2022
Appendix III																				
Boron	mg/L	3.04	3.1	2.96	2.94	2.96	2.92	2.66	2.7	2.64	--	2.87	2.83	2.92	3.25	3.24	3.06	3.48	3.37	3.43
Calcium	mg/L	77.4	70.3	73	70.7	51.7	73.1	70.6	67.7	72.8	--	80.8	102	116	131	102	103	159	177	232
Chloride	mg/L	14.7	13.8	13.8	14.1	14.2	17	17	16	17	--	21	30	38	43.2	27.7	26.5	52.8	94.3	186
Fluoride	mg/L	0.221 J	0.241 J	0.213 J	0.168 J	0.103 J	0.22	0.2	0.21	0.22	0.24	0.22	0.25	0.182	0.187	0.189	0.185	0.179	0.211	0.128
pH_Field	pH	9.66	9.56	9.63	9.57	9.59	9.56	9.71	9.67	9.62	9.77	9.59	9.48	9.56	9.18	9.61	9.38	9.59	9.33	9.25
Sulfate	mg/L	254	251	246	238	234	240	230	200	250	--	250	280	346	322	351	309	421	425	444
TDS	mg/L	451	432	434	432	412	434	425	424	428	--	455	492	536	592	561	566	772	842	967
Appendix IV																				
Antimony	mg/L	0.00107 J	0.000869 J	0.000882 J	0.000807 J	0.000801 J	0.00129 J	0.000774 J	0.000792 J	--	0.000904 J	0.000731 J	<0.0008	0.00135 J	<0.0008	<0.0008	0.000845 J	0.000633 J	<0.000508	0.000684 J
Arsenic	mg/L	0.0125	0.0112	0.013	0.0124	0.0121	0.0127	0.0121	0.0129	--	0.0138	0.0125	0.0118	0.0106	0.0109	0.011	0.00947	0.00999	0.00941	0.00851
Barium	mg/L	0.0849	0.0891	0.0965	0.0811	0.0833	0.0897	0.0673	0.0767	--	0.074	0.088	0.0898	0.105	0.12	0.105	0.0978	0.119	0.119	0.12
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.000357 J	0.000216 J	0.000277 J	0.000203 J	0.00027 J	0.000351 J	0.000339 J	0.000318 J	--	<0.0003	0.000415 J	0.000491 J	0.00051 J	<0.0003	<0.0003	<0.0003	0.000391	0.000341	0.000466
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000347 J	0.000285 J	0.000371 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	1 U	0.792	0.864	1.01	1.27	0.347 U	--	0.317 U	--	1.07	1.31	0.793	0.907	2.09	1.35	1.85	0.689 U	1.18	1.12 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.646	0.613	0.616	0.592	0.603	0.562	0.561	0.543	--	0.621	0.591	0.628	0.716	0.785	0.752	0.731	1.01	1.03	1.02
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	2.19	2.24	2.1	2.3	1.92	2.6	1.77	1.9	--	2.14	1.87	1.95	2.33	2.33	2.83	2.79	3.56	3.23	2.99
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	7.98e-005 J

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-18																		
		03/29/2016	05/17/2016	07/18/2016	09/14/2016	11/14/2016	02/28/2017	05/24/2017	06/19/2017	08/14/2017	01/09/2018	04/19/2018	10/01/2018	04/03/2019	09/18/2019	02/25/2020	07/22/2020	04/06/2021	09/28/2021	04/26/2022
Appendix III																				
Boron	mg/L	1.33	1.37	1.31	1.28	1.31	1.29	1.17	1.24	1.19	--	1.3	1.26	1.27	1.47	1.38	1.37	1.44	1.58	1.65
Calcium	mg/L	104	110	109	101	105	108	102	107	105	--	113	123	139	126	119	117	121	122	149
Chloride	mg/L	11.1	10.3	10.3	10.3	10.3	12	13	12	12	--	12	13	12.1	12.2	12.2	12.3	12.4	13.2	13.5
Fluoride	mg/L	0.04 J	0.079 J	0.058 J	0.025 J	<0.01	0.04 J	0.05 J	0.05 J	0.05 J	0.05 J	0.05 J	0.06 J	0.0678 J	0.0551 J	0.0701 J	0.0628 J	<0.06	0.0839 J	<0.06
pH_Field	pH	6.95	6.87	6.85	6.9	6.89	6.83	6.87	6.89	6.89	6.95	6.89	6.89	6.9	6.86	6.89	6.54	6.67	6.48	6.77
Sulfate	mg/L	163	159	154	143	151	140	150	140	150	--	140	140	168	173	210	180	181	205	216
TDS	mg/L	560	540	546	542	514	536	536	598	550	--	540	514	560	592	578	594	596	608	596
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000728 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00273 J	0.00237 J	0.0024 J	0.00243 J	0.00232 J	0.00259 J	0.00229 J	0.00248 J	--	0.00276 J	0.00259 J	0.00288 J	0.0067	0.00308 J	0.00265 J	0.00331 J	0.00272	0.00416	0.00281
Barium	mg/L	0.0435	0.0451	0.0428	0.0415	0.0422	0.0466	0.0382	0.0408	--	0.0394	0.0434	0.0424	0.045	0.0524	0.0474	0.05	0.0483	0.0525	0.0515
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000334 J	0.000291 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000633	0.00132	0.0016
Combined Radium	pCi/L	1 U	1.2	1.19	1.31	1.29	0.727	--	0.98	--	1.79	0.981	1.54	1.49	1.25	1.13	2.35	1.68	1.94	1.34
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0396 J	0.04 J	0.0439 J	0.0371 J	0.0398 J	0.032 J	0.0331 J	0.0342 J	--	0.0382 J	0.0358 J	0.0386	0.0393	0.0492	0.0465	0.0507	0.05	0.0506	0.0464
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.017	0.0167	0.0161	0.0183	0.0171	0.0209	0.0168	0.0173	--	0.0211	0.0186	0.0192	0.0214	0.0243	0.0228	0.0244	0.0307	0.0592	0.0598
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.000428 J	0.000343 J	0.000359 J	0.000345 J	0.000367 J	0.000359 J	0.000376 J	0.000379 J	--	0.000312 J	0.000418 J	0.000371 J	0.00034 J	0.000479 J	0.000426 J	0.000456 J	0.000389	0.000358	0.000448

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-19																		
		03/28/2016	05/18/2016	07/13/2016	09/13/2016	11/16/2016	02/27/2017	05/22/2017	06/21/2017	08/14/2017	01/10/2018	04/19/2018	10/02/2018	04/01/2019	09/18/2019	02/18/2020	07/27/2020	04/05/2021	09/22/2021	04/19/2022
Appendix III																				
Boron	mg/L	0.0538 J	0.0252 J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	0.0258 J	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	46	42.9	43.1	44.1	42.7	43.1	41.9	41.8	43	--	43.2	43.8	45.6	45.6	45.5	42.6	42.6	42.1	39.5
Chloride	mg/L	9.86	9.4	10.3	9.68	10.2	12	12	12	12	--	11	<1.4	11.9	11.6	11.4	12.1	12.6	12.8	13.7
Fluoride	mg/L	0.083 J	0.092 J	0.064 J	0.03 J	<0.01	<0.032	0.04 J	0.05 J	0.04 J	0.04 J	0.04 J	0.05 J	0.0563 J	0.0507 J	0.0557 J	<0.06	0.088 J	0.0965 J	<0.06
pH_Field	pH	7.24	7.5	7.63	7.53	7.55	7.53	7.5	7.51	7.43	7.5	7.5	7.57	7.58	7.6	7.64	7.56	7.66	7.86	7.63
Sulfate	mg/L	16.8	14.9	24.2	16.8	21.7	23	26	20	22	--	24	24	24.4	23.6	25.6	23.7	23.1	25.9	27.6
TDS	mg/L	213	206	225	212	224	223	219	164	232	--	218	212	225	222	215	223	220	218	225
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.00123 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00463 J	0.00511	0.004 J	0.00488 J	0.00513	0.00425 J	0.00252 J	0.00314 J	--	0.00294 J	0.00298 J	0.00361 J	0.0024 J	0.00322 J	0.00196 J	0.00221 J	0.00228	0.00221	0.00196
Barium	mg/L	0.037	0.0492	0.0555	0.0421	0.042	0.0407	0.0271	0.024	--	0.0195	0.0208	0.0186	0.0188	0.0211	0.0163	0.0165	0.0149	0.0162	0.0141
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000316 J	0.000237 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	9.07e-005 J	0.00011 J	0.000168 J
Combined Radium	pCi/L	1 U	0.425	0.584	0.46 U	1.58	0.326 U	--	0.143 U	--	0.67	0.316 U	0.854	0.263 U	0.29 U	0.779	1.68	0.959 U	0.368 U	0.66 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0157	0.0125	0.0138	0.0127	0.0118	0.0145	0.0122	0.0123	--	0.0127	0.0111	0.0113	0.0132	0.0128	0.0129	0.0133	0.0137	0.0136	0.0146
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-20																		
		03/29/2016	05/18/2016	07/13/2016	09/14/2016	11/14/2016	02/28/2017	05/24/2017	06/19/2017	08/14/2017	01/09/2018	04/19/2018	10/01/2018	04/03/2019	09/18/2019	02/25/2020	07/22/2020	04/12/2021	09/28/2021	04/20/2022
Appendix III																				
Boron	mg/L	3.48	3.61	3.7	3.53	3.51	3.44	3.31	3.48	3.4	--	3.74	3.73	3.77	4.12	4.14	3.86	4.29	4.32	4.49
Calcium	mg/L	163	160	158	156	156	150	150	153	159	--	192	184	206	172	178	161	161	170	192
Chloride	mg/L	17.2	16.2	16.2	16.2	16.1	18	18	18	18	--	17	19	17.9	18.7	19	19.3	19.8	20	19.9
Fluoride	mg/L	0.035 J	0.076 J	0.053 J	0.022 J	<0.01	<0.032	0.04 J	0.04 J	0.04 J	0.04 J	0.04 J	0.05 J	0.0657 J	<0.05	0.0566 J	<0.06	0.0644 J	0.0828 J	<0.06
pH_Field	pH	7.96	7.88	7.92	7.85	7.84	7.81	7.65	7.79	7.82	7.87	7.85	7.82	7.45	7.9	7.9	7.84	7.96	7.76	7.83
Sulfate	mg/L	556	559	560	553	551	560	530	510	540	--	520	590	577	526	674	568	547	583	575
TDS	mg/L	862	882	874	908	804	930	886	924	872	--	880	866	910	908	930	934	926	922	946
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000643 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00424 J	0.00409 J	0.00512	0.00411 J	0.00365 J	0.00369 J	0.00369 J	0.00397 J	--	0.00428 J	0.00374 J	0.00372 J	0.00398 J	0.00425 J	0.0043 J	0.00349 J	0.00368	0.00424	0.00405
Barium	mg/L	0.0691	0.074	0.0784	0.0658	0.0634	0.0676	0.0551	0.0604	--	0.0562	0.0634	0.061	0.0599	0.0651	0.0595	0.0612	0.0589	0.0603	0.0554
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000123 J	7.99e-005 J	0.000101 J
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00038 J	0.000288 J	0.000271 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	17.244	19.9	18.1	20.3	17.2	13.9	--	15.6	--	14.7	11.6	15.7	13.8	15.7	12.9	15.6	15.6	15.4	1.49
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.118	0.12	0.135	0.115	0.114	0.0991	0.103	0.104	--	0.112	0.106	0.11	0.115	0.131	0.137	0.125	0.139	0.137	0.119
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.637	0.657	0.774	0.725	0.63	0.767	0.623	0.667	--	0.803	0.689	0.775	0.803	0.837	0.813	0.784	0.811	0.845	0.798
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-21																		
		07/13/2016	08/22/2016	09/13/2016	11/15/2016	01/03/2017	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/10/2018	04/17/2018	10/04/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021	05/03/2022
Appendix III																				
Boron	mg/L	1.63	1.32	1.85	2.12	2.01	1.47	1.41	1.38	2.04	--	1.66	2.58	1.5	2.51	2.28	1.84	1.75	1.67	1.52
Calcium	mg/L	66.6	52.8	68	75.2	80.9	58	56.3	56.8	54.5	--	64.5	102	61.1	98.3	95.5	80.8	72.7	73.4	73
Chloride	mg/L	34.8	25.1	34.1	40.1	38.5	23	21	22	21	--	29	58	27	64	56.3	47	44.8	40.1	30.6
Fluoride	mg/L	0.118 J	0.117 J	0.068 J	<0.01	<0.01	0.04 J	0.04 J	0.04 J	<0.032	0.06 J	<0.032	0.07 J	<0.05	0.0749 J	0.0804 J	<0.06	0.0739 J	0.0914 J	<0.06
pH_Field	pH	7.83	7.86	7.75	7.66	7.57	7.53	7.78	7.82	7.73	7.67	7.66	7.51	7.67	7.15	7.43	7.58	7.24	7.64	7.48
Sulfate	mg/L	159	107	155	172	163	140	140	130	150	--	150	180	189	197	199	177	145	162	131
TDS	mg/L	468	393	428	452	418	346	386	363	364	--	410	506	401	504	490	476	432	443	388
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00666	0.0088	0.00489 J	0.00395 J	0.00343 J	0.00348 J	0.00294 J	0.00286 J	--	0.00318 J	0.00195 J	0.00309 J	0.00134 J	0.00239 J	0.00116 J	0.00166 J	0.00103	0.00103	0.00138
Barium	mg/L	0.0425	0.0214	0.0628	0.06	0.0348	0.0395	0.0279	0.0255	--	0.033	0.0205	0.0314	0.0146	0.0362	0.0339	0.0223	0.0375	0.0408	0.0497
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00032 J	0.000367 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000374	0.000238	0.00116
Combined Radium	pCi/L	0.355 U	0.816	0.761	1.43	1.11	0.378 U	--	0.224 U	--	1.11	0.367 U	1.05	0.182 U	0.435 U	0.032 U	0.275 U	1.12 U	0.815 U	0.435 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0119	0.00256 J	0.00628 J	0.0105	0.0131	0.00593 J	0.00491 J	0.00392 J	--	0.0126	0.00623 J	0.0159	0.00611 J	0.0172	0.0139	0.00969 J	0.00838	0.00769	0.0106
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-22																		
		07/14/2016	08/22/2016	09/13/2016	11/15/2016	01/03/2017	03/01/2017	05/23/2017	06/20/2017	08/15/2017	01/09/2018	04/17/2018	10/04/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021	05/03/2022
Appendix III																				
Boron	mg/L	1.73	1.66	1.85	2.09	1.89	1.88	1.87	1.88	1.87	--	2.04	2.22	2.03	2.1	2.15	1.97	1.61	1.44	0.977
Calcium	mg/L	61.5	71.3	70.3	69	77.4	77.4	76.6	83.6	81.8	--	94.1	99.5	134	102	95.9	92.3	79.7	77.7	66.7
Chloride	mg/L	26.9	37.6	30	22.7	26.5	56	48	58	61	--	61	61	67.3	46.3	62.2	66.1	38.9	28.6	14.8
Fluoride	mg/L	0.096 J	0.088 J	0.054 J	<0.01	<0.01	0.06 J	0.07 J	0.06 J	0.06 J	0.07 J	0.06 J	0.08 J	0.0613 J	0.065 J	0.0687 J	<0.06	0.0834 J	0.0934 J	0.0819 J
pH_Field	pH	7.74	7.55	7.63	7.74	7.69	7.47	7.5	7.37	7.26	7.49	7.33	7.47	7.33	7.21	7.33	7.43	6.7	7.23	7.21
Sulfate	mg/L	172	170	171	173	183	170	180	160	170	--	160	150	212	180	196	175	124	114	74.2
TDS	mg/L	435	426	430	404	428	484	460	485	488	--	477	467	522	460	497	500	409	402	308
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000678 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00305 J	0.00169 J	0.00207 J	0.00321 J	0.00261 J	0.00135 J	0.00151 J	<0.001	--	<0.001	<0.001	<0.001	<0.001	0.00129 J	<0.001	<0.001	0.000184 J	0.000175 J	9.26e-005 J
Barium	mg/L	0.103	0.0662	0.0644	0.132	0.098	0.0423	0.0359	0.0396	--	0.034	0.043	0.0353	0.0471	0.0458	0.0439	0.0406	0.0352	0.036	0.0276
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000307 J	0.000309 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000333	0.000308	0.000146 J
Combined Radium	pCi/L	0.711	0.615	0.878	0.671	1	0.534	--	0.344 U	--	0.452 U	0.185 U	0.568	0.503	0.165 U	0.693	0.41 U	0.365 U	0.892 U	0.617 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0633	0.0436	0.069	0.094	0.0783	0.0627	0.0684	0.0637	--	0.0789	0.0638	0.0698	0.0703	0.0895	0.0691	0.0677	0.0456	0.0383	0.0333
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-17SV						GN-AP-MW-20SV							GN-AP-MW-20V					
		09/18/2019	02/26/2020	07/23/2020	04/06/2021	09/29/2021	04/20/2022	05/07/2019	09/18/2019	02/25/2020	07/22/2020	04/12/2021	09/28/2021	04/20/2022	09/18/2019	02/25/2020	07/22/2020	04/12/2021	09/28/2021	04/19/2022
Appendix III																				
Boron	mg/L	2.51	2.55	2.4	2.58	2.53	2.61	--	2.28	2.27	2.64	3.13	2.94	2.91	2.91	2.92	2.79	3.05	2.94	3.07
Calcium	mg/L	101	87.1	87	99.9	103	140	--	128	123	132	132	135	143	124	124	119	121	127	140
Chloride	mg/L	29.6	28.8	27.9	34.4	41.9	59.6	--	14.7	17.8	23.1	19.2	18	17.8	15.9	16.4	18.5	24.4	23.4	22
Fluoride	mg/L	0.12	0.124	0.131	0.129	0.12	0.0941 J	0.101	0.0879 J	0.0976 J	0.0955 J	0.108	0.0942 J	0.0669 J	0.0523 J	0.0724 J	<0.06	0.0733 J	0.0697 J	<0.06
pH_Field	pH	7.13	7.55	7.54	7.56	7.61	7.63	7.11	7.14	7.16	7.18	7.02	6.87	7.1	8.32	8.31	8.25	8.14	8.03	8.11
Sulfate	mg/L	260	302	276	297	304	323	--	379	470	432	421	423	441	481	599	507	499	528	501
TDS	mg/L	499	495	513	572	568	636	--	680	708	744	768	740	748	784	802	814	844	850	856
Appendix IV																				
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	--	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00215 J	0.00199 J	0.00191 J	0.00217	0.00207	0.00174	--	0.00253 J	0.00243 J	0.0042 J	0.00339	0.00296	0.0018	<0.001	<0.001	0.00105 J	0.002	0.00222	0.00298
Barium	mg/L	0.0667	0.066	0.0673	0.0751	0.0826	0.0906	--	0.0982	0.0912	0.12	0.127	0.132	0.12	0.0241	0.0239	0.0242	0.0273	0.0312	0.0285
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	--	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	0.000173 J	0.000104 J	0.000116 J	--	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	8.86e-005 J
Chromium	mg/L	<0.002	<0.002	<0.002	0.000346 J	0.000268 J	0.000268 J	--	<0.002	<0.002	<0.002	0.000305 J	0.0003 J	<0.000203	<0.002	<0.002	<0.002	0.000634 J	0.00155	0.000216 J
Cobalt	mg/L	0.00327 J	0.00265 J	0.00251 J	0.00202	0.00206	0.00247	--	0.00207 J	<0.002	<0.002	0.000454	0.00054	0.000499	<0.002	<0.002	<0.002	<6.8e-005	0.000225	<6.8e-005
Combined Radium	pCi/L	1.56	0.489 U	1.26 U	1.13	1.23	1.72	--	1.14	0.925	1.46	1.51	2.92	2.27	2.02	1.78	1.7	2.14	2.87	3.27
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	7.26e-005 J	--	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	0.000234	0.000718	0.00115
Lithium	mg/L	0.129	0.193	0.153	0.251	0.196	0.227	--	0.0108 J	0.0117 J	<0.01	0.00768 J	0.00723 J	0.0074 J	0.0399	0.0421	0.0423	0.0463	0.0451	0.0422
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.801	1.02	0.968	1.26	1.11	1.17	--	0.264	0.257	0.147	0.146	0.147	0.175	0.271	0.281	0.288	0.311	0.324	0.337
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	--	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	0.000225 J	0.000254 J	0.000181 J	0.000213	0.000259	--	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-17V						GN-AP-MW-16V						GN-AP-MW-23D					
		09/17/2019	02/26/2020	07/23/2020	04/06/2021	09/29/2021	04/26/2022	09/16/2019	02/25/2020	07/28/2020	04/05/2021	09/28/2021	04/27/2022	09/18/2019	02/19/2020	07/21/2020	04/06/2021	09/21/2021	04/20/2022
Appendix III																			
Boron	mg/L	2.07	2.22	1.93	2.16	2.03	2.13	1.38	1.4	1.34	1.39	1.37	1.38	1.42	1.54	1.42	1.46	1.46	1.46
Calcium	mg/L	94	66.6	62	72.8	71.5	87.1	38.7	38.8	38.6	40.4	42.3	49.3	41.9	61.5	37.8	34.3	51.9	34.4
Chloride	mg/L	30.8	27.2	27	34.5	39.2	71.5	23.5	25.1	20.7	19.8	23.3	30.8	60.7	64	65.3	58.7	55.7	56.9
Fluoride	mg/L	0.0925 J	0.101	0.0891 J	0.0995 J	0.0713 J	<0.06	0.0935 J	0.0992 J	0.0811 J	0.136	0.0851 J	<0.06	0.0623 J	<0.05	0.0713 J	0.105	0.102	<0.06
pH_Field	pH	8.66	8.84	8.49	8.6	8.3	8.39	8.32	8.61	8.09	8.54	8.59	8.45	7.72	7.92	7.63	7.89	8.08	7.86
Sulfate	mg/L	243	288	254	288	283	287	137	146	137	150	177	173	102	119	51.1	33.5	80.7	42.6
TDS	mg/L	458	467	457	525	509	578	275	288	274	289	297	318	378	436	331	309	407	320
Appendix IV																			
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	0.000804 J	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00136 J	0.00123 J	0.00128 J	0.00122	0.0015	0.00112	0.00111 J	0.00105 J	0.00117 J	0.00117	0.0012	0.00114	0.00255 J	<0.001	0.00175 J	0.0022	0.00102	0.00178
Barium	mg/L	0.0475	0.0547	0.0424	0.0491	0.0502	0.0556	0.0503	0.0507	0.052	0.0482	0.0547	0.0583	0.027	0.052	0.0336	0.0353	0.0582	0.0399
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	0.000249	0.000167 J	0.000314	<0.0003	<0.0003	<0.0003	8.25e-005 J	8.11e-005 J	9.83e-005 J	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.000443 J	0.000331 J	<0.000203	<0.002	<0.002	<0.002	0.00044 J	0.00033 J	<0.000203	<0.002	<0.002	<0.002	0.000305 J	0.000354 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	0.0001 J	<6.8e-005	6.96e-005 J	<0.002	<0.002	<0.002	0.000888	0.000872	0.000985	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	6.44	5.34	8.21	10.9	11	11.6	3.26	2.46	2.99	2.4	3.09	2.56	0.0448 U	0.384 U	0.608	0.312 U	0.618 U	0.757 U
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.432	0.465	0.405	0.522	0.467	0.505	0.312	0.318	0.307	0.319	0.318	0.339	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	1.73	1.89	1.99	2.22	2.12	2.06	0.625	0.629	0.628	0.614	0.653	0.696	0.0054 J	0.0077 J	0.00231 J	0.00163	0.00537	0.00098
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	0.000604 J	0.000552 J	0.000514 J	0.000465	0.000466	0.000601	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-32V						GN-AP-MW-33V						GN-AP-MW-34V					
		10/22/2019	02/26/2020	07/20/2020	03/30/2021	09/27/2021	04/26/2022	10/23/2019	02/25/2020	07/21/2020	03/30/2021	09/22/2021	04/26/2022	10/22/2019	02/19/2020	07/21/2020	03/30/2021	09/29/2021	04/27/2022
Appendix III																			
Boron	mg/L	0.489	0.446	0.369	0.399	0.401	0.417	0.309	0.337	0.247	0.231	0.145	0.131	2.65	2.82	2.69	2.85	2.81	2.93
Calcium	mg/L	39.8	43.5	69.3	60.5	59.6	56	59	56.6	46.8	45.8	40.4	61.6	119	124	121	122	118	157
Chloride	mg/L	19.1	20.1	43.1	45.3	38.1	35.9	18.6	29.2	27.7	27	21.6	18.8	18.3	17.5	18.1	19	19.7	19
Fluoride	mg/L	0.127	0.143	0.169	0.216	0.245	0.16	0.181	0.235	0.313	0.29	0.363	0.177	0.193	0.13	0.118	0.106	0.136	<0.06
pH_Field	pH	8.49	8.01	7.42	7.86	8.14	7.84	7.59	7.72	7.51	7.82	7.78	7.42	8.14	8.09	7.98	7.88	8.44	7.86
Sulfate	mg/L	125	119	169	144	150	130	72.7	55.5	24.4	17.4	36	36.8	486	492	496	452	496	484
TDS	mg/L	292	315	521	483	447	433	334	353	333	329	354	303	820	802	816	810	844	788
Appendix IV																			
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00197 J	0.00438 J	<0.001	0.0046	0.00523	0.00424	0.00358 J	0.00476 J	0.0111	0.00882	0.0209	0.0135	0.00302 J	0.00393 J	0.00401 J	0.00303	0.00231	0.00284
Barium	mg/L	0.0331	0.0489	0.0555	0.0584	0.0631	0.0603	0.0459	0.0549	0.0654	0.0593	0.064	0.0461	0.0559	0.0576	0.0477	0.0392	0.041	0.0376
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.000277 J	0.000288 J	<0.000203	<0.002	<0.002	<0.002	0.000264 J	0.000227 J	0.000219 J	<0.002	<0.002	<0.002	0.000281 J	0.000319 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	7.56e-005 J	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.94	1.42	1.4	1.47	1.64	1.83	1.09	0.967	1.34	1.41	1.67	1.21	0.822	0.991	1.28	0.371 U	1.81	1.22
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0757	0.0717	0.0659	0.07	0.0706	0.0663	0.128	0.164	0.127	0.12	0.0901	0.0711	0.0329	0.038	0.0378	0.0396	0.0365	0.0396
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.273	0.259	0.0857	0.0352	0.0407	0.0332	0.196	0.126	0.0306	0.0174	0.0124	0.0192	0.315	0.344	0.352	0.273	0.209	0.285
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	0.000733 J
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-31VR					GN-AP-MW-36V					GN-AP-MW-35V					GN-AP-MW-37V				
		04/29/2020	07/27/2020	04/05/2021	09/29/2021	04/27/2022	04/29/2020	07/20/2020	03/30/2021	09/22/2021	04/26/2022	04/29/2020	07/21/2020	03/30/2021	09/29/2021	04/27/2022	04/29/2020	07/20/2020	03/30/2021	09/27/2021	04/26/2022
Appendix III																					
Boron	mg/L	0.204	0.157	0.171	0.155	0.125	0.182	0.222	0.208	0.18	0.162	0.184	0.148	0.143	0.117	0.223	0.317	0.393	0.526	0.51	0.434
Calcium	mg/L	56.5	41.5	33.1	30.2	39.7	39.1	43.3	33.7	30.3	28.8	50	43.7	38.8	37.6	42.8	44.9	40.6	40.1	40.1	41.1
Chloride	mg/L	25.4	33	30.6	29.9	22.8	145	209	195	168	137	5.78	8.95	11.3	11.3	8.01	12.9	12.4	13.1	13.6	14.1
Fluoride	mg/L	0.269	0.428	0.558	0.656	0.39	0.397	0.407	0.405	0.452	0.436	0.141	0.157	0.187	0.223	0.0993 J	0.164	0.158	0.169	0.187	0.152
pH_Field	pH	7.68	7.97	8.19	8.47	7.71	8.05	8.07	8.11	7.93	8.03	7.71	7.69	7.91	7.83	8	7.94	7.8	8.04	7.88	7.9
Sulfate	mg/L	93.9	49.6	21.7	13.7	24.1	214	259	199	192	165	39	43.4	39.4	38.5	37.3	99.9	94.9	97.3	104	91.3
TDS	mg/L	373	361	319	309	272	742	896	767	673	596	227	249	252	275	255	273	252	262	249	250
Appendix IV																					
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00315 J	0.00185 J	0.00359	0.00475	0.00989	0.00178 J	<0.001	0.00131	0.00172	0.00175	<0.001	0.00222 J	0.00223	0.00232	0.00208	0.0042 J	0.00169 J	0.000664	0.000484	0.000726
Barium	mg/L	0.0364	0.0318	0.0267	0.0281	0.0287	0.0831	0.0841	0.0792	0.0847	0.0799	0.0163	0.0199	0.0184	0.019	0.017	0.0336	0.0352	0.0355	0.0367	0.0353
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	0.000397 J	0.000257 J	<0.000203	<0.002	<0.002	0.000287 J	0.000286 J	<0.000203	<0.002	<0.002	0.000237 J	0.00023 J	<0.000203	<0.002	<0.002	0.000245 J	0.000379 J	0.000208 J
Cobalt	mg/L	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	0.35 U	0.288 U	0.716 U	0.463 U	0.735 U	1.42	1.54	1.83	1.95	1.32	0.455 U	0.537	0.768 U	1.27	1 U	3.65	4.06	4.78	4	4.41
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.007105	0.0284	0.0358	0.0297	0.0246	0.018 J	<0.01	<0.01	<0.007105	<0.007105	<0.007105	0.0377	0.0522	0.0615	0.061	0.0446
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0456	0.0199	0.0133	0.0129	0.0169	0.0994	0.0698	0.0663	0.0506	0.0459	0.0266	0.0268	0.0205	0.0199	0.0128	0.208	0.213	0.227	0.221	0.176
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-29H						GN-AP-MW-28H						GN-AP-MW-23S					
		09/17/2019	02/25/2020	07/29/2020	04/05/2021	09/28/2021	04/26/2022	09/16/2019	02/25/2020	07/29/2020	04/05/2021	09/28/2021	04/27/2022	09/17/2019	02/19/2020	07/21/2020	04/06/2021	09/21/2021	04/20/2022
Appendix III																			
Boron	mg/L	1.18	1.21	1.16	1.2	1.16	1.22	0.805	0.789	0.779	0.796	0.788	0.798	0.735	1.2	0.743	0.672	0.541	0.584
Calcium	mg/L	48.5	46.8	43.9	44.7	46.9	50.9	46.7	42.6	39.6	39.9	39.7	42.3	66.8	73.5	64.2	55.2	48.9	59.1
Chloride	mg/L	20.5	25.5	25.5	25.2	26.8	29.6	15.6	16.9	17.5	17.2	18.3	19.8	44.7	42	45	30.7	20.6	23.8
Fluoride	mg/L	0.0669 J	0.0683 J	0.0608 J	0.078 J	0.0614 J	<0.06	0.0768 J	0.0778 J	0.067 J	0.0933 J	0.0653 J	<0.06	0.0892 J	0.0647 J	0.0903 J	0.109	0.105	<0.06
pH_Field	pH	8.44	8.48	8.38	8.16	8.58	8.29	8.22	8.32	8.3	7.91	8.38	7.83	6.88	7.36	7.28	7.23	7.27	6.43
Sulfate	mg/L	161	177	163	168	172	180	126	134	134	133	133	135	67.1	69.4	59.8	46.3	39.6	40.1
TDS	mg/L	331	330	328	345	340	359	276	276	278	287	269	282	342	357	318	280	246	276
Appendix IV																			
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00222 J	0.00235 J	0.00237 J	0.00227	0.00222	0.00191	0.0036 J	0.00352 J	0.0032 J	0.00321	0.0028	0.00278	<0.001	<0.001	<0.001	0.00026	0.000169 J	0.000175 J
Barium	mg/L	0.0567	0.0581	0.0549	0.0577	0.0597	0.0611	0.0321	0.0304	0.0305	0.0309	0.0345	0.0328	0.0316	0.0443	0.0312	0.0282	0.0229	0.0254
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	0.000153 J	7.27e-005 J	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	8.74e-005 J	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.000293 J	0.000332 J	<0.000203	<0.002	<0.002	<0.002	0.000648 J	0.000319 J	0.000362 J	<0.002	<0.002	<0.002	0.000261 J	0.000306 J	0.000256 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	7.43e-005 J	<0.002	<0.002	<0.002	0.000304	0.000192 J	0.000244	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium	pCi/L	13.2	13.7	16.2	18.7	16.8	17.9	4.63	5.25	7.14	6.64	6.47	5.85	0.732	0.752	0.566	1 U	0.337 U	0.419 U
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	0.000129 J	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.289	0.307	0.303	0.323	0.302	0.309	0.141	0.14	0.147	0.148	0.142	0.14	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	1.04	1.09	0.999	1.01	1.01	1.06	0.469	0.464	0.483	0.471	0.491	0.489	0.0142	0.0274	0.0181	0.0175	0.0146	0.0172
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	0.000683 J	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	0.000149 J	0.000116 J	0.000192 J	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-26						GN-AP-MW-27						GN-AP-MW-30H					
		09/18/2019	02/19/2020	07/22/2020	04/07/2021	09/22/2021	04/20/2022	09/18/2019	02/25/2020	07/21/2020	04/06/2021	09/21/2021	05/02/2022	10/22/2019	02/19/2020	07/23/2020	04/06/2021	09/29/2021	05/02/2022
Appendix III																			
Boron	mg/L	1.33	1.34	1.18	1.16	1.13	1.03	1.23	0.352	0.658	0.214	0.129	0.18	0.0484 J	0.0595 J	0.0482 J	0.0485 J	0.0481 J	0.049 J
Calcium	mg/L	81.8	73.7	67.7	69.3	68	73.2	81.7	31.5	54.3	25.9	22.3	29.5	89.1	83.8	79.1	78	78.8	90.7
Chloride	mg/L	41.5	43.2	37	40.3	29.7	22.3	56.7	22.1	35	17.4	13	12.8	32.3	31.5	30.4	34.4	31.9	31.7
Fluoride	mg/L	<0.05	<0.05	<0.06	0.0741 J	0.0852 J	<0.06	0.0618 J	0.0554 J	0.0959 J	0.0752 J	<0.06	0.0641 J	0.187	0.236	0.17	0.193	0.19	0.152
pH_Field	pH	7.49	7.54	7.42	7.57	7.76	6.87	6.68	6.7	6.9	6.26	6.58	6.74	7.18	7.22	7.07	7.15	7.73	7.14
Sulfate	mg/L	142	143	131	124	118	93.7	120	26.5	69.6	18.3	12.1	14.9	23.4	43.2	35.3	37.8	28.7	25.1
TDS	mg/L	433	423	406	406	379	354	412	173	288	143	114	152	396	463	440	426	415	412
Appendix IV																			
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	0.000148 J	0.000117 J	0.000116 J	<0.001	<0.001	<0.001	0.000159 J	0.000182 J	0.000221	0.00169 J	0.00651	0.00536	0.00801	0.00696	0.00548
Barium	mg/L	0.0192	0.0166	0.0174	0.0177	0.0179	0.0173	0.04	0.0149	0.0251	0.0151	0.0139	0.0158	0.0702	0.109	0.0899	0.082	0.0813	0.0718
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.0003 J	0.000325 J	0.000218 J	<0.002	<0.002	<0.002	0.000362 J	0.000274 J	<0.000203	<0.002	<0.002	<0.002	0.000317 J	0.000384 J	0.000211 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	0.00127	0.00112	0.00125
Combined Radium	pCi/L	0.976	0.475 U	0.713	0.472 U	1.2 U	0 U	1.01	0.269 U	0.488 U	0.21 U	0 U	0.305 U	1.13	0.994	2.13	1.8	1.7	0.758 U
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.01	0.0107 J	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	0.0027 J	0.00202	0.00244	0.00242	0.0187	0.00511 J	0.0141	0.00355	0.00298	0.00553	0.00346 J	0.00389 J	0.00248 J	0.00231	0.00213	0.00195
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-1															
		03/29/2016	03/30/2016	05/19/2016	07/12/2016	09/13/2016	11/15/2016	02/28/2017	05/23/2017	06/19/2017	08/15/2017	01/10/2018	04/17/2018	10/01/2018	04/01/2019	05/09/2019	09/17/2019
Appendix III																	
Boron	mg/L	<0.02	--	<0.02	<0.02	<0.02	0.0246 J	<0.02	<0.02	<0.02	<0.02	--	0.0459 J	<0.02	<0.03	--	<0.03
Calcium	mg/L	45.6	--	49.7	53.8	53.5	55.1	55.3	55.7	55.1	57	--	56.4	57.2	59.2	--	60.7
Chloride	mg/L	2.16	--	2.11	2.93	2.91	2.72	3.5	3.7	3.2	2.9	--	3.3	2.3	4.75	--	4.14
Fluoride	mg/L	0.058 J	--	0.093 J	0.092 J	0.045 J	<0.01	0.07 J	0.08 J	0.08 J	0.08 J	0.08 J	0.08 J	0.1	0.0791 J	--	0.0876 J
pH_Field	pH	7.39	--	7.35	7.46	7.43	7.42	7.36	7.33	7.34	7.31	7.36	7.24	7.36	7.41	7.33	7.62
Sulfate	mg/L	15.9	--	18	24.6	11.6	9.07	10	16	13	16	--	20	23	33.1	--	28.3
TDS	mg/L	274	--	270	289	275	258	291	260	270	284	--	263	270	294	302	285
Appendix IV																	
Antimony	mg/L	0.00112 J	--	0.000818 J	<0.0006	<0.0006	<0.0006	0.000622 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.0013 J	--	<0.0008
Arsenic	mg/L	0.00412 J	--	0.00313 J	0.00459 J	0.00531	0.00571	0.00766	0.00528	0.00513	--	0.00565	0.00762	0.00529	0.00679	--	0.00422 J
Barium	mg/L	0.017	--	0.0161	0.02	0.0176	0.02	0.0247	0.0187	0.0172	--	0.0195	0.024	0.0225	0.0266	--	0.0282
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003
Chromium	mg/L	0.00233 J	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.00439 J	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	--	<0.002
Combined Radium	pCi/L	1 U	1 U	0.949	0.73	0.948	1.28	0.232 U	--	1.02	--	0.707	0.467 U	0.864	0.564	--	0.43 U
Lead	mg/L	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	0.0182 J	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	--	<0.01
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	--	<0.0003
Molybdenum	mg/L	0.0463	--	0.0326	0.0164	0.0072 J	0.00598 J	0.00869 J	0.0132	0.0128	--	0.0153	0.0124	0.0131	0.0191	--	0.017
Selenium	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Southern Company

Analyte	Units	GN-AP-MW-2													
		03/28/2016	05/18/2016	07/11/2016	09/14/2016	11/16/2016	03/01/2017	05/23/2017	06/19/2017	08/15/2017	01/10/2018	04/19/2018	10/03/2018	04/01/2019	09/18/2019
Appendix III															
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03
Calcium	mg/L	34.2	32.6	32.5	32.1	33.4	33.3	32.7	32.6	31.5	--	34.2	38.6	35.8	35
Chloride	mg/L	1.73	1.4	1.73	2.24	3.57	3.4	2.4	1.9 J	5.4	--	1.8 J	<1.4	1.36	1.53
Fluoride	mg/L	0.028 J	0.064 J	0.054 J	0.016 J	<0.01	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.04 J	<0.05	<0.05
pH_Field	pH	7.79	7.73	7.99	7.75	7.64	7.65	7.67	7.65	7.69	7.8	7.54	7.68	7.76	7.69
Sulfate	mg/L	2.09	1.92	3.41	4.94	10.5	5.1	2.3 J	2.1 J	1.7 J	--	<1.4	1.7 J	1.87	2.39
TDS	mg/L	138	156	167	166	192	186	158	156	168	--	154	156	160	154
Appendix IV															
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00062 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.000946 J	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.00105 J	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.00887 J	0.00816 J	0.0096 J	0.00964 J	0.0247	0.0282	0.0187	0.0164	--	0.0149	0.0147	0.0131	0.0116	0.0118
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium	pCi/L	1 U	0.142 U	0.279 U	0.205 U	0.373 U	0.217 U	--	0.357 U	--	0.239 U	-0.125 U	0.185 U	0.162 U	-0.0854 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	0.00274 J	<0.002	<0.002	<0.002	0.00215 J	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000265 J	0.000239 J	0.000202 J	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantita

Appendix B

Appendix B
Plant Gaston Ash Pond
Tabulated Historical Groundwater Elevations
(2016-2022)

Well Name	Top of Casing Elevation	Groundwater Elevation (ft NAVD)							
		3/28/2016	4/12/2016	5/16/2016	7/11/2016	9/12/2016	11/14/2016	2/27/2017	5/22/2017
GN-AP-MW-1	460.54	432.03	432.34	431.33	430.58	430.48	429.35	431.57	431.52
GN-AP-MW-2	445.67	432.56	433.79	432.71	432.69	432.59	432.16	432.74	433.43
GN-AP-MW-3	447.14	431.94	433.27	432.11	429.73	432.14	431.81	432.17	433.04
GN-AP-MW-4	440.57	430.53	435.66	428.25	426.12	425.2	423.27	428.82	428.34
GN-AP-MW-5	431.30	421.08	425.56	419.52	417.43	417.26	416.08	420.74	419.54
GN-AP-MW-6	427.85	417.77	422.98	417.07	416.02	415.82	415.39	417.91	417.21
GN-AP-MW-7	420.02	415.16	416.66	414.16	410.16	409.45	407.55	415.11	413.72
GN-AP-MW-8	429.63	416.93	419.7	416.49	410.2	409.65	405.81	416.88	416.24
GN-AP-MW-9	424.85	419.49	420.21	419.25	417.27	416.92	414.77	419.49	419.47
GN-AP-MW-10	425.69	419.79	421.17	419.5	418.98	418.44	417.24	419.95	420.14
GN-AP-MW-11	425.39	420.7	422.27	420.24	419.63	419.52	419.1	421.01	420.62
GN-AP-MW-12	425.22	424.82	424.85	424.54	424.12	424.12	422.77	424.85	424.79
GN-AP-MW-13	424.04	423.76	--	423.84	423.74	423.79	423.26	423.89	423.75
GN-AP-MW-14	427.20	399.19	399.5	399.25	399.07	399.53	399.84	401.55	399.86
GN-AP-MW-15R	442.60	--	--	--	402.9	402.84	402.82	403.12	403.36
GN-AP-MW-16	422.30	402.65	403.22	402.6	402.75	402.53	402.38	402.81	402.83
GN-AP-MW-17	407.75	407.55	407.5	407.64	407.51	407.54	407.75	407.75	407.75
GN-AP-MW-18	416.13	395.92	396.37	395.86	396.12	395.85	395.89	395.88	395.8
GN-AP-MW-19	416.16	412.84	413.89	412.24	412.06	412.02	411.25	412.47	412.81
GN-AP-MW-20	406.65	398.36	398.95	398.4	398.4	398.14	397.79	398.28	398.11
GN-AP-MW-21	428.25	--	--	--	416.3	416.14	415.6	418.34	417.54
GN-AP-MW-22	427.11	--	--	--	416.7	416.55	415.59	419.65	418.52
GN-AP-MW-16V	422.88	--	--	--	--	--	--	--	--
GN-AP-MW-17V	405.25	--	--	--	--	--	--	--	--
GN-AP-MW-17SV	406.92	--	--	--	--	--	--	--	--
GN-AP-MW-20V	406.25	--	--	--	--	--	--	--	--
GN-AP-MW-20SV	405.78	--	--	--	--	--	--	--	--
GN-AP-PZ-23D	428.69	--	--	--	--	--	--	--	--
GN-AP-PZ-23S	429.15	--	--	--	--	--	--	--	--
GN-AP-MW-26	425.51	--	--	--	--	--	--	--	--
GN-AP-MW-27	428.35	--	--	--	--	--	--	--	--
GN-AP-MW-28H	413.90	--	--	--	--	--	--	--	--
GN-AP-MW-29H	407.06	--	--	--	--	--	--	--	--
GN-AP-MW-30H	437.87	--	--	--	--	--	--	--	--
GN-AP-MW-31V	438.49	--	--	--	--	--	--	--	--
GN-AP-MW-31VR	438.65	--	--	--	--	--	--	--	--
GN-AP-MW-32V	453.77	--	--	--	--	--	--	--	--
GN-AP-MW-33V	454.29	--	--	--	--	--	--	--	--
GN-AP-MW-34V	447.98	--	--	--	--	--	--	--	--
GN-AP-MW-35V	449.39	--	--	--	--	--	--	--	--
GN-AP-MW-36V	454.37	--	--	--	--	--	--	--	--
GN-AP-MW-37V	453.46	--	--	--	--	--	--	--	--
GN-AP-MW-38	404.93	--	--	--	--	--	--	--	--
GN-AP-MW-39	416.71	--	--	--	--	--	--	--	--
GN-AP-MW-40	414.32	--	--	--	--	--	--	--	--
GN-AP-MW-41	407.28	--	--	--	--	--	--	--	--
GN-AP-MW-42	433.01	--	--	--	--	--	--	--	--

Appendix B
Plant Gaston Ash Pond
Tabulated Historical Groundwater Elevations
(2016-2022)

Well Name	Top of Casing Elevation	Groundwater Elevation (ft NAVD)							
		6/19/2017	8/14/2017	1/9/2018	4/16/2018	10/1/2018	4/1/2019	9/16/2019	2/17/2020
GN-AP-MW-1	460.54	432.42	432.63	431.16	432.58	431.3	432.14	428.36	--
GN-AP-MW-2	445.67	433.55	433.62	433.19	433.75	433.85	431.74	429.25	--
GN-AP-MW-3	447.14	433.2	433.25	432.93	433.29	433.73	430.71	428.11	432.58
GN-AP-MW-4	440.57	430.38	431.53	427.56	435.31	424.26	428.29	420.57	438.60
GN-AP-MW-5	431.30	421.89	423.55	419.9	425.45	419.16	419.87	413.86	426.28
GN-AP-MW-6	427.85	418.02	418.47	417.53	419.32	416.76	417.51	413.47	419.02
GN-AP-MW-7	420.02	415.21	415.14	414.44	416.34	412	415.41	407.47	416.58
GN-AP-MW-8	429.63	416.99	417.28	416.29	417.83	414.2	417.11	406.9	417.98
GN-AP-MW-9	424.85	419.65	419.45	419.4	420.19	418.58	419.52	415.75	419.84
GN-AP-MW-10	425.69	420.11	420.16	412.35	420.52	419.58	420.91	418.03	420.44
GN-AP-MW-11	425.39	421.21	421.48	419.94	422.21	420.37	422.06	419.35	422.02
GN-AP-MW-12	425.22	424.81	424.78	424.78	425.22	425.22	425.22	423.48	425.22
GN-AP-MW-13	424.04	423.71	424.04	423.69	424.04	424.04	424.04	424.04	424.04
GN-AP-MW-14	427.20	399.88	400.5	399.27	399.96	399.88	399.71	399.42	401.33
GN-AP-MW-15R	442.60	403.51	403.59	403.35	403.87	403.19	403.47	402.2	404.02
GN-AP-MW-16	422.30	402.99	403.2	403.41	403.99	403.3	402.93	402.2	404.01
GN-AP-MW-17	407.75	407.75	407.75	407.75	407.75	407.75	407.75	407.75	407.75
GN-AP-MW-18	416.13	395.88	395.96	396.08	396.43	395.86	396.19	395.96	398.18
GN-AP-MW-19	416.16	413.75	413.96	412.51	414.2	412.8	412.99	409.86	415.86
GN-AP-MW-20	406.65	398.21	398.21	398.4	398.83	398.06	398.57	397.99	400.20
GN-AP-MW-21	428.25	418.62	419.16	417.91	419.93	417.2	417.81	413.5	420.14
GN-AP-MW-22	427.11	420.59	421.65	418.89	423.34	418.13	418.91	413.36	423.61
GN-AP-MW-16V	422.88	--	--	--	--	--	415.81	413.41	413.48
GN-AP-MW-17V	405.25	--	--	--	--	--	404.95	405.25	404.95
GN-AP-MW-17SV	406.92	--	--	--	--	--	398.54	398.5	399.87
GN-AP-MW-20V	406.25	--	--	--	--	--	399.13	398.55	400.72
GN-AP-MW-20SV	405.78	--	--	--	--	--	396.32	396.02	398.23
GN-AP-PZ-23D	428.69	--	--	--	--	--	419.35	413.44	425.61
GN-AP-PZ-23S	429.15	--	--	--	--	--	419.92	413.85	426.02
GN-AP-MW-26	425.51	--	--	--	--	--	416.69	413.14	417.84
GN-AP-MW-27	428.35	--	--	--	--	--	419.95	413.86	426.43
GN-AP-MW-28H	413.90	--	--	--	--	--	408.28	406.7	407.70
GN-AP-MW-29H	407.06	--	--	--	--	--	406.82	407.06	407.06
GN-AP-MW-30H	437.87	--	--	--	--	--	--	--	398.29
GN-AP-MW-31V	438.49	--	--	--	--	--	--	--	398.17
GN-AP-MW-31VR	438.65	--	--	--	--	--	--	--	--
GN-AP-MW-32V	453.77	--	--	--	--	--	--	--	422.87
GN-AP-MW-33V	454.29	--	--	--	--	--	--	--	416.52
GN-AP-MW-34V	447.98	--	--	--	--	--	--	--	406.28
GN-AP-MW-35V	449.39	--	--	--	--	--	--	--	--
GN-AP-MW-36V	454.37	--	--	--	--	--	--	--	--
GN-AP-MW-37V	453.46	--	--	--	--	--	--	--	--
GN-AP-MW-38	404.93	--	--	--	--	--	--	--	--
GN-AP-MW-39	416.71	--	--	--	--	--	--	--	--
GN-AP-MW-40	414.32	--	--	--	--	--	--	--	--
GN-AP-MW-41	407.28	--	--	--	--	--	--	--	--
GN-AP-MW-42	433.01	--	--	--	--	--	--	--	--

Appendix B
Plant Gaston Ash Pond
Tabulated Historical Groundwater Elevations
(2016-2022)

Well Name	Top of Casing Elevation	Groundwater Elevation (ft NAVD)					
		4/29/2020	7/20/2020	3/29/2021	4/12/2021	9/21/2021	4/28/2022
GN-AP-MW-1	460.54	--	--	--	--	--	--
GN-AP-MW-2	445.67	--	--	--	--	--	--
GN-AP-MW-3	447.14	430.40	426.85	430.50	--	429.35	429.37
GN-AP-MW-4	440.57	434.34	421.16	431.37	--	426.36	428.89
GN-AP-MW-5	431.30	424.68	414.32	422.61	--	421.35	420.22
GN-AP-MW-6	427.85	418.05	412.97	417.63	--	417.29	416.85
GN-AP-MW-7	420.02	415.95	411.23	416.10	--	415.28	416.44
GN-AP-MW-8	429.63	417.48	413.37	417.56	--	417.35	417.76
GN-AP-MW-9	424.85	419.64	418.01	419.74	--	419.76	419.91
GN-AP-MW-10	425.69	420.26	419.25	420.64	--	421.00	421.04
GN-AP-MW-11	425.39	421.91	420.2	421.90	--	422.18	422.40
GN-AP-MW-12	425.22	425.22	425.22	425.22	--	425.22	425.22
GN-AP-MW-13	424.04	424.04	424.04	423.20	--	424.04	424.04
GN-AP-MW-14	427.20	400.86	399.95	400.32	--	400.71	399.91
GN-AP-MW-15R	442.60	402.24	400.69	402.11	--	400.03	400.83
GN-AP-MW-16	422.30	401.89	400.96	402.30	--	400.06	399.87
GN-AP-MW-17	407.75	407.75	407.75	406.30	--	404.59	403.49
GN-AP-MW-18	416.13	397.21	395.97	398.51	--	395.92	396.11
GN-AP-MW-19	416.16	414.36	411.22	414.09	--	413.40	414.75
GN-AP-MW-20	406.65	398.59	398.07	400.53	--	397.69	397.86
GN-AP-MW-21	428.25	418.89	412.83	417.80	--	417.37	417.02
GN-AP-MW-22	427.11	422.23	413.5	420.40	--	419.59	418.48
GN-AP-MW-16V	422.88	410.39	407.92	406.78	--	405.34	404.16
GN-AP-MW-17V	405.25	403.83	402.79	403.24	--	401.49	400.79
GN-AP-MW-17SV	406.92	398.15	397.81	399.70	--	397.81	397.59
GN-AP-MW-20V	406.25	398.95	398.44	400.84	--	398.07	398.23
GN-AP-MW-20SV	405.78	396.50	396.06	398.73	--	396.28	396.47
GN-AP-PZ-23D	428.69	423.43	417.62	422.06	--	420.88	420.17
GN-AP-PZ-23S	429.15	424.61	--	422.68	--	421.54	420.42
GN-AP-MW-26	425.51	417.19	--	417.21	--	416.58	416.61
GN-AP-MW-27	428.35	424.52	413.88	422.87	--	421.74	420.67
GN-AP-MW-28H	413.90	405.10	414.27	403.79	--	401.94	401.27
GN-AP-MW-29H	407.06	407.06	412.83	405.87	--	403.81	402.97
GN-AP-MW-30H	437.87	396.08	413.72	398.48	--	395.85	396.26
GN-AP-MW-31V	438.49	397.11	403.59	397.04	--	395.90	396.38
GN-AP-MW-31VR	438.65	396.69	407.06	397.91	--	395.95	396.37
GN-AP-MW-32V	453.77	419.38	395.76	411.74	--	411.11	409.06
GN-AP-MW-33V	454.29	419.90	402.18	410.58	--	409.19	411.88
GN-AP-MW-34V	447.98	404.70	414.34	405.71	--	402.16	402.42
GN-AP-MW-35V	449.39	404.07	413.35	404.33	--	401.57	401.53
GN-AP-MW-36V	454.37	414.34	396.27	410.40	--	408.45	411.74
GN-AP-MW-37V	453.46	417.12	395.97	410.38	--	409.54	408.94
GN-AP-MW-38	404.93	--	--	--	399.27	397.7	399.35
GN-AP-MW-39	416.71	--	--	--	401.81	397.19	399.51
GN-AP-MW-40	414.32	--	--	--	400.89	397.39	400.42
GN-AP-MW-41	407.28	--	--	--	400.37	397.28	399.94
GN-AP-MW-42	433.01	--	--	--	400.1	397.08	399.85

Appendix B
Plant Gaston Ash Pond
Tabulated Historical Groundwater Elevations
(2016-2022)

Well Name	Top of Casing Elevation	Variation and Anomaly Detection					
		Standard Dev	Q1	Q3	IQR	Lowerbound	Upperbound
GN-AP-MW-1	460.54	1.18	430.87	432.29	1.42	428.74	434.42
GN-AP-MW-2	445.67	1.13	432.58	433.60	1.03	431.03	435.14
GN-AP-MW-3	447.14	1.86	430.40	433.08	2.68	426.38	437.10
GN-AP-MW-4	440.57	4.58	426.12	431.41	5.29	418.19	439.35
GN-AP-MW-5	431.30	3.41	419.16	422.85	3.69	413.63	428.37
GN-AP-MW-6	427.85	2.00	416.76	418.03	1.27	414.86	419.93
GN-AP-MW-7	420.02	2.87	412.00	415.99	3.99	406.02	421.97
GN-AP-MW-8	429.63	3.75	414.20	417.50	3.30	409.25	422.45
GN-AP-MW-9	424.85	1.45	418.58	419.75	1.16	416.83	421.49
GN-AP-MW-10	425.69	1.88	419.25	420.55	1.30	417.30	422.50
GN-AP-MW-11	425.39	1.07	420.20	422.03	1.83	417.46	424.78
GN-AP-MW-12	425.22	0.63	424.78	425.22	0.44	424.12	425.88
GN-AP-MW-13	424.04	0.25	423.75	424.04	0.29	423.31	424.48
GN-AP-MW-14	427.20	0.67	399.50	400.37	0.87	398.20	401.66
GN-AP-MW-15R	442.60	1.10	402.21	403.44	1.23	400.36	405.29
GN-AP-MW-16	422.30	1.06	402.30	403.21	0.90	400.94	404.56
GN-AP-MW-17	407.75	1.11	407.54	407.75	0.21	407.23	408.07
GN-AP-MW-18	416.13	0.74	395.88	396.24	0.36	395.35	396.77
GN-AP-MW-19	416.16	1.33	412.24	413.99	1.75	409.61	416.62
GN-AP-MW-20	406.65	0.69	398.07	398.58	0.50	397.31	399.33
GN-AP-MW-21	428.25	1.89	416.48	418.55	2.07	413.38	421.66
GN-AP-MW-22	427.11	2.87	417.06	420.54	3.49	411.83	425.77
GN-AP-MW-16V	422.88	3.99	406.42	413.43	7.01	395.91	423.94
GN-AP-MW-17V	405.25	1.55	402.47	404.95	2.48	398.74	408.68
GN-AP-MW-17SV	406.92	0.81	397.81	398.83	1.02	396.28	400.36
GN-AP-MW-20V	406.25	1.01	398.39	399.53	1.14	396.68	401.24
GN-AP-MW-20SV	405.78	0.98	396.23	396.93	0.71	395.16	397.99
GN-AP-PZ-23D	428.69	3.47	418.92	422.40	3.49	413.69	427.63
GN-AP-PZ-23S	429.15	3.65	420.17	423.65	3.48	414.96	428.86
GN-AP-MW-26	425.51	1.42	416.60	417.20	0.60	415.69	418.11
GN-AP-MW-27	428.35	4.28	418.43	423.28	4.85	411.16	430.56
GN-AP-MW-28H	413.90	3.90	403.33	407.85	4.52	396.55	414.62
GN-AP-MW-29H	407.06	2.76	405.36	407.06	1.70	402.80	409.62
GN-AP-MW-30H	437.87	6.32	396.13	398.43	2.31	392.66	401.89
GN-AP-MW-31V	438.49	2.58	396.54	397.91	1.36	394.50	399.95
GN-AP-MW-31VR	438.65	4.18	396.37	397.91	1.54	394.06	400.22
GN-AP-MW-32V	453.77	8.61	409.57	417.47	7.90	397.73	429.32
GN-AP-MW-33V	454.29	5.61	409.54	415.36	5.82	400.80	424.09
GN-AP-MW-34V	447.98	4.06	402.99	406.14	3.15	398.27	410.86
GN-AP-MW-35V	449.39	4.36	401.57	404.33	2.76	397.43	408.47
GN-AP-MW-36V	454.37	6.28	408.45	411.74	3.29	403.52	416.68
GN-AP-MW-37V	453.46	6.87	408.94	410.38	1.44	406.78	412.54
GN-AP-MW-38	404.93	0.76	398.49	399.31	0.82	397.25	400.55
GN-AP-MW-39	416.71	1.89	398.35	400.66	2.31	394.89	404.13
GN-AP-MW-40	414.32	1.55	398.91	400.66	1.75	396.28	403.28
GN-AP-MW-41	407.28	1.37	398.61	400.16	1.54	396.29	402.47
GN-AP-MW-42	433.01	1.37	398.47	399.98	1.51	396.20	402.24

Appendix C

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative

E.C. Gaston Ash Pond

2022 Compliance Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Due to low yield, wells MW-33V, MW-8 and MW-9 were sampled using the Minimal Purge Method, defined in the Plant Gaston Ash Pond SAP.

Rain was present when pumping and sampling wells MW-33V and MW36V.

Turbidity levels less than 10 NTU were not able to be achieved after extended pumping for well MW-20V. A complete sample set for totals analysis was collected followed by a field filtered set for dissolved analysis.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

Water Level Record/Well Inspection
Groundwater
APC General Testing Laboratory
General Service Complex Building 8

Submit

Date 04/18/2022
Location Gaston Ash Pond
Collector TJ Daugherty
Weather Cloudy 60

			In Good Condition					
Well	Time	Water Level (ft)	Locks	Bollards	Pad	Protective Casing	Name Plate	Comment
MW-3	1054	17.77	✔	✔	✔	✔	✔	DFG
MW-4	1102	11.68	✔	✔	✔	✔	✔	DFG
MW-5	1127	11.08	✔	✔	✔	✔	✔	DFG
MW-6	1118	11	✔	✔	✔	✔	✔	DFG
MW-7	1112	3.58	✔	✔	✔	✔	✔	DFG
MW-8	1107	11.87	✔	✔	✔	✔	✔	DFG
MW-9	1143	4.94	✔	✔	✔	✔	✔	DFG
MW-10	1146	4.65	✔	✔	✔	✔	✔	DFG
MW-11	1150	2.99	✔	✔	✔	✔	✔	DFG
MW-12	1155	0	✔	✔	✔	✔	✔	DFG
MW-13	1158	0	✔	✔	✔	✔	✔	DFG
MW-14	1205	27.29	✔	✔	✔	✔	✔	DFG
MW-15R	1122	41.77	✔	✔	✔	✔	✔	
MW-16	1109	22.43	✔	✔	✔	✔	✔	
MW-16V	1111	18.72	✔	✔	✔	✔	✔	
MW-17	1058	4.26	✔	✔	✔	✔	✔	
MW-17V	1101	4.46	✔	✔	✔	✔	✔	
MW-17SV	1100	9.33	✔	✔	✔	✔	✔	
MW-18	1055	20.02	✔	✔	✔	✔	✔	
MW-19	1042	1.41	✔	✔	✔	✔	✔	
MW-20	1051	8.79	✔	✔	✔	✔	✔	
MW-20V	1047	8.02	✔	✔	✔	✔	✔	
MW-20SV	1048	9.31	✔	✔	✔	✔	✔	
MW-21	1122	11.23	✔	✔	✔	✔	✔	DFG
MW-22	1124	8.63	✔	✔	✔	✔	✔	DFG
MW-23D	1007	8.52	✔	✔	✔	✔	✔	DFG
MW-23S	1005	8.73	✔	✔	✔	✔	✔	DFG
MW-26	1016	8.90	✔	✔	✔	✔	✔	DFG
MW-27	1010	7.68	✔	✔	✔	✔	✔	DFG
MW-28H	1107	12.63	✔	✔	✔	✔	✔	
MW-29H	1105	4.09	✔	✔	✔	✔	✔	
MW-30H	1126	41.61	✔	✔	✔	✔	✔	
MW-31V	1130	42.11	✔	✔	✔	✔	✔	

Water Level Record/Well Inspection
Groundwater
APC General Testing Laboratory
General Service Complex Building 8

Submit

Date: 04/18/2022
Location: Gaston Ash Pond
Collector: TJ Daugherty
Weather: Cloudy 60

			In Good Condition					
Well	Time	Water Level (ft)	Locks	Bollards	Pad	Protective Casing	Name Plate	Comment
MW-31VR	1129	42.28	✔	✔	✔	✔	✔	
MW-32V	1137	44.71	✔	✔	✔	✔	✔	
MW-34V	1155	45.56	✔	✔	✔	✔	✔	
MW-35V	1152	47.86	✔	✔	✔	✔	✔	
MW-36V	1141	42.63	✔	✔	✔	✔		
MW-37V	1135	44.52	✔	✔	✔	✔		
MW-24	1039	10.76	✔	✔	✔	✔	✔	DFG
MW-25	1028	3.90	✔	✔	✔	✔	✔	DFG
APW-1	1201	2.89	✔	✔	✔	✔	✔	DFG
APW-3	1132	31.45	✔	✔	✔	✔	✔	
APW-4	1059	15.70	✔	✔	✔	✔	✔	
APW-6	1146	54.59	✔	✔	✔	✔	✔	
APW-7	1117	39.40	✔	✔	✔	✔	✔	
MW-33V	1143	42.41	✔	✔	✔	✔		
MW-38	1308	5.58	✔	✔	✔	✔	✔	DFG
MW-39	1252	17.20	✔	✔	✔	✔	✔	DFG
MW-40	1300	13.90	✔	✔	✔	✔	✔	
MW-41	1303	7.34	✔	✔	✔	✔	✔	DFG
MW-42	1306	33.16	✔	✔	✔	✔	✔	

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-23D	Conductivity	4/20/2022 10:28	621.48	uS/cm
GN-AP-MW-23D	DO	4/20/2022 10:28	0.86	mg/L
GN-AP-MW-23D	Depth to Water Detail	4/20/2022 10:28	10.25	ft
GN-AP-MW-23D	Oxidation Reduction Potention	4/20/2022 10:28	-194.21	mv
GN-AP-MW-23D	pH	4/20/2022 10:28	7.92	SU
GN-AP-MW-23D	Temperature	4/20/2022 10:28	19.64	C
GN-AP-MW-23D	Turbidity	4/20/2022 10:28	3.03	NTU
GN-AP-MW-23D	Conductivity	4/20/2022 10:33	589.72	uS/cm
GN-AP-MW-23D	DO	4/20/2022 10:33	0.78	mg/L
GN-AP-MW-23D	Depth to Water Detail	4/20/2022 10:33	10.39	ft
GN-AP-MW-23D	Oxidation Reduction Potention	4/20/2022 10:33	-196.19	mv
GN-AP-MW-23D	pH	4/20/2022 10:33	7.88	SU
GN-AP-MW-23D	Temperature	4/20/2022 10:33	19.72	C
GN-AP-MW-23D	Turbidity	4/20/2022 10:33	2.12	NTU
GN-AP-MW-23D	Conductivity	4/20/2022 10:38	585.31	uS/cm
GN-AP-MW-23D	DO	4/20/2022 10:38	0.74	mg/L
GN-AP-MW-23D	Depth to Water Detail	4/20/2022 10:38	10.58	ft
GN-AP-MW-23D	Oxidation Reduction Potention	4/20/2022 10:38	-200.35	mv
GN-AP-MW-23D	pH	4/20/2022 10:38	7.87	SU
GN-AP-MW-23D	Temperature	4/20/2022 10:38	19.76	C
GN-AP-MW-23D	Turbidity	4/20/2022 10:38	1.82	NTU
GN-AP-MW-23D	Conductivity	4/20/2022 10:43	583.82	uS/cm
GN-AP-MW-23D	DO	4/20/2022 10:43	0.72	mg/L
GN-AP-MW-23D	Depth to Water Detail	4/20/2022 10:43	10.7	ft
GN-AP-MW-23D	Oxidation Reduction Potention	4/20/2022 10:43	-204.85	mv
GN-AP-MW-23D	pH	4/20/2022 10:43	7.86	SU
GN-AP-MW-23D	Temperature	4/20/2022 10:43	19.85	C
GN-AP-MW-23D	Turbidity	4/20/2022 10:43	1.88	NTU
GN-AP-MW-23D	Conductivity	4/20/2022 10:48	581.95	uS/cm
GN-AP-MW-23D	DO	4/20/2022 10:48	0.69	mg/L
GN-AP-MW-23D	Depth to Water Detail	4/20/2022 10:48	10.79	ft
GN-AP-MW-23D	Oxidation Reduction Potention	4/20/2022 10:48	-209.33	mv
GN-AP-MW-23D	pH	4/20/2022 10:48	7.86	SU
GN-AP-MW-23D	Sulfide	4/20/2022 10:48	4	mg/L
GN-AP-MW-23D	Temperature	4/20/2022 10:48	19.86	C
GN-AP-MW-23D	Turbidity	4/20/2022 10:48	2.02	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-23S	Conductivity	4/20/2022 11:43	476.27	uS/cm
GN-AP-MW-23S	DO	4/20/2022 11:43	2.49	mg/L
GN-AP-MW-23S	Depth to Water Detail	4/20/2022 11:43	10.37	ft
GN-AP-MW-23S	Oxidation Reduction Potention	4/20/2022 11:43	-8.04	mv
GN-AP-MW-23S	pH	4/20/2022 11:43	6.33	SU
GN-AP-MW-23S	Temperature	4/20/2022 11:43	19.53	C
GN-AP-MW-23S	Turbidity	4/20/2022 11:43	1.35	NTU
GN-AP-MW-23S	Conductivity	4/20/2022 11:48	475.62	uS/cm
GN-AP-MW-23S	DO	4/20/2022 11:48	2.4	mg/L
GN-AP-MW-23S	Depth to Water Detail	4/20/2022 11:48	10.46	ft
GN-AP-MW-23S	Oxidation Reduction Potention	4/20/2022 11:48	-3.86	mv
GN-AP-MW-23S	pH	4/20/2022 11:48	6.36	SU
GN-AP-MW-23S	Temperature	4/20/2022 11:48	19.32	C
GN-AP-MW-23S	Turbidity	4/20/2022 11:48	1.36	NTU
GN-AP-MW-23S	Conductivity	4/20/2022 11:53	471.64	uS/cm
GN-AP-MW-23S	DO	4/20/2022 11:53	2.32	mg/L
GN-AP-MW-23S	Depth to Water Detail	4/20/2022 11:53	10.46	ft
GN-AP-MW-23S	Oxidation Reduction Potention	4/20/2022 11:53	-0.92	mv
GN-AP-MW-23S	pH	4/20/2022 11:53	6.4	SU
GN-AP-MW-23S	Temperature	4/20/2022 11:53	19.29	C
GN-AP-MW-23S	Turbidity	4/20/2022 11:53	1.47	NTU
GN-AP-MW-23S	Conductivity	4/20/2022 11:58	465.44	uS/cm
GN-AP-MW-23S	DO	4/20/2022 11:58	2.34	mg/L
GN-AP-MW-23S	Depth to Water Detail	4/20/2022 11:58	10.46	ft
GN-AP-MW-23S	Oxidation Reduction Potention	4/20/2022 11:58	1.57	mv
GN-AP-MW-23S	pH	4/20/2022 11:58	6.43	SU
GN-AP-MW-23S	Sulfide	4/20/2022 11:58	0	mg/L
GN-AP-MW-23S	Temperature	4/20/2022 11:58	19.41	C
GN-AP-MW-23S	Turbidity	4/20/2022 11:58	1.23	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-26	Conductivity	4/20/2022 12:53	556.22	uS/cm
GN-AP-MW-26	DO	4/20/2022 12:53	4.53	mg/L
GN-AP-MW-26	Depth to Water Detail	4/20/2022 12:53	12.42	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 12:53	21.87	mv
GN-AP-MW-26	pH	4/20/2022 12:53	6.6	SU
GN-AP-MW-26	Temperature	4/20/2022 12:53	17.87	C
GN-AP-MW-26	Turbidity	4/20/2022 12:53	1.1	NTU
GN-AP-MW-26	Conductivity	4/20/2022 12:58	557.35	uS/cm
GN-AP-MW-26	DO	4/20/2022 12:58	4.47	mg/L
GN-AP-MW-26	Depth to Water Detail	4/20/2022 12:58	13	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 12:58	24.62	mv
GN-AP-MW-26	pH	4/20/2022 12:58	6.69	SU
GN-AP-MW-26	Temperature	4/20/2022 12:58	17.92	C
GN-AP-MW-26	Turbidity	4/20/2022 12:58	1.34	NTU
GN-AP-MW-26	Conductivity	4/20/2022 13:03	556.77	uS/cm
GN-AP-MW-26	DO	4/20/2022 13:03	4.36	mg/L
GN-AP-MW-26	Depth to Water Detail	4/20/2022 13:03	13.7	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 13:03	27.37	mv
GN-AP-MW-26	pH	4/20/2022 13:03	6.74	SU
GN-AP-MW-26	Temperature	4/20/2022 13:03	17.85	C
GN-AP-MW-26	Turbidity	4/20/2022 13:03	1.08	NTU
GN-AP-MW-26	Conductivity	4/20/2022 13:08	557.67	uS/cm
GN-AP-MW-26	DO	4/20/2022 13:08	4.2	mg/L
GN-AP-MW-26	Depth to Water Detail	4/20/2022 13:08	14.22	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 13:08	29.47	mv
GN-AP-MW-26	pH	4/20/2022 13:08	6.78	SU
GN-AP-MW-26	Temperature	4/20/2022 13:08	17.78	C
GN-AP-MW-26	Turbidity	4/20/2022 13:08	0.87	NTU
GN-AP-MW-26	Conductivity	4/20/2022 13:13	559.65	uS/cm
GN-AP-MW-26	DO	4/20/2022 13:13	4.06	mg/L
GN-AP-MW-26	Depth to Water Detail	4/20/2022 13:13	14.58	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 13:13	30.4	mv
GN-AP-MW-26	pH	4/20/2022 13:13	6.8	SU
GN-AP-MW-26	Temperature	4/20/2022 13:13	17.79	C
GN-AP-MW-26	Turbidity	4/20/2022 13:13	1.02	NTU
GN-AP-MW-26	Conductivity	4/20/2022 13:18	558.76	uS/cm
GN-AP-MW-26	DO	4/20/2022 13:18	3.92	mg/L
GN-AP-MW-26	Depth to Water Detail	4/20/2022 13:18	14.71	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 13:18	31.56	mv
GN-AP-MW-26	pH	4/20/2022 13:18	6.83	SU
GN-AP-MW-26	Temperature	4/20/2022 13:18	17.84	C
GN-AP-MW-26	Turbidity	4/20/2022 13:18	0.86	NTU
GN-AP-MW-26	Conductivity	4/20/2022 13:23	565.02	uS/cm
GN-AP-MW-26	DO	4/20/2022 13:23	3.86	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-26	Depth to Water Detail	4/20/2022 13:23	14.89	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 13:23	32.67	mv
GN-AP-MW-26	pH	4/20/2022 13:23	6.85	SU
GN-AP-MW-26	Temperature	4/20/2022 13:23	17.85	C
GN-AP-MW-26	Turbidity	4/20/2022 13:23	1.11	NTU
GN-AP-MW-26	Conductivity	4/20/2022 13:28	565.57	uS/cm
GN-AP-MW-26	DO	4/20/2022 13:28	3.74	mg/L
GN-AP-MW-26	Depth to Water Detail	4/20/2022 13:28	15.03	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 13:28	33.46	mv
GN-AP-MW-26	pH	4/20/2022 13:28	6.86	SU
GN-AP-MW-26	Temperature	4/20/2022 13:28	17.93	C
GN-AP-MW-26	Turbidity	4/20/2022 13:28	1.01	NTU
GN-AP-MW-26	Conductivity	4/20/2022 13:33	566.26	uS/cm
GN-AP-MW-26	DO	4/20/2022 13:33	3.65	mg/L
GN-AP-MW-26	Depth to Water Detail	4/20/2022 13:33	15.14	ft
GN-AP-MW-26	Oxidation Reduction Potention	4/20/2022 13:33	34.09	mv
GN-AP-MW-26	pH	4/20/2022 13:33	6.87	SU
GN-AP-MW-26	Sulfide	4/20/2022 13:33	0	mg/L
GN-AP-MW-26	Temperature	4/20/2022 13:33	17.97	C
GN-AP-MW-26	Turbidity	4/20/2022 13:33	0.72	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-38	Conductivity	4/19/2022 11:33	203.63	uS/cm
GN-AP-MW-38	DO	4/19/2022 11:33	2.83	mg/L
GN-AP-MW-38	Depth to Water Detail	4/19/2022 11:33	6.21	ft
GN-AP-MW-38	Oxidation Reduction Potention	4/19/2022 11:33	76.51	mv
GN-AP-MW-38	pH	4/19/2022 11:33	7.56	SU
GN-AP-MW-38	Temperature	4/19/2022 11:33	17.35	C
GN-AP-MW-38	Turbidity	4/19/2022 11:33	5.85	NTU
GN-AP-MW-38	Conductivity	4/19/2022 11:38	203.63	uS/cm
GN-AP-MW-38	DO	4/19/2022 11:38	4.01	mg/L
GN-AP-MW-38	Depth to Water Detail	4/19/2022 11:38	6.21	ft
GN-AP-MW-38	Oxidation Reduction Potention	4/19/2022 11:38	66.02	mv
GN-AP-MW-38	pH	4/19/2022 11:38	7.81	SU
GN-AP-MW-38	Temperature	4/19/2022 11:38	17.36	C
GN-AP-MW-38	Turbidity	4/19/2022 11:38	5.66	NTU
GN-AP-MW-38	Conductivity	4/19/2022 11:43	204.73	uS/cm
GN-AP-MW-38	DO	4/19/2022 11:43	2.96	mg/L
GN-AP-MW-38	Depth to Water Detail	4/19/2022 11:43	6.21	ft
GN-AP-MW-38	Oxidation Reduction Potention	4/19/2022 11:43	60.88	mv
GN-AP-MW-38	pH	4/19/2022 11:43	7.88	SU
GN-AP-MW-38	Temperature	4/19/2022 11:43	17.37	C
GN-AP-MW-38	Turbidity	4/19/2022 11:43	6.19	NTU
GN-AP-MW-38	Conductivity	4/19/2022 11:48	204.8	uS/cm
GN-AP-MW-38	DO	4/19/2022 11:48	4.77	mg/L
GN-AP-MW-38	Depth to Water Detail	4/19/2022 11:48	6.21	ft
GN-AP-MW-38	Oxidation Reduction Potention	4/19/2022 11:48	57.49	mv
GN-AP-MW-38	pH	4/19/2022 11:48	7.91	SU
GN-AP-MW-38	Temperature	4/19/2022 11:48	17.42	C
GN-AP-MW-38	Turbidity	4/19/2022 11:48	5.88	NTU
GN-AP-MW-38	Conductivity	4/19/2022 11:53	204.61	uS/cm
GN-AP-MW-38	DO	4/19/2022 11:53	4.84	mg/L
GN-AP-MW-38	Depth to Water Detail	4/19/2022 11:53	6.21	ft
GN-AP-MW-38	Oxidation Reduction Potention	4/19/2022 11:53	54.99	mv
GN-AP-MW-38	pH	4/19/2022 11:53	7.91	SU
GN-AP-MW-38	Temperature	4/19/2022 11:53	17.5	C
GN-AP-MW-38	Turbidity	4/19/2022 11:53	4.96	NTU
GN-AP-MW-38	Conductivity	4/19/2022 11:58	204.76	uS/cm
GN-AP-MW-38	DO	4/19/2022 11:58	4.89	mg/L
GN-AP-MW-38	Depth to Water Detail	4/19/2022 11:58	6.21	ft
GN-AP-MW-38	Oxidation Reduction Potention	4/19/2022 11:58	54.77	mv
GN-AP-MW-38	pH	4/19/2022 11:58	7.91	SU
GN-AP-MW-38	Sulfide	4/19/2022 11:58	0	mg/L
GN-AP-MW-38	Temperature	4/19/2022 11:58	17.51	C
GN-AP-MW-38	Turbidity	4/19/2022 11:58	4.81	NTU
GN-AP-MW-39	Conductivity	4/19/2022 15:11	231.39	uS/cm

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-39	DO	4/19/2022 15:11	0.45	mg/L
GN-AP-MW-39	Depth to Water Detail	4/19/2022 15:11	17.68	ft
GN-AP-MW-39	Oxidation Reduction Potention	4/19/2022 15:11	94.52	mv
GN-AP-MW-39	pH	4/19/2022 15:11	6.7	SU
GN-AP-MW-39	Temperature	4/19/2022 15:11	18.27	C
GN-AP-MW-39	Turbidity	4/19/2022 15:11	1.05	NTU
GN-AP-MW-39	Conductivity	4/19/2022 15:16	230.02	uS/cm
GN-AP-MW-39	DO	4/19/2022 15:16	0.4	mg/L
GN-AP-MW-39	Depth to Water Detail	4/19/2022 15:16	17.68	ft
GN-AP-MW-39	Oxidation Reduction Potention	4/19/2022 15:16	64.14	mv
GN-AP-MW-39	pH	4/19/2022 15:16	6.74	SU
GN-AP-MW-39	Temperature	4/19/2022 15:16	18.29	C
GN-AP-MW-39	Turbidity	4/19/2022 15:16	1.09	NTU
GN-AP-MW-39	Conductivity	4/19/2022 15:21	226.85	uS/cm
GN-AP-MW-39	DO	4/19/2022 15:21	0.39	mg/L
GN-AP-MW-39	Depth to Water Detail	4/19/2022 15:21	17.68	ft
GN-AP-MW-39	Oxidation Reduction Potention	4/19/2022 15:21	34.77	mv
GN-AP-MW-39	pH	4/19/2022 15:21	6.79	SU
GN-AP-MW-39	Temperature	4/19/2022 15:21	18.36	C
GN-AP-MW-39	Turbidity	4/19/2022 15:21	0.96	NTU
GN-AP-MW-39	Conductivity	4/19/2022 15:26	223.66	uS/cm
GN-AP-MW-39	DO	4/19/2022 15:26	0.39	mg/L
GN-AP-MW-39	Depth to Water Detail	4/19/2022 15:26	17.68	ft
GN-AP-MW-39	Oxidation Reduction Potention	4/19/2022 15:26	9.63	mv
GN-AP-MW-39	pH	4/19/2022 15:26	6.85	SU
GN-AP-MW-39	Sulfide	4/19/2022 15:26	0	mg/L
GN-AP-MW-39	Temperature	4/19/2022 15:26	18.45	C
GN-AP-MW-39	Turbidity	4/19/2022 15:26	1.02	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-40	Conductivity	4/19/2022 14:05	182.62	uS/cm
GN-AP-MW-40	DO	4/19/2022 14:05	7.3	mg/L
GN-AP-MW-40	Depth to Water Detail	4/19/2022 14:05	14.08	ft
GN-AP-MW-40	Oxidation Reduction Potention	4/19/2022 14:05	92.23	mv
GN-AP-MW-40	pH	4/19/2022 14:05	7.27	SU
GN-AP-MW-40	Temperature	4/19/2022 14:05	18.26	C
GN-AP-MW-40	Turbidity	4/19/2022 14:05	11.31	NTU
GN-AP-MW-40	Conductivity	4/19/2022 14:10	182.92	uS/cm
GN-AP-MW-40	DO	4/19/2022 14:10	7.31	mg/L
GN-AP-MW-40	Depth to Water Detail	4/19/2022 14:10	14.08	ft
GN-AP-MW-40	Oxidation Reduction Potention	4/19/2022 14:10	88.69	mv
GN-AP-MW-40	pH	4/19/2022 14:10	7.37	SU
GN-AP-MW-40	Temperature	4/19/2022 14:10	18.33	C
GN-AP-MW-40	Turbidity	4/19/2022 14:10	8.34	NTU
GN-AP-MW-40	Conductivity	4/19/2022 14:15	183.2	uS/cm
GN-AP-MW-40	DO	4/19/2022 14:15	7.32	mg/L
GN-AP-MW-40	Depth to Water Detail	4/19/2022 14:15	14.08	ft
GN-AP-MW-40	Oxidation Reduction Potention	4/19/2022 14:15	79.54	mv
GN-AP-MW-40	pH	4/19/2022 14:15	7.5	SU
GN-AP-MW-40	Temperature	4/19/2022 14:15	18.32	C
GN-AP-MW-40	Turbidity	4/19/2022 14:15	5.18	NTU
GN-AP-MW-40	Conductivity	4/19/2022 14:20	183.08	uS/cm
GN-AP-MW-40	DO	4/19/2022 14:20	7.28	mg/L
GN-AP-MW-40	Depth to Water Detail	4/19/2022 14:20	14.08	ft
GN-AP-MW-40	Oxidation Reduction Potention	4/19/2022 14:20	72.55	mv
GN-AP-MW-40	pH	4/19/2022 14:20	7.6	SU
GN-AP-MW-40	Temperature	4/19/2022 14:20	18.3	C
GN-AP-MW-40	Turbidity	4/19/2022 14:20	4.75	NTU
GN-AP-MW-40	Conductivity	4/19/2022 14:25	183.49	uS/cm
GN-AP-MW-40	DO	4/19/2022 14:25	7.22	mg/L
GN-AP-MW-40	Depth to Water Detail	4/19/2022 14:25	14.08	ft
GN-AP-MW-40	Oxidation Reduction Potention	4/19/2022 14:25	70.73	mv
GN-AP-MW-40	pH	4/19/2022 14:25	7.64	SU
GN-AP-MW-40	Temperature	4/19/2022 14:25	18.32	C
GN-AP-MW-40	Turbidity	4/19/2022 14:25	5.03	NTU
GN-AP-MW-40	Conductivity	4/19/2022 14:30	183.46	uS/cm
GN-AP-MW-40	DO	4/19/2022 14:30	7.25	mg/L
GN-AP-MW-40	Depth to Water Detail	4/19/2022 14:30	14.08	ft
GN-AP-MW-40	Oxidation Reduction Potention	4/19/2022 14:30	67.93	mv
GN-AP-MW-40	pH	4/19/2022 14:30	7.68	SU
GN-AP-MW-40	Sulfide	4/19/2022 14:30	0	mg/L
GN-AP-MW-40	Temperature	4/19/2022 14:30	18.27	C
GN-AP-MW-40	Turbidity	4/19/2022 14:30	3.86	NTU
GN-AP-MW-41	Conductivity	4/19/2022 13:11	243.05	uS/cm

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-41	DO	4/19/2022 13:11	4.29	mg/L
GN-AP-MW-41	Depth to Water Detail	4/19/2022 13:11	7.58	ft
GN-AP-MW-41	Oxidation Reduction Potention	4/19/2022 13:11	100.93	mv
GN-AP-MW-41	pH	4/19/2022 13:11	6.75	SU
GN-AP-MW-41	Temperature	4/19/2022 13:11	17.23	C
GN-AP-MW-41	Turbidity	4/19/2022 13:11	7.69	NTU
GN-AP-MW-41	Conductivity	4/19/2022 13:16	242.68	uS/cm
GN-AP-MW-41	DO	4/19/2022 13:16	4.3	mg/L
GN-AP-MW-41	Depth to Water Detail	4/19/2022 13:16	7.58	ft
GN-AP-MW-41	Oxidation Reduction Potention	4/19/2022 13:16	101.05	mv
GN-AP-MW-41	pH	4/19/2022 13:16	6.75	SU
GN-AP-MW-41	Temperature	4/19/2022 13:16	17.17	C
GN-AP-MW-41	Turbidity	4/19/2022 13:16	5.72	NTU
GN-AP-MW-41	Conductivity	4/19/2022 13:21	242.64	uS/cm
GN-AP-MW-41	DO	4/19/2022 13:21	4.32	mg/L
GN-AP-MW-41	Depth to Water Detail	4/19/2022 13:21	7.58	ft
GN-AP-MW-41	Oxidation Reduction Potention	4/19/2022 13:21	100.32	mv
GN-AP-MW-41	pH	4/19/2022 13:21	6.78	SU
GN-AP-MW-41	Temperature	4/19/2022 13:21	17.17	C
GN-AP-MW-41	Turbidity	4/19/2022 13:21	4.3	NTU
GN-AP-MW-41	Conductivity	4/19/2022 13:26	242.68	uS/cm
GN-AP-MW-41	DO	4/19/2022 13:26	4.34	mg/L
GN-AP-MW-41	Depth to Water Detail	4/19/2022 13:26	7.58	ft
GN-AP-MW-41	Oxidation Reduction Potention	4/19/2022 13:26	99.03	mv
GN-AP-MW-41	pH	4/19/2022 13:26	6.8	SU
GN-AP-MW-41	Sulfide	4/19/2022 13:26	0	mg/L
GN-AP-MW-41	Temperature	4/19/2022 13:26	17.22	C
GN-AP-MW-41	Turbidity	4/19/2022 13:26	4.09	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	Conductivity	4/19/2022 9:34	44.86	uS/cm
GN-AP-MW-42	DO	4/19/2022 9:34	7.28	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 9:34	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 9:34	35.34	mv
GN-AP-MW-42	pH	4/19/2022 9:34	6	SU
GN-AP-MW-42	Temperature	4/19/2022 9:34	17.57	C
GN-AP-MW-42	Turbidity	4/19/2022 9:34	9.26	NTU
GN-AP-MW-42	Conductivity	4/19/2022 9:39	43.85	uS/cm
GN-AP-MW-42	DO	4/19/2022 9:39	7.27	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 9:39	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 9:39	67.19	mv
GN-AP-MW-42	pH	4/19/2022 9:39	5.73	SU
GN-AP-MW-42	Temperature	4/19/2022 9:39	17.62	C
GN-AP-MW-42	Turbidity	4/19/2022 9:39	8.05	NTU
GN-AP-MW-42	Conductivity	4/19/2022 9:44	47.11	uS/cm
GN-AP-MW-42	DO	4/19/2022 9:44	7.25	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 9:44	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 9:44	82.49	mv
GN-AP-MW-42	pH	4/19/2022 9:44	5.68	SU
GN-AP-MW-42	Temperature	4/19/2022 9:44	17.64	C
GN-AP-MW-42	Turbidity	4/19/2022 9:44	5.21	NTU
GN-AP-MW-42	Conductivity	4/19/2022 9:49	56.07	uS/cm
GN-AP-MW-42	DO	4/19/2022 9:49	7.21	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 9:49	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 9:49	88.93	mv
GN-AP-MW-42	pH	4/19/2022 9:49	5.77	SU
GN-AP-MW-42	Temperature	4/19/2022 9:49	17.71	C
GN-AP-MW-42	Turbidity	4/19/2022 9:49	4.79	NTU
GN-AP-MW-42	Conductivity	4/19/2022 9:54	66.34	uS/cm
GN-AP-MW-42	DO	4/19/2022 9:54	7.16	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 9:54	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 9:54	89.86	mv
GN-AP-MW-42	pH	4/19/2022 9:54	5.88	SU
GN-AP-MW-42	Temperature	4/19/2022 9:54	17.66	C
GN-AP-MW-42	Turbidity	4/19/2022 9:54	4.33	NTU
GN-AP-MW-42	Conductivity	4/19/2022 9:59	74.54	uS/cm
GN-AP-MW-42	DO	4/19/2022 9:59	7.14	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 9:59	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 9:59	91.4	mv
GN-AP-MW-42	pH	4/19/2022 9:59	5.96	SU
GN-AP-MW-42	Temperature	4/19/2022 9:59	17.67	C
GN-AP-MW-42	Turbidity	4/19/2022 9:59	3.95	NTU
GN-AP-MW-42	Conductivity	4/19/2022 10:04	81.46	uS/cm
GN-AP-MW-42	DO	4/19/2022 10:04	7.13	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	Depth to Water Detail	4/19/2022 10:04	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 10:04	91.18	mv
GN-AP-MW-42	pH	4/19/2022 10:04	6.02	SU
GN-AP-MW-42	Temperature	4/19/2022 10:04	17.65	C
GN-AP-MW-42	Turbidity	4/19/2022 10:04	3.85	NTU
GN-AP-MW-42	Conductivity	4/19/2022 10:09	86.48	uS/cm
GN-AP-MW-42	DO	4/19/2022 10:09	7.09	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 10:09	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 10:09	91.98	mv
GN-AP-MW-42	pH	4/19/2022 10:09	6.08	SU
GN-AP-MW-42	Temperature	4/19/2022 10:09	17.67	C
GN-AP-MW-42	Turbidity	4/19/2022 10:09	3.76	NTU
GN-AP-MW-42	Conductivity	4/19/2022 10:14	91.09	uS/cm
GN-AP-MW-42	DO	4/19/2022 10:14	7.04	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 10:14	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 10:14	91.74	mv
GN-AP-MW-42	pH	4/19/2022 10:14	6.12	SU
GN-AP-MW-42	Temperature	4/19/2022 10:14	17.75	C
GN-AP-MW-42	Turbidity	4/19/2022 10:14	3.58	NTU
GN-AP-MW-42	Conductivity	4/19/2022 10:19	94.61	uS/cm
GN-AP-MW-42	DO	4/19/2022 10:19	6.99	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 10:19	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 10:19	91.81	mv
GN-AP-MW-42	pH	4/19/2022 10:19	6.15	SU
GN-AP-MW-42	Temperature	4/19/2022 10:19	17.75	C
GN-AP-MW-42	Turbidity	4/19/2022 10:19	3.25	NTU
GN-AP-MW-42	Conductivity	4/19/2022 10:24	97.48	uS/cm
GN-AP-MW-42	DO	4/19/2022 10:24	6.93	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 10:24	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 10:24	90.76	mv
GN-AP-MW-42	pH	4/19/2022 10:24	6.24	SU
GN-AP-MW-42	Temperature	4/19/2022 10:24	17.77	C
GN-AP-MW-42	Turbidity	4/19/2022 10:24	3.56	NTU
GN-AP-MW-42	Conductivity	4/19/2022 10:29	100.49	uS/cm
GN-AP-MW-42	DO	4/19/2022 10:29	6.96	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 10:29	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 10:29	89.93	mv
GN-AP-MW-42	pH	4/19/2022 10:29	6.27	SU
GN-AP-MW-42	Temperature	4/19/2022 10:29	17.72	C
GN-AP-MW-42	Turbidity	4/19/2022 10:29	2.98	NTU
GN-AP-MW-42	Conductivity	4/19/2022 10:34	102.76	uS/cm
GN-AP-MW-42	DO	4/19/2022 10:34	6.93	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 10:34	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 10:34	90.84	mv

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	pH	4/19/2022 10:34	6.3	SU
GN-AP-MW-42	Temperature	4/19/2022 10:34	17.72	C
GN-AP-MW-42	Turbidity	4/19/2022 10:34	3.01	NTU
GN-AP-MW-42	Conductivity	4/19/2022 10:39	104.64	uS/cm
GN-AP-MW-42	DO	4/19/2022 10:39	6.92	mg/L
GN-AP-MW-42	Depth to Water Detail	4/19/2022 10:39	33.16	ft
GN-AP-MW-42	Oxidation Reduction Potention	4/19/2022 10:39	90.11	mv
GN-AP-MW-42	pH	4/19/2022 10:39	6.31	SU
GN-AP-MW-42	Sulfide	4/19/2022 10:39	0	mg/L
GN-AP-MW-42	Temperature	4/19/2022 10:39	17.79	C
GN-AP-MW-42	Turbidity	4/19/2022 10:39	2.87	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17	Sulfide	4/20/2022 13:04	0	mg/L
GN-AP-MW-17	Conductivity	4/20/2022 13:09	1115.07	uS/cm
GN-AP-MW-17	DO	4/20/2022 13:09	0.1	mg/L
GN-AP-MW-17	Depth to Water Detail	4/20/2022 13:09	8.44	ft
GN-AP-MW-17	Oxidation Reduction Potention	4/20/2022 13:09	-143.18	mv
GN-AP-MW-17	pH	4/20/2022 13:09	9.28	SU
GN-AP-MW-17	Temperature	4/20/2022 13:09	35.2	C
GN-AP-MW-17	Turbidity	4/20/2022 13:09	1.49	NTU
GN-AP-MW-17	Conductivity	4/20/2022 13:14	1071.4	uS/cm
GN-AP-MW-17	DO	4/20/2022 13:14	0.12	mg/L
GN-AP-MW-17	Depth to Water Detail	4/20/2022 13:14	8.82	ft
GN-AP-MW-17	Oxidation Reduction Potention	4/20/2022 13:14	-141.74	mv
GN-AP-MW-17	pH	4/20/2022 13:14	9.18	SU
GN-AP-MW-17	Temperature	4/20/2022 13:14	35.12	C
GN-AP-MW-17	Turbidity	4/20/2022 13:14	1.64	NTU
GN-AP-MW-17	Conductivity	4/20/2022 13:19	1083.59	uS/cm
GN-AP-MW-17	DO	4/20/2022 13:19	0.1	mg/L
GN-AP-MW-17	Depth to Water Detail	4/20/2022 13:19	9.11	ft
GN-AP-MW-17	Oxidation Reduction Potention	4/20/2022 13:19	-147.09	mv
GN-AP-MW-17	pH	4/20/2022 13:19	9.23	SU
GN-AP-MW-17	Temperature	4/20/2022 13:19	35.16	C
GN-AP-MW-17	Turbidity	4/20/2022 13:19	1.52	NTU
GN-AP-MW-17	Conductivity	4/20/2022 13:24	1093.61	uS/cm
GN-AP-MW-17	DO	4/20/2022 13:24	0.1	mg/L
GN-AP-MW-17	Depth to Water Detail	4/20/2022 13:24	9.34	ft
GN-AP-MW-17	Oxidation Reduction Potention	4/20/2022 13:24	-150.49	mv
GN-AP-MW-17	pH	4/20/2022 13:24	9.25	SU
GN-AP-MW-17	Temperature	4/20/2022 13:24	35.18	C
GN-AP-MW-17	Turbidity	4/20/2022 13:24	1.59	NTU
GN-AP-MW-17	Conductivity	4/20/2022 13:29	1097.75	uS/cm
GN-AP-MW-17	DO	4/20/2022 13:29	0.14	mg/L
GN-AP-MW-17	Depth to Water Detail	4/20/2022 13:29	9.43	ft
GN-AP-MW-17	Oxidation Reduction Potention	4/20/2022 13:29	-152.13	mv
GN-AP-MW-17	pH	4/20/2022 13:29	9.26	SU
GN-AP-MW-17	Temperature	4/20/2022 13:29	35.28	C
GN-AP-MW-17	Turbidity	4/20/2022 13:29	1.55	NTU
GN-AP-MW-17	Conductivity	4/20/2022 13:34	1101.12	uS/cm
GN-AP-MW-17	DO	4/20/2022 13:34	0.16	mg/L
GN-AP-MW-17	Depth to Water Detail	4/20/2022 13:34	9.5	ft
GN-AP-MW-17	Oxidation Reduction Potention	4/20/2022 13:34	-152.25	mv
GN-AP-MW-17	pH	4/20/2022 13:34	9.25	SU
GN-AP-MW-17	Sulfide	4/20/2022 13:34	0	mg/L
GN-AP-MW-17	Temperature	4/20/2022 13:34	35.34	C
GN-AP-MW-17	Turbidity	4/20/2022 13:34	2.26	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17SV	Conductivity	4/20/2022 14:18	826.49	uS/cm
GN-AP-MW-17SV	DO	4/20/2022 14:18	0.03	mg/L
GN-AP-MW-17SV	Depth to Water Detail	4/20/2022 14:18	10.42	ft
GN-AP-MW-17SV	Oxidation Reduction Potention	4/20/2022 14:18	-128.8	mv
GN-AP-MW-17SV	pH	4/20/2022 14:18	8.3	SU
GN-AP-MW-17SV	Temperature	4/20/2022 14:18	35.11	C
GN-AP-MW-17SV	Turbidity	4/20/2022 14:18	1.85	NTU
GN-AP-MW-17SV	Conductivity	4/20/2022 14:23	789.65	uS/cm
GN-AP-MW-17SV	DO	4/20/2022 14:23	0.02	mg/L
GN-AP-MW-17SV	Depth to Water Detail	4/20/2022 14:23	10.42	ft
GN-AP-MW-17SV	Oxidation Reduction Potention	4/20/2022 14:23	-145.65	mv
GN-AP-MW-17SV	pH	4/20/2022 14:23	7.81	SU
GN-AP-MW-17SV	Temperature	4/20/2022 14:23	35.06	C
GN-AP-MW-17SV	Turbidity	4/20/2022 14:23	1.93	NTU
GN-AP-MW-17SV	Conductivity	4/20/2022 14:28	780.69	uS/cm
GN-AP-MW-17SV	DO	4/20/2022 14:28	0.01	mg/L
GN-AP-MW-17SV	Depth to Water Detail	4/20/2022 14:28	10.42	ft
GN-AP-MW-17SV	Oxidation Reduction Potention	4/20/2022 14:28	-143.85	mv
GN-AP-MW-17SV	pH	4/20/2022 14:28	7.73	SU
GN-AP-MW-17SV	Temperature	4/20/2022 14:28	35.07	C
GN-AP-MW-17SV	Turbidity	4/20/2022 14:28	1.46	NTU
GN-AP-MW-17SV	Conductivity	4/20/2022 14:33	776.27	uS/cm
GN-AP-MW-17SV	DO	4/20/2022 14:33	0.01	mg/L
GN-AP-MW-17SV	Depth to Water Detail	4/20/2022 14:33	10.42	ft
GN-AP-MW-17SV	Oxidation Reduction Potention	4/20/2022 14:33	-141.58	mv
GN-AP-MW-17SV	pH	4/20/2022 14:33	7.69	SU
GN-AP-MW-17SV	Temperature	4/20/2022 14:33	35.09	C
GN-AP-MW-17SV	Turbidity	4/20/2022 14:33	1.39	NTU
GN-AP-MW-17SV	Conductivity	4/20/2022 14:38	771.33	uS/cm
GN-AP-MW-17SV	DO	4/20/2022 14:38	0.01	mg/L
GN-AP-MW-17SV	Depth to Water Detail	4/20/2022 14:38	10.42	ft
GN-AP-MW-17SV	Oxidation Reduction Potention	4/20/2022 14:38	-136.45	mv
GN-AP-MW-17SV	pH	4/20/2022 14:38	7.63	SU
GN-AP-MW-17SV	Sulfide	4/20/2022 14:38	0	mg/L
GN-AP-MW-17SV	Temperature	4/20/2022 14:38	35.13	C
GN-AP-MW-17SV	Turbidity	4/20/2022 14:38	1.59	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	Conductivity	4/19/2022 15:17	367.95	uS/cm
GN-AP-MW-19	DO	4/19/2022 15:17	3.6	mg/L
GN-AP-MW-19	Depth to Water Detail	4/19/2022 15:17	48.52	ft
GN-AP-MW-19	Oxidation Reduction Potention	4/19/2022 15:17	-110.46	mv
GN-AP-MW-19	pH	4/19/2022 15:17	7.83	SU
GN-AP-MW-19	Temperature	4/19/2022 15:17	34.27	C
GN-AP-MW-19	Turbidity	4/19/2022 15:17	7.86	NTU
GN-AP-MW-19	Conductivity	4/19/2022 15:22	373.14	uS/cm
GN-AP-MW-19	DO	4/19/2022 15:22	1.86	mg/L
GN-AP-MW-19	Depth to Water Detail	4/19/2022 15:22	48.52	ft
GN-AP-MW-19	Oxidation Reduction Potention	4/19/2022 15:22	-132.2	mv
GN-AP-MW-19	pH	4/19/2022 15:22	7.7	SU
GN-AP-MW-19	Temperature	4/19/2022 15:22	33.85	C
GN-AP-MW-19	Turbidity	4/19/2022 15:22	1.26	NTU
GN-AP-MW-19	Conductivity	4/19/2022 15:27	373.14	uS/cm
GN-AP-MW-19	DO	4/19/2022 15:27	1.42	mg/L
GN-AP-MW-19	Depth to Water Detail	4/19/2022 15:27	48.52	ft
GN-AP-MW-19	Oxidation Reduction Potention	4/19/2022 15:27	-138.38	mv
GN-AP-MW-19	pH	4/19/2022 15:27	7.67	SU
GN-AP-MW-19	Temperature	4/19/2022 15:27	33.84	C
GN-AP-MW-19	Turbidity	4/19/2022 15:27	1.18	NTU
GN-AP-MW-19	Conductivity	4/19/2022 15:32	372.16	uS/cm
GN-AP-MW-19	DO	4/19/2022 15:32	1.24	mg/L
GN-AP-MW-19	Depth to Water Detail	4/19/2022 15:32	48.52	ft
GN-AP-MW-19	Oxidation Reduction Potention	4/19/2022 15:32	-140.61	mv
GN-AP-MW-19	pH	4/19/2022 15:32	7.66	SU
GN-AP-MW-19	Temperature	4/19/2022 15:32	33.71	C
GN-AP-MW-19	Turbidity	4/19/2022 15:32	1.16	NTU
GN-AP-MW-19	Conductivity	4/19/2022 15:37	371.16	uS/cm
GN-AP-MW-19	DO	4/19/2022 15:37	1.19	mg/L
GN-AP-MW-19	Depth to Water Detail	4/19/2022 15:37	48.52	ft
GN-AP-MW-19	Oxidation Reduction Potention	4/19/2022 15:37	-140.04	mv
GN-AP-MW-19	pH	4/19/2022 15:37	7.63	SU
GN-AP-MW-19	Temperature	4/19/2022 15:37	33.63	C
GN-AP-MW-19	Turbidity	4/19/2022 15:37	1.61	NTU
GN-AP-MW-19	Conductivity	4/19/2022 15:42	370.93	uS/cm
GN-AP-MW-19	DO	4/19/2022 15:42	1.12	mg/L
GN-AP-MW-19	Depth to Water Detail	4/19/2022 15:42	48.52	ft
GN-AP-MW-19	Oxidation Reduction Potention	4/19/2022 15:42	-141.28	mv
GN-AP-MW-19	pH	4/19/2022 15:42	7.63	SU
GN-AP-MW-19	Sulfide	4/19/2022 15:42	0	mg/L
GN-AP-MW-19	Temperature	4/19/2022 15:42	33.57	C
GN-AP-MW-19	Turbidity	4/19/2022 15:42	1.08	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20	Conductivity	4/20/2022 11:44	864.1	uS/cm
GN-AP-MW-20	DO	4/20/2022 11:44	0.56	mg/L
GN-AP-MW-20	Depth to Water Detail	4/20/2022 11:44	10.19	ft
GN-AP-MW-20	Oxidation Reduction Potention	4/20/2022 11:44	-111.1	mv
GN-AP-MW-20	pH	4/20/2022 11:44	7.82	SU
GN-AP-MW-20	Temperature	4/20/2022 11:44	33.08	C
GN-AP-MW-20	Turbidity	4/20/2022 11:44	3.83	NTU
GN-AP-MW-20	Conductivity	4/20/2022 11:49	862.54	uS/cm
GN-AP-MW-20	DO	4/20/2022 11:49	0.39	mg/L
GN-AP-MW-20	Depth to Water Detail	4/20/2022 11:49	10.26	ft
GN-AP-MW-20	Oxidation Reduction Potention	4/20/2022 11:49	-109.52	mv
GN-AP-MW-20	pH	4/20/2022 11:49	7.84	SU
GN-AP-MW-20	Temperature	4/20/2022 11:49	33.18	C
GN-AP-MW-20	Turbidity	4/20/2022 11:49	3.08	NTU
GN-AP-MW-20	Conductivity	4/20/2022 11:54	863.18	uS/cm
GN-AP-MW-20	DO	4/20/2022 11:54	0.3	mg/L
GN-AP-MW-20	Depth to Water Detail	4/20/2022 11:54	10.33	ft
GN-AP-MW-20	Oxidation Reduction Potention	4/20/2022 11:54	-107.8	mv
GN-AP-MW-20	pH	4/20/2022 11:54	7.85	SU
GN-AP-MW-20	Temperature	4/20/2022 11:54	33.2	C
GN-AP-MW-20	Turbidity	4/20/2022 11:54	1.82	NTU
GN-AP-MW-20	Conductivity	4/20/2022 11:59	861.37	uS/cm
GN-AP-MW-20	DO	4/20/2022 11:59	0.33	mg/L
GN-AP-MW-20	Depth to Water Detail	4/20/2022 11:59	10.33	ft
GN-AP-MW-20	Oxidation Reduction Potention	4/20/2022 11:59	-104.81	mv
GN-AP-MW-20	pH	4/20/2022 11:59	7.83	SU
GN-AP-MW-20	Sulfide	4/20/2022 11:59	0	mg/L
GN-AP-MW-20	Temperature	4/20/2022 11:59	33.37	C
GN-AP-MW-20	Turbidity	4/20/2022 11:59	1.47	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20SV	Conductivity	4/20/2022 9:30	887.42	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 9:30	0.07	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 9:30	11.82	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 9:30	-120.6	mv
GN-AP-MW-20SV	pH	4/20/2022 9:30	6.98	SU
GN-AP-MW-20SV	Temperature	4/20/2022 9:30	32.29	C
GN-AP-MW-20SV	Turbidity	4/20/2022 9:30	90.1	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 9:35	875.17	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 9:35	0.05	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 9:35	11.98	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 9:35	-127.24	mv
GN-AP-MW-20SV	pH	4/20/2022 9:35	6.99	SU
GN-AP-MW-20SV	Temperature	4/20/2022 9:35	32.38	C
GN-AP-MW-20SV	Turbidity	4/20/2022 9:35	59.8	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 9:40	865.58	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 9:40	0.04	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 9:40	12.01	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 9:40	-133.93	mv
GN-AP-MW-20SV	pH	4/20/2022 9:40	7.02	SU
GN-AP-MW-20SV	Temperature	4/20/2022 9:40	32.43	C
GN-AP-MW-20SV	Turbidity	4/20/2022 9:40	40.7	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 9:45	856.76	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 9:45	0.03	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 9:45	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 9:45	-138.31	mv
GN-AP-MW-20SV	pH	4/20/2022 9:45	7.05	SU
GN-AP-MW-20SV	Temperature	4/20/2022 9:45	32.53	C
GN-AP-MW-20SV	Turbidity	4/20/2022 9:45	32.6	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 9:50	848.72	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 9:50	0.02	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 9:50	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 9:50	-141.14	mv
GN-AP-MW-20SV	pH	4/20/2022 9:50	7.07	SU
GN-AP-MW-20SV	Temperature	4/20/2022 9:50	32.58	C
GN-AP-MW-20SV	Turbidity	4/20/2022 9:50	26.6	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 9:55	842.76	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 9:55	0.02	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 9:55	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 9:55	-142.75	mv
GN-AP-MW-20SV	pH	4/20/2022 9:55	7.07	SU
GN-AP-MW-20SV	Temperature	4/20/2022 9:55	32.6	C
GN-AP-MW-20SV	Turbidity	4/20/2022 9:55	23.9	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:00	836.1	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:00	0.02	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:00	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:00	-142.49	mv
GN-AP-MW-20SV	pH	4/20/2022 10:00	7.06	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:00	32.67	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:00	22.7	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:05	831.7	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:05	0.02	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:05	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:05	-143.86	mv
GN-AP-MW-20SV	pH	4/20/2022 10:05	7.08	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:05	32.75	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:05	19.8	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:10	827.73	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:10	0.01	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:10	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:10	-145.04	mv
GN-AP-MW-20SV	pH	4/20/2022 10:10	7.09	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:10	32.82	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:10	16.2	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:15	823.36	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:15	0.01	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:15	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:15	-145.14	mv
GN-AP-MW-20SV	pH	4/20/2022 10:15	7.09	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:15	32.81	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:15	15.8	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:20	818.47	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:20	0.01	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:20	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:20	-143.79	mv
GN-AP-MW-20SV	pH	4/20/2022 10:20	7.07	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:20	32.83	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:20	14.1	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:25	815.65	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:25	0.02	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:25	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:25	-144.89	mv
GN-AP-MW-20SV	pH	4/20/2022 10:25	7.08	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:25	32.8	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:25	11.9	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:30	810.98	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:30	0.01	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:30	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:30	-145.22	mv

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20SV	pH	4/20/2022 10:30	7.09	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:30	32.86	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:30	11.4	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:35	808.32	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:35	0.01	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:35	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:35	-145.48	mv
GN-AP-MW-20SV	pH	4/20/2022 10:35	7.1	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:35	32.93	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:35	12.43	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:40	804.45	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:40	0.01	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:40	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:40	-145.14	mv
GN-AP-MW-20SV	pH	4/20/2022 10:40	7.09	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:40	32.98	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:40	11.3	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:45	800.93	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:45	0.01	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:45	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:45	-144.11	mv
GN-AP-MW-20SV	pH	4/20/2022 10:45	7.08	SU
GN-AP-MW-20SV	Temperature	4/20/2022 10:45	32.99	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:45	11.33	NTU
GN-AP-MW-20SV	Conductivity	4/20/2022 10:50	797.96	uS/cm
GN-AP-MW-20SV	DO	4/20/2022 10:50	0.01	mg/L
GN-AP-MW-20SV	Depth to Water Detail	4/20/2022 10:50	12.11	ft
GN-AP-MW-20SV	Oxidation Reduction Potention	4/20/2022 10:50	-144.81	mv
GN-AP-MW-20SV	pH	4/20/2022 10:50	7.1	SU
GN-AP-MW-20SV	Sulfide	4/20/2022 10:50	0	mg/L
GN-AP-MW-20SV	Temperature	4/20/2022 10:50	33.04	C
GN-AP-MW-20SV	Turbidity	4/20/2022 10:50	9.6	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20V	Conductivity	4/19/2022 10:01	1066.42	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:01	0.24	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:01	10.54	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:01	-159.58	mv
GN-AP-MW-20V	pH	4/19/2022 10:01	8.06	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:01	26.91	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:01	31.5	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:06	1059.79	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:06	0.21	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:06	11.73	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:06	-175.24	mv
GN-AP-MW-20V	pH	4/19/2022 10:06	8.09	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:06	27.21	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:06	11.6	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:11	1054	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:11	0.2	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:11	11.94	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:11	-182.63	mv
GN-AP-MW-20V	pH	4/19/2022 10:11	8.1	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:11	27.32	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:11	9.44	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:16	1044.15	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:16	0.19	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:16	12.19	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:16	-188.23	mv
GN-AP-MW-20V	pH	4/19/2022 10:16	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:16	27.41	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:16	7.67	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:21	1040.33	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:21	0.2	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:21	12.52	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:21	-189.77	mv
GN-AP-MW-20V	pH	4/19/2022 10:21	8.1	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:21	27.62	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:21	5.53	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:26	1033.86	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:26	0.25	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:26	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:26	-190.71	mv
GN-AP-MW-20V	pH	4/19/2022 10:26	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:26	27.41	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:26	5.52	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:31	1029.79	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:31	0.28	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:31	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:31	-190.42	mv
GN-AP-MW-20V	pH	4/19/2022 10:31	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:31	27.57	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:31	5.42	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:36	1025.2	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:36	0.29	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:36	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:36	-190.15	mv
GN-AP-MW-20V	pH	4/19/2022 10:36	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:36	27.66	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:36	6.7	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:41	1022.52	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:41	0.3	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:41	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:41	-189.01	mv
GN-AP-MW-20V	pH	4/19/2022 10:41	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:41	27.87	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:41	12.94	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:46	1016.58	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:46	0.31	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:46	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:46	-188.29	mv
GN-AP-MW-20V	pH	4/19/2022 10:46	8.1	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:46	27.92	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:46	11.7	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:51	1015.52	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:51	0.32	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:51	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:51	-188.18	mv
GN-AP-MW-20V	pH	4/19/2022 10:51	8.1	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:51	28.06	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:51	17.2	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 10:56	1013.5	uS/cm
GN-AP-MW-20V	DO	4/19/2022 10:56	0.33	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 10:56	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 10:56	-188.1	mv
GN-AP-MW-20V	pH	4/19/2022 10:56	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 10:56	28.13	C
GN-AP-MW-20V	Turbidity	4/19/2022 10:56	20.8	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:01	1011.08	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:01	0.32	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:01	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:01	-187.85	mv

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20V	pH	4/19/2022 11:01	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:01	28.33	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:01	20.2	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:06	1008	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:06	0.32	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:06	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:06	-187.12	mv
GN-AP-MW-20V	pH	4/19/2022 11:06	8.09	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:06	28.41	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:06	20.2	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:11	1004.23	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:11	0.33	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:11	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:11	-187.65	mv
GN-AP-MW-20V	pH	4/19/2022 11:11	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:11	28.28	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:11	19.4	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:16	1002.5	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:16	0.33	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:16	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:16	-187.88	mv
GN-AP-MW-20V	pH	4/19/2022 11:16	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:16	28.41	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:16	22.7	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:21	998.65	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:21	0.33	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:21	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:21	-187.99	mv
GN-AP-MW-20V	pH	4/19/2022 11:21	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:21	28.39	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:21	23.5	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:26	994.06	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:26	0.33	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:26	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:26	-187.05	mv
GN-AP-MW-20V	pH	4/19/2022 11:26	8.1	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:26	28.35	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:26	21	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:31	988.27	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:31	0.34	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:31	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:31	-187.86	mv
GN-AP-MW-20V	pH	4/19/2022 11:31	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:31	28.4	C

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20V	Turbidity	4/19/2022 11:31	23.4	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:36	988.07	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:36	0.34	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:36	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:36	-188.59	mv
GN-AP-MW-20V	pH	4/19/2022 11:36	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:36	28.49	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:36	26.1	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:41	985.27	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:41	0.33	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:41	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:41	-188.6	mv
GN-AP-MW-20V	pH	4/19/2022 11:41	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:41	28.5	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:41	24.5	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:46	984.09	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:46	0.34	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:46	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:46	-188.73	mv
GN-AP-MW-20V	pH	4/19/2022 11:46	8.12	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:46	28.7	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:46	26.7	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:51	975.94	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:51	0.34	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:51	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:51	-188.29	mv
GN-AP-MW-20V	pH	4/19/2022 11:51	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:51	28.78	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:51	28.6	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 11:56	975.57	uS/cm
GN-AP-MW-20V	DO	4/19/2022 11:56	0.34	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 11:56	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 11:56	-188.39	mv
GN-AP-MW-20V	pH	4/19/2022 11:56	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 11:56	28.93	C
GN-AP-MW-20V	Turbidity	4/19/2022 11:56	27.9	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 12:01	975.05	uS/cm
GN-AP-MW-20V	DO	4/19/2022 12:01	0.35	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 12:01	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 12:01	-188.28	mv
GN-AP-MW-20V	pH	4/19/2022 12:01	8.1	SU
GN-AP-MW-20V	Temperature	4/19/2022 12:01	29.06	C
GN-AP-MW-20V	Turbidity	4/19/2022 12:01	29.5	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 12:06	972.32	uS/cm

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20V	DO	4/19/2022 12:06	0.34	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 12:06	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 12:06	-188.83	mv
GN-AP-MW-20V	pH	4/19/2022 12:06	8.12	SU
GN-AP-MW-20V	Temperature	4/19/2022 12:06	29.19	C
GN-AP-MW-20V	Turbidity	4/19/2022 12:06	26.9	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 12:11	970.54	uS/cm
GN-AP-MW-20V	DO	4/19/2022 12:11	0.34	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 12:11	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 12:11	-188.48	mv
GN-AP-MW-20V	pH	4/19/2022 12:11	8.11	SU
GN-AP-MW-20V	Temperature	4/19/2022 12:11	29.32	C
GN-AP-MW-20V	Turbidity	4/19/2022 12:11	29.1	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 12:16	964.32	uS/cm
GN-AP-MW-20V	DO	4/19/2022 12:16	0.35	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 12:16	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 12:16	-187.86	mv
GN-AP-MW-20V	pH	4/19/2022 12:16	8.1	SU
GN-AP-MW-20V	Temperature	4/19/2022 12:16	29.31	C
GN-AP-MW-20V	Turbidity	4/19/2022 12:16	30.3	NTU
GN-AP-MW-20V	Conductivity	4/19/2022 12:21	959.32	uS/cm
GN-AP-MW-20V	DO	4/19/2022 12:21	0.35	mg/L
GN-AP-MW-20V	Depth to Water Detail	4/19/2022 12:21	12.59	ft
GN-AP-MW-20V	Oxidation Reduction Potention	4/19/2022 12:21	-188.72	mv
GN-AP-MW-20V	pH	4/19/2022 12:21	8.11	SU
GN-AP-MW-20V	Sulfide	4/19/2022 12:21	0	mg/L
GN-AP-MW-20V	Temperature	4/19/2022 12:21	29.38	C
GN-AP-MW-20V	Turbidity	4/19/2022 12:21	29.8	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	Conductivity	4/27/2022 12:01	514.7	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:01	0.21	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:01	43.76	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:01	-121.33	mv
GN-AP-MW-31VR	pH	4/27/2022 12:01	7.23	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:01	20.35	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:01	1.07	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:06	511.89	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:06	0.2	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:06	44.41	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:06	-124.68	mv
GN-AP-MW-31VR	pH	4/27/2022 12:06	7.25	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:06	20.33	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:06	0.93	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:11	511.55	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:11	0.24	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:11	45.12	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:11	-128.2	mv
GN-AP-MW-31VR	pH	4/27/2022 12:11	7.25	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:11	20.25	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:11	1.12	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:16	510.17	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:16	0.28	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:16	46.08	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:16	-131.74	mv
GN-AP-MW-31VR	pH	4/27/2022 12:16	7.26	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:16	20.25	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:16	0.86	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:21	510.39	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:21	0.3	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:21	46.71	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:21	-135.36	mv
GN-AP-MW-31VR	pH	4/27/2022 12:21	7.27	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:21	20.18	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:21	0.92	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:26	510.13	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:26	0.32	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:26	47.36	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:26	-139.07	mv
GN-AP-MW-31VR	pH	4/27/2022 12:26	7.29	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:26	20.33	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:26	1.07	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:31	507.79	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:31	0.33	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:31	48.17	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:31	-143.08	mv
GN-AP-MW-31VR	pH	4/27/2022 12:31	7.32	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:31	20.17	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:31	1.1	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:36	507.74	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:36	0.33	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:36	48.96	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:36	-147.29	mv
GN-AP-MW-31VR	pH	4/27/2022 12:36	7.35	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:36	20.18	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:36	1.71	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:41	505.5	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:41	0.34	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:41	49.72	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:41	-152.09	mv
GN-AP-MW-31VR	pH	4/27/2022 12:41	7.4	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:41	20.2	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:41	1.53	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:46	505.92	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:46	0.34	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:46	50.49	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:46	-156.68	mv
GN-AP-MW-31VR	pH	4/27/2022 12:46	7.45	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:46	20.22	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:46	1.33	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:51	504.84	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:51	0.34	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:51	51.08	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:51	-161.78	mv
GN-AP-MW-31VR	pH	4/27/2022 12:51	7.47	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:51	20.22	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:51	1.21	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 12:56	500.13	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 12:56	0.34	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 12:56	51.9	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 12:56	-170.56	mv
GN-AP-MW-31VR	pH	4/27/2022 12:56	7.48	SU
GN-AP-MW-31VR	Temperature	4/27/2022 12:56	20.22	C
GN-AP-MW-31VR	Turbidity	4/27/2022 12:56	1.25	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:01	496.92	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:01	0.34	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:01	52.73	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:01	-179.6	mv

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	pH	4/27/2022 13:01	7.49	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:01	20.13	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:01	1.03	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:06	495.67	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:06	0.32	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:06	53.41	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:06	-188.75	mv
GN-AP-MW-31VR	pH	4/27/2022 13:06	7.52	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:06	20.4	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:06	1.08	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:11	498.2	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:11	0.37	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:11	53.58	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:11	-201.78	mv
GN-AP-MW-31VR	pH	4/27/2022 13:11	7.68	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:11	21.47	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:11	0.74	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:16	497.09	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:16	0.42	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:16	53.73	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:16	-208.49	mv
GN-AP-MW-31VR	pH	4/27/2022 13:16	7.73	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:16	21.85	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:16	0.84	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:21	497.05	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:21	0.62	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:21	53.9	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:21	-209.69	mv
GN-AP-MW-31VR	pH	4/27/2022 13:21	7.71	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:21	21.82	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:21	0.68	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:26	496.07	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:26	0.71	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:26	54.1	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:26	-210.52	mv
GN-AP-MW-31VR	pH	4/27/2022 13:26	7.71	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:26	21.86	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:26	0.76	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:31	496.14	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:31	0.72	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:31	54.22	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:31	-212.2	mv
GN-AP-MW-31VR	pH	4/27/2022 13:31	7.71	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:31	21.89	C

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	Turbidity	4/27/2022 13:31	0.72	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:36	497.35	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:36	0.69	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:36	54.42	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:36	-213.97	mv
GN-AP-MW-31VR	pH	4/27/2022 13:36	7.71	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:36	21.94	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:36	0.56	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:41	498.75	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:41	0.65	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:41	54.55	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:41	-216.68	mv
GN-AP-MW-31VR	pH	4/27/2022 13:41	7.71	SU
GN-AP-MW-31VR	Temperature	4/27/2022 13:41	21.8	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:41	0.78	NTU
GN-AP-MW-31VR	Conductivity	4/27/2022 13:46	496.83	uS/cm
GN-AP-MW-31VR	DO	4/27/2022 13:46	0.62	mg/L
GN-AP-MW-31VR	Depth to Water Detail	4/27/2022 13:46	54.7	ft
GN-AP-MW-31VR	Oxidation Reduction Potention	4/27/2022 13:46	-219.15	mv
GN-AP-MW-31VR	pH	4/27/2022 13:46	7.71	SU
GN-AP-MW-31VR	Sulfide	4/27/2022 13:46	2	mg/L
GN-AP-MW-31VR	Temperature	4/27/2022 13:46	21.94	C
GN-AP-MW-31VR	Turbidity	4/27/2022 13:46	0.75	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	Conductivity	4/27/2022 8:27	1060.6	uS/cm
GN-AP-MW-34V	DO	4/27/2022 8:27	0.35	mg/L
GN-AP-MW-34V	Depth to Water Detail	4/27/2022 8:27	49.78	ft
GN-AP-MW-34V	Oxidation Reduction Potention	4/27/2022 8:27	-200.38	mv
GN-AP-MW-34V	pH	4/27/2022 8:27	8.06	SU
GN-AP-MW-34V	Temperature	4/27/2022 8:27	18.73	C
GN-AP-MW-34V	Turbidity	4/27/2022 8:27	1.84	NTU
GN-AP-MW-34V	Conductivity	4/27/2022 8:32	1047.92	uS/cm
GN-AP-MW-34V	DO	4/27/2022 8:32	0.32	mg/L
GN-AP-MW-34V	Depth to Water Detail	4/27/2022 8:32	52.27	ft
GN-AP-MW-34V	Oxidation Reduction Potention	4/27/2022 8:32	-188.12	mv
GN-AP-MW-34V	pH	4/27/2022 8:32	8.08	SU
GN-AP-MW-34V	Temperature	4/27/2022 8:32	18.8	C
GN-AP-MW-34V	Turbidity	4/27/2022 8:32	1.34	NTU
GN-AP-MW-34V	Conductivity	4/27/2022 8:37	996.58	uS/cm
GN-AP-MW-34V	DO	4/27/2022 8:37	0.34	mg/L
GN-AP-MW-34V	Depth to Water Detail	4/27/2022 8:37	54.16	ft
GN-AP-MW-34V	Oxidation Reduction Potention	4/27/2022 8:37	-196.68	mv
GN-AP-MW-34V	pH	4/27/2022 8:37	7.95	SU
GN-AP-MW-34V	Temperature	4/27/2022 8:37	18.71	C
GN-AP-MW-34V	Turbidity	4/27/2022 8:37	1.26	NTU
GN-AP-MW-34V	Conductivity	4/27/2022 8:42	993.1	uS/cm
GN-AP-MW-34V	DO	4/27/2022 8:42	0.56	mg/L
GN-AP-MW-34V	Depth to Water Detail	4/27/2022 8:42	54.62	ft
GN-AP-MW-34V	Oxidation Reduction Potention	4/27/2022 8:42	-200.05	mv
GN-AP-MW-34V	pH	4/27/2022 8:42	7.91	SU
GN-AP-MW-34V	Temperature	4/27/2022 8:42	18.19	C
GN-AP-MW-34V	Turbidity	4/27/2022 8:42	1.8	NTU
GN-AP-MW-34V	Conductivity	4/27/2022 8:47	990.43	uS/cm
GN-AP-MW-34V	DO	4/27/2022 8:47	0.62	mg/L
GN-AP-MW-34V	Depth to Water Detail	4/27/2022 8:47	54.74	ft
GN-AP-MW-34V	Oxidation Reduction Potention	4/27/2022 8:47	-203.19	mv
GN-AP-MW-34V	pH	4/27/2022 8:47	7.88	SU
GN-AP-MW-34V	Temperature	4/27/2022 8:47	18.4	C
GN-AP-MW-34V	Turbidity	4/27/2022 8:47	2.02	NTU
GN-AP-MW-34V	Conductivity	4/27/2022 8:52	995.55	uS/cm
GN-AP-MW-34V	DO	4/27/2022 8:52	0.61	mg/L
GN-AP-MW-34V	Depth to Water Detail	4/27/2022 8:52	54.88	ft
GN-AP-MW-34V	Oxidation Reduction Potention	4/27/2022 8:52	-206.72	mv
GN-AP-MW-34V	pH	4/27/2022 8:52	7.86	SU
GN-AP-MW-34V	Sulfide	4/27/2022 8:52	3	mg/L
GN-AP-MW-34V	Temperature	4/27/2022 8:52	18.52	C
GN-AP-MW-34V	Turbidity	4/27/2022 8:52	1.96	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-35V	Conductivity	4/27/2022 9:41	432.65	uS/cm
GN-AP-MW-35V	DO	4/27/2022 9:41	0.35	mg/L
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 9:41	49.06	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 9:41	-151.44	mv
GN-AP-MW-35V	pH	4/27/2022 9:41	7.67	SU
GN-AP-MW-35V	Temperature	4/27/2022 9:41	19.14	C
GN-AP-MW-35V	Turbidity	4/27/2022 9:41	1.08	NTU
GN-AP-MW-35V	Conductivity	4/27/2022 9:46	439.32	uS/cm
GN-AP-MW-35V	DO	4/27/2022 9:46	0.3	mg/L
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 9:46	49.7	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 9:46	-169.38	mv
GN-AP-MW-35V	pH	4/27/2022 9:46	7.68	SU
GN-AP-MW-35V	Temperature	4/27/2022 9:46	19.22	C
GN-AP-MW-35V	Turbidity	4/27/2022 9:46	1.39	NTU
GN-AP-MW-35V	Conductivity	4/27/2022 9:51	440.1	uS/cm
GN-AP-MW-35V	DO	4/27/2022 9:51	0.33	mg/L
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 9:51	50.38	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 9:51	-175.69	mv
GN-AP-MW-35V	pH	4/27/2022 9:51	7.76	SU
GN-AP-MW-35V	Temperature	4/27/2022 9:51	19.22	C
GN-AP-MW-35V	Turbidity	4/27/2022 9:51	1.46	NTU
GN-AP-MW-35V	Conductivity	4/27/2022 9:56	439.77	uS/cm
GN-AP-MW-35V	DO	4/27/2022 9:56	0.41	mg/L
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 9:56	50.82	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 9:56	-182.15	mv
GN-AP-MW-35V	pH	4/27/2022 9:56	7.85	SU
GN-AP-MW-35V	Temperature	4/27/2022 9:56	19.22	C
GN-AP-MW-35V	Turbidity	4/27/2022 9:56	1.11	NTU
GN-AP-MW-35V	Conductivity	4/27/2022 10:01	439.5	uS/cm
GN-AP-MW-35V	DO	4/27/2022 10:01	0.49	mg/L
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 10:01	51.19	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 10:01	-187.18	mv
GN-AP-MW-35V	pH	4/27/2022 10:01	7.92	SU
GN-AP-MW-35V	Temperature	4/27/2022 10:01	19.43	C
GN-AP-MW-35V	Turbidity	4/27/2022 10:01	0.96	NTU
GN-AP-MW-35V	Conductivity	4/27/2022 10:06	438.84	uS/cm
GN-AP-MW-35V	DO	4/27/2022 10:06	0.7	mg/L
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 10:06	51.39	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 10:06	-188.47	mv
GN-AP-MW-35V	pH	4/27/2022 10:06	7.97	SU
GN-AP-MW-35V	Temperature	4/27/2022 10:06	19.43	C
GN-AP-MW-35V	Turbidity	4/27/2022 10:06	1.02	NTU
GN-AP-MW-35V	Conductivity	4/27/2022 10:11	437.53	uS/cm
GN-AP-MW-35V	DO	4/27/2022 10:11	0.79	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 10:11	51.55	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 10:11	-188.71	mv
GN-AP-MW-35V	pH	4/27/2022 10:11	7.98	SU
GN-AP-MW-35V	Temperature	4/27/2022 10:11	19.69	C
GN-AP-MW-35V	Turbidity	4/27/2022 10:11	0.84	NTU
GN-AP-MW-35V	Conductivity	4/27/2022 10:16	439.31	uS/cm
GN-AP-MW-35V	DO	4/27/2022 10:16	0.89	mg/L
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 10:16	51.71	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 10:16	-187.96	mv
GN-AP-MW-35V	pH	4/27/2022 10:16	7.99	SU
GN-AP-MW-35V	Temperature	4/27/2022 10:16	19.98	C
GN-AP-MW-35V	Turbidity	4/27/2022 10:16	0.77	NTU
GN-AP-MW-35V	Conductivity	4/27/2022 10:21	439.66	uS/cm
GN-AP-MW-35V	DO	4/27/2022 10:21	0.97	mg/L
GN-AP-MW-35V	Depth to Water Detail	4/27/2022 10:21	51.85	ft
GN-AP-MW-35V	Oxidation Reduction Potention	4/27/2022 10:21	-186.99	mv
GN-AP-MW-35V	pH	4/27/2022 10:21	8	SU
GN-AP-MW-35V	Sulfide	4/27/2022 10:21	1	mg/L
GN-AP-MW-35V	Temperature	4/27/2022 10:21	20.13	C
GN-AP-MW-35V	Turbidity	4/27/2022 10:21	0.76	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-32V	Conductivity	4/26/2022 14:08	631.91	uS/cm
GN-AP-MW-32V	DO	4/26/2022 14:08	1.13	mg/L
GN-AP-MW-32V	Depth to Water Detail	4/26/2022 14:08	46.94	ft
GN-AP-MW-32V	Oxidation Reduction Potention	4/26/2022 14:08	-201.11	mv
GN-AP-MW-32V	pH	4/26/2022 14:08	7.58	SU
GN-AP-MW-32V	Temperature	4/26/2022 14:08	21.24	C
GN-AP-MW-32V	Turbidity	4/26/2022 14:08	1.58	NTU
GN-AP-MW-32V	Conductivity	4/26/2022 14:13	612.82	uS/cm
GN-AP-MW-32V	DO	4/26/2022 14:13	0.92	mg/L
GN-AP-MW-32V	Depth to Water Detail	4/26/2022 14:13	47.29	ft
GN-AP-MW-32V	Oxidation Reduction Potention	4/26/2022 14:13	-231.27	mv
GN-AP-MW-32V	pH	4/26/2022 14:13	7.64	SU
GN-AP-MW-32V	Temperature	4/26/2022 14:13	21.76	C
GN-AP-MW-32V	Turbidity	4/26/2022 14:13	1.72	NTU
GN-AP-MW-32V	Conductivity	4/26/2022 14:18	636.44	uS/cm
GN-AP-MW-32V	DO	4/26/2022 14:18	0.81	mg/L
GN-AP-MW-32V	Depth to Water Detail	4/26/2022 14:18	47.59	ft
GN-AP-MW-32V	Oxidation Reduction Potention	4/26/2022 14:18	-252.6	mv
GN-AP-MW-32V	pH	4/26/2022 14:18	7.7	SU
GN-AP-MW-32V	Temperature	4/26/2022 14:18	21.62	C
GN-AP-MW-32V	Turbidity	4/26/2022 14:18	1.52	NTU
GN-AP-MW-32V	Conductivity	4/26/2022 14:23	679.74	uS/cm
GN-AP-MW-32V	DO	4/26/2022 14:23	0.77	mg/L
GN-AP-MW-32V	Depth to Water Detail	4/26/2022 14:23	47.81	ft
GN-AP-MW-32V	Oxidation Reduction Potention	4/26/2022 14:23	-253.97	mv
GN-AP-MW-32V	pH	4/26/2022 14:23	7.78	SU
GN-AP-MW-32V	Temperature	4/26/2022 14:23	21.44	C
GN-AP-MW-32V	Turbidity	4/26/2022 14:23	1.88	NTU
GN-AP-MW-32V	Conductivity	4/26/2022 14:28	694	uS/cm
GN-AP-MW-32V	DO	4/26/2022 14:28	0.79	mg/L
GN-AP-MW-32V	Depth to Water Detail	4/26/2022 14:28	48.06	ft
GN-AP-MW-32V	Oxidation Reduction Potention	4/26/2022 14:28	-241.84	mv
GN-AP-MW-32V	pH	4/26/2022 14:28	7.82	SU
GN-AP-MW-32V	Temperature	4/26/2022 14:28	21.41	C
GN-AP-MW-32V	Turbidity	4/26/2022 14:28	1.94	NTU
GN-AP-MW-32V	Conductivity	4/26/2022 14:33	696.84	uS/cm
GN-AP-MW-32V	DO	4/26/2022 14:33	0.79	mg/L
GN-AP-MW-32V	Depth to Water Detail	4/26/2022 14:33	48.16	ft
GN-AP-MW-32V	Oxidation Reduction Potention	4/26/2022 14:33	-233.29	mv
GN-AP-MW-32V	pH	4/26/2022 14:33	7.84	SU
GN-AP-MW-32V	Temperature	4/26/2022 14:33	21.41	C
GN-AP-MW-32V	Turbidity	4/26/2022 14:33	1.66	NTU
GN-AP-MW-32V	Conductivity	4/26/2022 14:38	697.38	uS/cm
GN-AP-MW-32V	DO	4/26/2022 14:38	0.8	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-32V	Depth to Water Detail	4/26/2022 14:38	48.25	ft
GN-AP-MW-32V	Oxidation Reduction Potention	4/26/2022 14:38	-228.97	mv
GN-AP-MW-32V	pH	4/26/2022 14:38	7.84	SU
GN-AP-MW-32V	Sulfide	4/26/2022 14:38	3	mg/L
GN-AP-MW-32V	Temperature	4/26/2022 14:38	21.4	C
GN-AP-MW-32V	Turbidity	4/26/2022 14:38	1.72	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-37V	Conductivity	4/26/2022 13:02	408.61	uS/cm
GN-AP-MW-37V	DO	4/26/2022 13:02	1.55	mg/L
GN-AP-MW-37V	Depth to Water Detail	4/26/2022 13:02	45.92	ft
GN-AP-MW-37V	Oxidation Reduction Potention	4/26/2022 13:02	-117.73	mv
GN-AP-MW-37V	pH	4/26/2022 13:02	7.58	SU
GN-AP-MW-37V	Temperature	4/26/2022 13:02	20.88	C
GN-AP-MW-37V	Turbidity	4/26/2022 13:02	1.32	NTU
GN-AP-MW-37V	Conductivity	4/26/2022 13:07	409.81	uS/cm
GN-AP-MW-37V	DO	4/26/2022 13:07	0.98	mg/L
GN-AP-MW-37V	Depth to Water Detail	4/26/2022 13:07	46.22	ft
GN-AP-MW-37V	Oxidation Reduction Potention	4/26/2022 13:07	-155.6	mv
GN-AP-MW-37V	pH	4/26/2022 13:07	7.71	SU
GN-AP-MW-37V	Temperature	4/26/2022 13:07	20.91	C
GN-AP-MW-37V	Turbidity	4/26/2022 13:07	1.88	NTU
GN-AP-MW-37V	Conductivity	4/26/2022 13:12	421.27	uS/cm
GN-AP-MW-37V	DO	4/26/2022 13:12	0.82	mg/L
GN-AP-MW-37V	Depth to Water Detail	4/26/2022 13:12	46.41	ft
GN-AP-MW-37V	Oxidation Reduction Potention	4/26/2022 13:12	-167.6	mv
GN-AP-MW-37V	pH	4/26/2022 13:12	7.82	SU
GN-AP-MW-37V	Temperature	4/26/2022 13:12	20.92	C
GN-AP-MW-37V	Turbidity	4/26/2022 13:12	1.67	NTU
GN-AP-MW-37V	Conductivity	4/26/2022 13:17	426.87	uS/cm
GN-AP-MW-37V	DO	4/26/2022 13:17	0.78	mg/L
GN-AP-MW-37V	Depth to Water Detail	4/26/2022 13:17	46.55	ft
GN-AP-MW-37V	Oxidation Reduction Potention	4/26/2022 13:17	-164.98	mv
GN-AP-MW-37V	pH	4/26/2022 13:17	7.88	SU
GN-AP-MW-37V	Temperature	4/26/2022 13:17	21	C
GN-AP-MW-37V	Turbidity	4/26/2022 13:17	1.71	NTU
GN-AP-MW-37V	Conductivity	4/26/2022 13:22	427.89	uS/cm
GN-AP-MW-37V	DO	4/26/2022 13:22	0.77	mg/L
GN-AP-MW-37V	Depth to Water Detail	4/26/2022 13:22	46.69	ft
GN-AP-MW-37V	Oxidation Reduction Potention	4/26/2022 13:22	-160.44	mv
GN-AP-MW-37V	pH	4/26/2022 13:22	7.9	SU
GN-AP-MW-37V	Sulfide	4/26/2022 13:22	0	mg/L
GN-AP-MW-37V	Temperature	4/26/2022 13:22	21.03	C
GN-AP-MW-37V	Turbidity	4/26/2022 13:22	1.04	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-14	Conductivity	4/27/2022 14:55	473.58	uS/cm
GN-AP-MW-14	DO	4/27/2022 14:55	0.37	mg/L
GN-AP-MW-14	Depth to Water Detail	4/27/2022 14:55	28.94	ft
GN-AP-MW-14	Oxidation Reduction Potention	4/27/2022 14:55	-159	mv
GN-AP-MW-14	pH	4/27/2022 14:55	7.33	SU
GN-AP-MW-14	Temperature	4/27/2022 14:55	21.24	C
GN-AP-MW-14	Turbidity	4/27/2022 14:55	0.63	NTU
GN-AP-MW-14	Conductivity	4/27/2022 15:00	474.42	uS/cm
GN-AP-MW-14	DO	4/27/2022 15:00	0.3	mg/L
GN-AP-MW-14	Depth to Water Detail	4/27/2022 15:00	29.01	ft
GN-AP-MW-14	Oxidation Reduction Potention	4/27/2022 15:00	-148.22	mv
GN-AP-MW-14	pH	4/27/2022 15:00	7.13	SU
GN-AP-MW-14	Temperature	4/27/2022 15:00	21.13	C
GN-AP-MW-14	Turbidity	4/27/2022 15:00	0.51	NTU
GN-AP-MW-14	Conductivity	4/27/2022 15:05	475.76	uS/cm
GN-AP-MW-14	DO	4/27/2022 15:05	0.27	mg/L
GN-AP-MW-14	Depth to Water Detail	4/27/2022 15:05	29.08	ft
GN-AP-MW-14	Oxidation Reduction Potention	4/27/2022 15:05	-145.21	mv
GN-AP-MW-14	pH	4/27/2022 15:05	7.07	SU
GN-AP-MW-14	Temperature	4/27/2022 15:05	21.1	C
GN-AP-MW-14	Turbidity	4/27/2022 15:05	0.38	NTU
GN-AP-MW-14	Conductivity	4/27/2022 15:10	480.02	uS/cm
GN-AP-MW-14	DO	4/27/2022 15:10	0.25	mg/L
GN-AP-MW-14	Depth to Water Detail	4/27/2022 15:10	29.14	ft
GN-AP-MW-14	Oxidation Reduction Potention	4/27/2022 15:10	-140.65	mv
GN-AP-MW-14	pH	4/27/2022 15:10	7.07	SU
GN-AP-MW-14	Sulfide	4/27/2022 15:10	0	mg/L
GN-AP-MW-14	Temperature	4/27/2022 15:10	21.14	C
GN-AP-MW-14	Turbidity	4/27/2022 15:10	0.57	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-16	Conductivity	4/27/2022 11:45	565.57	uS/cm
GN-AP-MW-16	DO	4/27/2022 11:45	0.29	mg/L
GN-AP-MW-16	Depth to Water Detail	4/27/2022 11:45	23.11	ft
GN-AP-MW-16	Oxidation Reduction Potention	4/27/2022 11:45	-121.26	mv
GN-AP-MW-16	pH	4/27/2022 11:45	8.28	SU
GN-AP-MW-16	Temperature	4/27/2022 11:45	20.54	C
GN-AP-MW-16	Turbidity	4/27/2022 11:45	7.71	NTU
GN-AP-MW-16	Conductivity	4/27/2022 11:50	567.96	uS/cm
GN-AP-MW-16	DO	4/27/2022 11:50	0.23	mg/L
GN-AP-MW-16	Depth to Water Detail	4/27/2022 11:50	23.13	ft
GN-AP-MW-16	Oxidation Reduction Potention	4/27/2022 11:50	-133.38	mv
GN-AP-MW-16	pH	4/27/2022 11:50	8.18	SU
GN-AP-MW-16	Temperature	4/27/2022 11:50	20.58	C
GN-AP-MW-16	Turbidity	4/27/2022 11:50	3.34	NTU
GN-AP-MW-16	Conductivity	4/27/2022 11:55	570.87	uS/cm
GN-AP-MW-16	DO	4/27/2022 11:55	0.22	mg/L
GN-AP-MW-16	Depth to Water Detail	4/27/2022 11:55	23.16	ft
GN-AP-MW-16	Oxidation Reduction Potention	4/27/2022 11:55	-143.99	mv
GN-AP-MW-16	pH	4/27/2022 11:55	8.18	SU
GN-AP-MW-16	Temperature	4/27/2022 11:55	20.59	C
GN-AP-MW-16	Turbidity	4/27/2022 11:55	2.3	NTU
GN-AP-MW-16	Conductivity	4/27/2022 12:00	571.95	uS/cm
GN-AP-MW-16	DO	4/27/2022 12:00	0.21	mg/L
GN-AP-MW-16	Depth to Water Detail	4/27/2022 12:00	23.17	ft
GN-AP-MW-16	Oxidation Reduction Potention	4/27/2022 12:00	-149.34	mv
GN-AP-MW-16	pH	4/27/2022 12:00	8.17	SU
GN-AP-MW-16	Sulfide	4/27/2022 12:00	0	mg/L
GN-AP-MW-16	Temperature	4/27/2022 12:00	20.63	C
GN-AP-MW-16	Turbidity	4/27/2022 12:00	2.21	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-16V	Conductivity	4/27/2022 9:53	527.28	uS/cm
GN-AP-MW-16V	DO	4/27/2022 9:53	0.86	mg/L
GN-AP-MW-16V	Depth to Water Detail	4/27/2022 9:53	20.82	ft
GN-AP-MW-16V	Oxidation Reduction Potention	4/27/2022 9:53	-94.63	mv
GN-AP-MW-16V	pH	4/27/2022 9:53	7.99	SU
GN-AP-MW-16V	Temperature	4/27/2022 9:53	18.74	C
GN-AP-MW-16V	Turbidity	4/27/2022 9:53	3.12	NTU
GN-AP-MW-16V	Conductivity	4/27/2022 9:58	531.84	uS/cm
GN-AP-MW-16V	DO	4/27/2022 9:58	0.7	mg/L
GN-AP-MW-16V	Depth to Water Detail	4/27/2022 9:58	21.2	ft
GN-AP-MW-16V	Oxidation Reduction Potention	4/27/2022 9:58	-99.89	mv
GN-AP-MW-16V	pH	4/27/2022 9:58	8.34	SU
GN-AP-MW-16V	Temperature	4/27/2022 9:58	18.88	C
GN-AP-MW-16V	Turbidity	4/27/2022 9:58	1.2	NTU
GN-AP-MW-16V	Conductivity	4/27/2022 10:03	531.35	uS/cm
GN-AP-MW-16V	DO	4/27/2022 10:03	0.67	mg/L
GN-AP-MW-16V	Depth to Water Detail	4/27/2022 10:03	21.5	ft
GN-AP-MW-16V	Oxidation Reduction Potention	4/27/2022 10:03	-106.77	mv
GN-AP-MW-16V	pH	4/27/2022 10:03	8.38	SU
GN-AP-MW-16V	Temperature	4/27/2022 10:03	18.95	C
GN-AP-MW-16V	Turbidity	4/27/2022 10:03	1.09	NTU
GN-AP-MW-16V	Conductivity	4/27/2022 10:08	530.55	uS/cm
GN-AP-MW-16V	DO	4/27/2022 10:08	0.69	mg/L
GN-AP-MW-16V	Depth to Water Detail	4/27/2022 10:08	21.86	ft
GN-AP-MW-16V	Oxidation Reduction Potention	4/27/2022 10:08	-111.37	mv
GN-AP-MW-16V	pH	4/27/2022 10:08	8.41	SU
GN-AP-MW-16V	Temperature	4/27/2022 10:08	19.03	C
GN-AP-MW-16V	Turbidity	4/27/2022 10:08	0.7	NTU
GN-AP-MW-16V	Conductivity	4/27/2022 10:13	528.94	uS/cm
GN-AP-MW-16V	DO	4/27/2022 10:13	0.87	mg/L
GN-AP-MW-16V	Depth to Water Detail	4/27/2022 10:13	21.89	ft
GN-AP-MW-16V	Oxidation Reduction Potention	4/27/2022 10:13	-110.57	mv
GN-AP-MW-16V	pH	4/27/2022 10:13	8.43	SU
GN-AP-MW-16V	Temperature	4/27/2022 10:13	18.85	C
GN-AP-MW-16V	Turbidity	4/27/2022 10:13	0.61	NTU
GN-AP-MW-16V	Conductivity	4/27/2022 10:18	528.2	uS/cm
GN-AP-MW-16V	DO	4/27/2022 10:18	0.89	mg/L
GN-AP-MW-16V	Depth to Water Detail	4/27/2022 10:18	21.89	ft
GN-AP-MW-16V	Oxidation Reduction Potention	4/27/2022 10:18	-109.45	mv
GN-AP-MW-16V	pH	4/27/2022 10:18	8.45	SU
GN-AP-MW-16V	Temperature	4/27/2022 10:18	18.76	C
GN-AP-MW-16V	Turbidity	4/27/2022 10:18	0.59	NTU
GN-AP-MW-16V	Conductivity	4/27/2022 10:23	527.52	uS/cm
GN-AP-MW-16V	DO	4/27/2022 10:23	0.91	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-16V	Depth to Water Detail	4/27/2022 10:23	21.89	ft
GN-AP-MW-16V	Oxidation Reduction Potention	4/27/2022 10:23	-108.35	mv
GN-AP-MW-16V	pH	4/27/2022 10:23	8.45	SU
GN-AP-MW-16V	Sulfide	4/27/2022 10:23	0	mg/L
GN-AP-MW-16V	Temperature	4/27/2022 10:23	18.8	C
GN-AP-MW-16V	Turbidity	4/27/2022 10:23	0.92	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17V	Conductivity	4/26/2022 12:13	783.28	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:13	0.68	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:13	10.05	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:13	-164.16	mv
GN-AP-MW-17V	pH	4/26/2022 12:13	8.31	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:13	20.35	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:13	2.49	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:18	728.19	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:18	0.63	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:18	13.83	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:18	-175.22	mv
GN-AP-MW-17V	pH	4/26/2022 12:18	8.25	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:18	20.38	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:18	2.97	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:23	749.96	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:23	0.58	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:23	16.84	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:23	-180.67	mv
GN-AP-MW-17V	pH	4/26/2022 12:23	8.26	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:23	20.4	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:23	2.68	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:28	746.84	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:28	0.64	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:28	19.6	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:28	-175.1	mv
GN-AP-MW-17V	pH	4/26/2022 12:28	8.24	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:28	20.48	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:28	1.85	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:33	494.16	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:33	1.37	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:33	20.36	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:33	-148.18	mv
GN-AP-MW-17V	pH	4/26/2022 12:33	8.19	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:33	20.38	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:33	1.74	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:38	625.06	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:38	1.71	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:38	20.91	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:38	-140.02	mv
GN-AP-MW-17V	pH	4/26/2022 12:38	8.19	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:38	20.5	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:38	2.24	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:43	758.23	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:43	2.12	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:43	21.06	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:43	-134.75	mv
GN-AP-MW-17V	pH	4/26/2022 12:43	8.21	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:43	20.42	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:43	3.01	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:48	602.4	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:48	2.44	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:48	21.14	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:48	-132.18	mv
GN-AP-MW-17V	pH	4/26/2022 12:48	8.25	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:48	20.37	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:48	2.45	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:53	736.25	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:53	2.54	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:53	21.36	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:53	-132.96	mv
GN-AP-MW-17V	pH	4/26/2022 12:53	8.31	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:53	20.34	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:53	2.6	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 12:58	737.49	uS/cm
GN-AP-MW-17V	DO	4/26/2022 12:58	2.59	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 12:58	21.5	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 12:58	-132.58	mv
GN-AP-MW-17V	pH	4/26/2022 12:58	8.33	SU
GN-AP-MW-17V	Temperature	4/26/2022 12:58	20.27	C
GN-AP-MW-17V	Turbidity	4/26/2022 12:58	2.68	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 13:03	490.74	uS/cm
GN-AP-MW-17V	DO	4/26/2022 13:03	2.61	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 13:03	21.63	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 13:03	-133.46	mv
GN-AP-MW-17V	pH	4/26/2022 13:03	8.35	SU
GN-AP-MW-17V	Temperature	4/26/2022 13:03	20.27	C
GN-AP-MW-17V	Turbidity	4/26/2022 13:03	2.77	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 13:08	792.73	uS/cm
GN-AP-MW-17V	DO	4/26/2022 13:08	2.83	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 13:08	21.88	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 13:08	-137.74	mv
GN-AP-MW-17V	pH	4/26/2022 13:08	8.36	SU
GN-AP-MW-17V	Temperature	4/26/2022 13:08	20.29	C
GN-AP-MW-17V	Turbidity	4/26/2022 13:08	3.41	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 13:13	800.82	uS/cm
GN-AP-MW-17V	DO	4/26/2022 13:13	2.71	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 13:13	22.03	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 13:13	-138.95	mv

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17V	pH	4/26/2022 13:13	8.37	SU
GN-AP-MW-17V	Temperature	4/26/2022 13:13	20.34	C
GN-AP-MW-17V	Turbidity	4/26/2022 13:13	2.62	NTU
GN-AP-MW-17V	Conductivity	4/26/2022 13:18	807.96	uS/cm
GN-AP-MW-17V	DO	4/26/2022 13:18	2.9	mg/L
GN-AP-MW-17V	Depth to Water Detail	4/26/2022 13:18	22.15	ft
GN-AP-MW-17V	Oxidation Reduction Potention	4/26/2022 13:18	-140.8	mv
GN-AP-MW-17V	pH	4/26/2022 13:18	8.39	SU
GN-AP-MW-17V	Sulfide	4/26/2022 13:18	0	mg/L
GN-AP-MW-17V	Temperature	4/26/2022 13:18	20.52	C
GN-AP-MW-17V	Turbidity	4/26/2022 13:18	2.73	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-18	Conductivity	4/26/2022 11:12	823.17	uS/cm
GN-AP-MW-18	DO	4/26/2022 11:12	0.2	mg/L
GN-AP-MW-18	Depth to Water Detail	4/26/2022 11:12	20.24	ft
GN-AP-MW-18	Oxidation Reduction Potention	4/26/2022 11:12	50.72	mv
GN-AP-MW-18	pH	4/26/2022 11:12	6.81	SU
GN-AP-MW-18	Temperature	4/26/2022 11:12	19.29	C
GN-AP-MW-18	Turbidity	4/26/2022 11:12	5.36	NTU
GN-AP-MW-18	Conductivity	4/26/2022 11:17	866.32	uS/cm
GN-AP-MW-18	DO	4/26/2022 11:17	0.17	mg/L
GN-AP-MW-18	Depth to Water Detail	4/26/2022 11:17	20.24	ft
GN-AP-MW-18	Oxidation Reduction Potention	4/26/2022 11:17	63.23	mv
GN-AP-MW-18	pH	4/26/2022 11:17	6.78	SU
GN-AP-MW-18	Temperature	4/26/2022 11:17	19.31	C
GN-AP-MW-18	Turbidity	4/26/2022 11:17	2.57	NTU
GN-AP-MW-18	Conductivity	4/26/2022 11:22	890.61	uS/cm
GN-AP-MW-18	DO	4/26/2022 11:22	0.16	mg/L
GN-AP-MW-18	Depth to Water Detail	4/26/2022 11:22	20.24	ft
GN-AP-MW-18	Oxidation Reduction Potention	4/26/2022 11:22	52.61	mv
GN-AP-MW-18	pH	4/26/2022 11:22	6.77	SU
GN-AP-MW-18	Temperature	4/26/2022 11:22	19.32	C
GN-AP-MW-18	Turbidity	4/26/2022 11:22	1.44	NTU
GN-AP-MW-18	Conductivity	4/26/2022 11:27	893.68	uS/cm
GN-AP-MW-18	DO	4/26/2022 11:27	0.16	mg/L
GN-AP-MW-18	Depth to Water Detail	4/26/2022 11:27	20.24	ft
GN-AP-MW-18	Oxidation Reduction Potention	4/26/2022 11:27	36.44	mv
GN-AP-MW-18	pH	4/26/2022 11:27	6.77	SU
GN-AP-MW-18	Sulfide	4/26/2022 11:27	0	mg/L
GN-AP-MW-18	Temperature	4/26/2022 11:27	19.31	C
GN-AP-MW-18	Turbidity	4/26/2022 11:27	1.09	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	Conductivity	4/26/2022 14:33	569.27	uS/cm
GN-AP-MW-29H	DO	4/26/2022 14:33	0.18	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 14:33	10.86	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 14:33	-202.06	mv
GN-AP-MW-29H	pH	4/26/2022 14:33	8.39	SU
GN-AP-MW-29H	Temperature	4/26/2022 14:33	20.5	C
GN-AP-MW-29H	Turbidity	4/26/2022 14:33	1.47	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 14:38	567.96	uS/cm
GN-AP-MW-29H	DO	4/26/2022 14:38	0.18	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 14:38	13.76	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 14:38	-224.2	mv
GN-AP-MW-29H	pH	4/26/2022 14:38	8.23	SU
GN-AP-MW-29H	Temperature	4/26/2022 14:38	20.44	C
GN-AP-MW-29H	Turbidity	4/26/2022 14:38	1	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 14:43	567.43	uS/cm
GN-AP-MW-29H	DO	4/26/2022 14:43	0.18	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 14:43	16.41	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 14:43	-228.42	mv
GN-AP-MW-29H	pH	4/26/2022 14:43	8.13	SU
GN-AP-MW-29H	Temperature	4/26/2022 14:43	20.53	C
GN-AP-MW-29H	Turbidity	4/26/2022 14:43	1.32	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 14:48	566.94	uS/cm
GN-AP-MW-29H	DO	4/26/2022 14:48	0.18	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 14:48	19.91	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 14:48	-230.61	mv
GN-AP-MW-29H	pH	4/26/2022 14:48	8.1	SU
GN-AP-MW-29H	Temperature	4/26/2022 14:48	20.68	C
GN-AP-MW-29H	Turbidity	4/26/2022 14:48	1.28	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 14:53	566.95	uS/cm
GN-AP-MW-29H	DO	4/26/2022 14:53	0.18	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 14:53	22.68	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 14:53	-232.86	mv
GN-AP-MW-29H	pH	4/26/2022 14:53	8.1	SU
GN-AP-MW-29H	Temperature	4/26/2022 14:53	20.82	C
GN-AP-MW-29H	Turbidity	4/26/2022 14:53	0.98	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 14:58	567.16	uS/cm
GN-AP-MW-29H	DO	4/26/2022 14:58	0.18	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 14:58	25.42	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 14:58	-235.14	mv
GN-AP-MW-29H	pH	4/26/2022 14:58	8.12	SU
GN-AP-MW-29H	Temperature	4/26/2022 14:58	20.71	C
GN-AP-MW-29H	Turbidity	4/26/2022 14:58	1.41	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 15:03	567.6	uS/cm
GN-AP-MW-29H	DO	4/26/2022 15:03	0.18	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 15:03	29.22	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 15:03	-238.3	mv
GN-AP-MW-29H	pH	4/26/2022 15:03	8.14	SU
GN-AP-MW-29H	Temperature	4/26/2022 15:03	20.81	C
GN-AP-MW-29H	Turbidity	4/26/2022 15:03	1.1	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 15:08	567.44	uS/cm
GN-AP-MW-29H	DO	4/26/2022 15:08	0.18	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 15:08	32.86	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 15:08	-240.19	mv
GN-AP-MW-29H	pH	4/26/2022 15:08	8.15	SU
GN-AP-MW-29H	Temperature	4/26/2022 15:08	20.91	C
GN-AP-MW-29H	Turbidity	4/26/2022 15:08	1.26	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 15:13	566.98	uS/cm
GN-AP-MW-29H	DO	4/26/2022 15:13	0.18	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 15:13	34.24	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 15:13	-240.33	mv
GN-AP-MW-29H	pH	4/26/2022 15:13	8.15	SU
GN-AP-MW-29H	Temperature	4/26/2022 15:13	21	C
GN-AP-MW-29H	Turbidity	4/26/2022 15:13	1.14	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 15:18	568.13	uS/cm
GN-AP-MW-29H	DO	4/26/2022 15:18	0.45	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 15:18	34.26	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 15:18	-227.88	mv
GN-AP-MW-29H	pH	4/26/2022 15:18	8.14	SU
GN-AP-MW-29H	Temperature	4/26/2022 15:18	22.37	C
GN-AP-MW-29H	Turbidity	4/26/2022 15:18	1.31	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 15:23	566.56	uS/cm
GN-AP-MW-29H	DO	4/26/2022 15:23	0.46	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 15:23	34.31	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 15:23	-225.08	mv
GN-AP-MW-29H	pH	4/26/2022 15:23	8.21	SU
GN-AP-MW-29H	Temperature	4/26/2022 15:23	21.44	C
GN-AP-MW-29H	Turbidity	4/26/2022 15:23	1.14	NTU
GN-AP-MW-29H	Conductivity	4/26/2022 15:28	567.43	uS/cm
GN-AP-MW-29H	DO	4/26/2022 15:28	0.52	mg/L
GN-AP-MW-29H	Depth to Water Detail	4/26/2022 15:28	34.38	ft
GN-AP-MW-29H	Oxidation Reduction Potention	4/26/2022 15:28	-219.37	mv
GN-AP-MW-29H	pH	4/26/2022 15:28	8.29	SU
GN-AP-MW-29H	Sulfide	4/26/2022 15:28	0	mg/L
GN-AP-MW-29H	Temperature	4/26/2022 15:28	21.45	C
GN-AP-MW-29H	Turbidity	4/26/2022 15:28	1.36	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-28H	Conductivity	4/27/2022 13:03	452.15	uS/cm
GN-AP-MW-28H	DO	4/27/2022 13:03	0.2	mg/L
GN-AP-MW-28H	Depth to Water Detail	4/27/2022 13:03	16.42	ft
GN-AP-MW-28H	Oxidation Reduction Potention	4/27/2022 13:03	-191.45	mv
GN-AP-MW-28H	pH	4/27/2022 13:03	8.11	SU
GN-AP-MW-28H	Temperature	4/27/2022 13:03	21.19	C
GN-AP-MW-28H	Turbidity	4/27/2022 13:03	0.68	NTU
GN-AP-MW-28H	Conductivity	4/27/2022 13:08	455.36	uS/cm
GN-AP-MW-28H	DO	4/27/2022 13:08	0.19	mg/L
GN-AP-MW-28H	Depth to Water Detail	4/27/2022 13:08	16.91	ft
GN-AP-MW-28H	Oxidation Reduction Potention	4/27/2022 13:08	-182.58	mv
GN-AP-MW-28H	pH	4/27/2022 13:08	7.95	SU
GN-AP-MW-28H	Temperature	4/27/2022 13:08	21.12	C
GN-AP-MW-28H	Turbidity	4/27/2022 13:08	0.4	NTU
GN-AP-MW-28H	Conductivity	4/27/2022 13:13	454.17	uS/cm
GN-AP-MW-28H	DO	4/27/2022 13:13	0.19	mg/L
GN-AP-MW-28H	Depth to Water Detail	4/27/2022 13:13	17.3	ft
GN-AP-MW-28H	Oxidation Reduction Potention	4/27/2022 13:13	-174.73	mv
GN-AP-MW-28H	pH	4/27/2022 13:13	7.85	SU
GN-AP-MW-28H	Temperature	4/27/2022 13:13	21.05	C
GN-AP-MW-28H	Turbidity	4/27/2022 13:13	0.34	NTU
GN-AP-MW-28H	Conductivity	4/27/2022 13:18	454.51	uS/cm
GN-AP-MW-28H	DO	4/27/2022 13:18	0.19	mg/L
GN-AP-MW-28H	Depth to Water Detail	4/27/2022 13:18	17.4	ft
GN-AP-MW-28H	Oxidation Reduction Potention	4/27/2022 13:18	-170.91	mv
GN-AP-MW-28H	pH	4/27/2022 13:18	7.83	SU
GN-AP-MW-28H	Temperature	4/27/2022 13:18	21.11	C
GN-AP-MW-28H	Turbidity	4/27/2022 13:18	0.89	NTU
GN-AP-MW-28H	Conductivity	4/27/2022 13:23	452.94	uS/cm
GN-AP-MW-28H	DO	4/27/2022 13:23	0.18	mg/L
GN-AP-MW-28H	Depth to Water Detail	4/27/2022 13:23	17.56	ft
GN-AP-MW-28H	Oxidation Reduction Potention	4/27/2022 13:23	-169.68	mv
GN-AP-MW-28H	pH	4/27/2022 13:23	7.83	SU
GN-AP-MW-28H	Sulfide	4/27/2022 13:23	0	mg/L
GN-AP-MW-28H	Temperature	4/27/2022 13:23	21.2	C
GN-AP-MW-28H	Turbidity	4/27/2022 13:23	1.77	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-3	Conductivity	5/3/2022 8:02	259.29	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:02	3.85	mg/L
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:02	23.09	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:02	31.03	mv
GN-AP-MW-3	pH	5/3/2022 8:02	7.71	SU
GN-AP-MW-3	Temperature	5/3/2022 8:02	18.95	C
GN-AP-MW-3	Turbidity	5/3/2022 8:02	0.8	NTU
GN-AP-MW-3	Conductivity	5/3/2022 8:07	258.46	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:07	4.09	mg/L
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:07	23.89	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:07	35.78	mv
GN-AP-MW-3	pH	5/3/2022 8:07	7.71	SU
GN-AP-MW-3	Temperature	5/3/2022 8:07	18.87	C
GN-AP-MW-3	Turbidity	5/3/2022 8:07	0.93	NTU
GN-AP-MW-3	Conductivity	5/3/2022 8:12	257.72	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:12	4.26	mg/L
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:12	24.51	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:12	41.3	mv
GN-AP-MW-3	pH	5/3/2022 8:12	7.72	SU
GN-AP-MW-3	Temperature	5/3/2022 8:12	18.87	C
GN-AP-MW-3	Turbidity	5/3/2022 8:12	0.74	NTU
GN-AP-MW-3	Conductivity	5/3/2022 8:17	257.53	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:17	4.36	mg/L
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:17	24.86	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:17	47.09	mv
GN-AP-MW-3	pH	5/3/2022 8:17	7.72	SU
GN-AP-MW-3	Temperature	5/3/2022 8:17	18.79	C
GN-AP-MW-3	Turbidity	5/3/2022 8:17	0.75	NTU
GN-AP-MW-3	Conductivity	5/3/2022 8:22	257.55	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:22	4.39	mg/L
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:22	25.16	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:22	50.98	mv
GN-AP-MW-3	pH	5/3/2022 8:22	7.72	SU
GN-AP-MW-3	Temperature	5/3/2022 8:22	18.83	C
GN-AP-MW-3	Turbidity	5/3/2022 8:22	0.77	NTU
GN-AP-MW-3	Conductivity	5/3/2022 8:27	257.31	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:27	4.38	mg/L
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:27	25.33	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:27	54.87	mv
GN-AP-MW-3	pH	5/3/2022 8:27	7.72	SU
GN-AP-MW-3	Temperature	5/3/2022 8:27	18.75	C
GN-AP-MW-3	Turbidity	5/3/2022 8:27	0.76	NTU
GN-AP-MW-3	Conductivity	5/3/2022 8:32	256.78	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:32	4.41	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:32	25.58	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:32	57.04	mv
GN-AP-MW-3	pH	5/3/2022 8:32	7.72	SU
GN-AP-MW-3	Temperature	5/3/2022 8:32	18.75	C
GN-AP-MW-3	Turbidity	5/3/2022 8:32	0.71	NTU
GN-AP-MW-3	Conductivity	5/3/2022 8:37	256.25	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:37	4.42	mg/L
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:37	25.72	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:37	59	mv
GN-AP-MW-3	pH	5/3/2022 8:37	7.73	SU
GN-AP-MW-3	Temperature	5/3/2022 8:37	18.79	C
GN-AP-MW-3	Turbidity	5/3/2022 8:37	0.68	NTU
GN-AP-MW-3	Conductivity	5/3/2022 8:42	250.96	uS/cm
GN-AP-MW-3	DO	5/3/2022 8:42	4.44	mg/L
GN-AP-MW-3	Depth to Water Detail	5/3/2022 8:42	25.86	ft
GN-AP-MW-3	Oxidation Reduction Potention	5/3/2022 8:42	61.28	mv
GN-AP-MW-3	pH	5/3/2022 8:42	7.72	SU
GN-AP-MW-3	Sulfide	5/3/2022 8:42	0	mg/L
GN-AP-MW-3	Temperature	5/3/2022 8:42	18.83	C
GN-AP-MW-3	Turbidity	5/3/2022 8:42	0.71	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-4	Conductivity	5/2/2022 13:55	478.22	uS/cm
GN-AP-MW-4	DO	5/2/2022 13:55	0.8	mg/L
GN-AP-MW-4	Depth to Water Detail	5/2/2022 13:55	19.56	ft
GN-AP-MW-4	Oxidation Reduction Potention	5/2/2022 13:55	53.08	mv
GN-AP-MW-4	pH	5/2/2022 13:55	6.58	SU
GN-AP-MW-4	Temperature	5/2/2022 13:55	19.81	C
GN-AP-MW-4	Turbidity	5/2/2022 13:55	4.29	NTU
GN-AP-MW-4	Conductivity	5/2/2022 14:00	470.69	uS/cm
GN-AP-MW-4	DO	5/2/2022 14:00	1.06	mg/L
GN-AP-MW-4	Depth to Water Detail	5/2/2022 14:00	19.58	ft
GN-AP-MW-4	Oxidation Reduction Potention	5/2/2022 14:00	58.39	mv
GN-AP-MW-4	pH	5/2/2022 14:00	6.6	SU
GN-AP-MW-4	Temperature	5/2/2022 14:00	19.67	C
GN-AP-MW-4	Turbidity	5/2/2022 14:00	2.8	NTU
GN-AP-MW-4	Conductivity	5/2/2022 14:05	465.28	uS/cm
GN-AP-MW-4	DO	5/2/2022 14:05	1.17	mg/L
GN-AP-MW-4	Depth to Water Detail	5/2/2022 14:05	19.58	ft
GN-AP-MW-4	Oxidation Reduction Potention	5/2/2022 14:05	62.21	mv
GN-AP-MW-4	pH	5/2/2022 14:05	6.64	SU
GN-AP-MW-4	Temperature	5/2/2022 14:05	19.6	C
GN-AP-MW-4	Turbidity	5/2/2022 14:05	3.19	NTU
GN-AP-MW-4	Conductivity	5/2/2022 14:10	463.16	uS/cm
GN-AP-MW-4	DO	5/2/2022 14:10	1.22	mg/L
GN-AP-MW-4	Depth to Water Detail	5/2/2022 14:10	19.58	ft
GN-AP-MW-4	Oxidation Reduction Potention	5/2/2022 14:10	64.19	mv
GN-AP-MW-4	pH	5/2/2022 14:10	6.68	SU
GN-AP-MW-4	Sulfide	5/2/2022 14:10	0	mg/L
GN-AP-MW-4	Temperature	5/2/2022 14:10	19.58	C
GN-AP-MW-4	Turbidity	5/2/2022 14:10	2.74	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-5	Conductivity	5/3/2022 9:57	408.74	uS/cm
GN-AP-MW-5	DO	5/3/2022 9:57	4.6	mg/L
GN-AP-MW-5	Depth to Water Detail	5/3/2022 9:57	16.71	ft
GN-AP-MW-5	Oxidation Reduction Potention	5/3/2022 9:57	97.71	mv
GN-AP-MW-5	pH	5/3/2022 9:57	6.83	SU
GN-AP-MW-5	Temperature	5/3/2022 9:57	20.38	C
GN-AP-MW-5	Turbidity	5/3/2022 9:57	4.18	NTU
GN-AP-MW-5	Conductivity	5/3/2022 10:02	401.91	uS/cm
GN-AP-MW-5	DO	5/3/2022 10:02	4.84	mg/L
GN-AP-MW-5	Depth to Water Detail	5/3/2022 10:02	16.71	ft
GN-AP-MW-5	Oxidation Reduction Potention	5/3/2022 10:02	97.31	mv
GN-AP-MW-5	pH	5/3/2022 10:02	6.85	SU
GN-AP-MW-5	Temperature	5/3/2022 10:02	20.23	C
GN-AP-MW-5	Turbidity	5/3/2022 10:02	3.71	NTU
GN-AP-MW-5	Conductivity	5/3/2022 10:07	400.44	uS/cm
GN-AP-MW-5	DO	5/3/2022 10:07	4.87	mg/L
GN-AP-MW-5	Depth to Water Detail	5/3/2022 10:07	16.71	ft
GN-AP-MW-5	Oxidation Reduction Potention	5/3/2022 10:07	95.56	mv
GN-AP-MW-5	pH	5/3/2022 10:07	6.92	SU
GN-AP-MW-5	Temperature	5/3/2022 10:07	20.18	C
GN-AP-MW-5	Turbidity	5/3/2022 10:07	3.54	NTU
GN-AP-MW-5	Conductivity	5/3/2022 10:12	399.87	uS/cm
GN-AP-MW-5	DO	5/3/2022 10:12	4.91	mg/L
GN-AP-MW-5	Depth to Water Detail	5/3/2022 10:12	16.71	ft
GN-AP-MW-5	Oxidation Reduction Potention	5/3/2022 10:12	93.42	mv
GN-AP-MW-5	pH	5/3/2022 10:12	7.01	SU
GN-AP-MW-5	Sulfide	5/3/2022 10:12	0	mg/L
GN-AP-MW-5	Temperature	5/3/2022 10:12	20.1	C
GN-AP-MW-5	Turbidity	5/3/2022 10:12	3.52	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-15R	Conductivity	5/2/2022 11:15	886.14	uS/cm
GN-AP-MW-15R	DO	5/2/2022 11:15	1.08	mg/L
GN-AP-MW-15R	Depth to Water Detail	5/2/2022 11:15	43.71	ft
GN-AP-MW-15R	Oxidation Reduction Potention	5/2/2022 11:15	-5.81	mv
GN-AP-MW-15R	pH	5/2/2022 11:15	7.37	SU
GN-AP-MW-15R	Temperature	5/2/2022 11:15	20.09	C
GN-AP-MW-15R	Turbidity	5/2/2022 11:15	0.88	NTU
GN-AP-MW-15R	Conductivity	5/2/2022 11:20	885.75	uS/cm
GN-AP-MW-15R	DO	5/2/2022 11:20	0.85	mg/L
GN-AP-MW-15R	Depth to Water Detail	5/2/2022 11:20	44.28	ft
GN-AP-MW-15R	Oxidation Reduction Potention	5/2/2022 11:20	-10.93	mv
GN-AP-MW-15R	pH	5/2/2022 11:20	7.44	SU
GN-AP-MW-15R	Temperature	5/2/2022 11:20	20.11	C
GN-AP-MW-15R	Turbidity	5/2/2022 11:20	1.01	NTU
GN-AP-MW-15R	Conductivity	5/2/2022 11:25	885.17	uS/cm
GN-AP-MW-15R	DO	5/2/2022 11:25	0.79	mg/L
GN-AP-MW-15R	Depth to Water Detail	5/2/2022 11:25	44.66	ft
GN-AP-MW-15R	Oxidation Reduction Potention	5/2/2022 11:25	-15.91	mv
GN-AP-MW-15R	pH	5/2/2022 11:25	7.48	SU
GN-AP-MW-15R	Temperature	5/2/2022 11:25	20.17	C
GN-AP-MW-15R	Turbidity	5/2/2022 11:25	0.98	NTU
GN-AP-MW-15R	Conductivity	5/2/2022 11:30	884.47	uS/cm
GN-AP-MW-15R	DO	5/2/2022 11:30	0.85	mg/L
GN-AP-MW-15R	Depth to Water Detail	5/2/2022 11:30	44.81	ft
GN-AP-MW-15R	Oxidation Reduction Potention	5/2/2022 11:30	-18.63	mv
GN-AP-MW-15R	pH	5/2/2022 11:30	7.48	SU
GN-AP-MW-15R	Temperature	5/2/2022 11:30	20.26	C
GN-AP-MW-15R	Turbidity	5/2/2022 11:30	0.86	NTU
GN-AP-MW-15R	Conductivity	5/2/2022 11:35	884.38	uS/cm
GN-AP-MW-15R	DO	5/2/2022 11:35	0.84	mg/L
GN-AP-MW-15R	Depth to Water Detail	5/2/2022 11:35	45.17	ft
GN-AP-MW-15R	Oxidation Reduction Potention	5/2/2022 11:35	-19.03	mv
GN-AP-MW-15R	pH	5/2/2022 11:35	7.48	SU
GN-AP-MW-15R	Temperature	5/2/2022 11:35	20.17	C
GN-AP-MW-15R	Turbidity	5/2/2022 11:35	0.89	NTU
GN-AP-MW-15R	Conductivity	5/2/2022 11:40	884.1	uS/cm
GN-AP-MW-15R	DO	5/2/2022 11:40	0.85	mg/L
GN-AP-MW-15R	Depth to Water Detail	5/2/2022 11:40	45.24	ft
GN-AP-MW-15R	Oxidation Reduction Potention	5/2/2022 11:40	-19.34	mv
GN-AP-MW-15R	pH	5/2/2022 11:40	7.48	SU
GN-AP-MW-15R	Temperature	5/2/2022 11:40	20.22	C
GN-AP-MW-15R	Turbidity	5/2/2022 11:40	0.92	NTU
GN-AP-MW-15R	Conductivity	5/2/2022 11:45	883.92	uS/cm
GN-AP-MW-15R	DO	5/2/2022 11:45	0.8	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-15R	Depth to Water Detail	5/2/2022 11:45	45.3	ft
GN-AP-MW-15R	Oxidation Reduction Potention	5/2/2022 11:45	-20.15	mv
GN-AP-MW-15R	pH	5/2/2022 11:45	7.49	SU
GN-AP-MW-15R	Sulfide	5/2/2022 11:45	0	mg/L
GN-AP-MW-15R	Temperature	5/2/2022 11:45	20.19	C
GN-AP-MW-15R	Turbidity	5/2/2022 11:45	0.84	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-30H	Conductivity	5/2/2022 9:50	918.5	uS/cm
GN-AP-MW-30H	DO	5/2/2022 9:50	0.62	mg/L
GN-AP-MW-30H	Depth to Water Detail	5/2/2022 9:50	43.8	ft
GN-AP-MW-30H	Oxidation Reduction Potention	5/2/2022 9:50	-62.63	mv
GN-AP-MW-30H	pH	5/2/2022 9:50	7.23	SU
GN-AP-MW-30H	Temperature	5/2/2022 9:50	19.75	C
GN-AP-MW-30H	Turbidity	5/2/2022 9:50	1.5	NTU
GN-AP-MW-30H	Conductivity	5/2/2022 9:55	846.22	uS/cm
GN-AP-MW-30H	DO	5/2/2022 9:55	0.54	mg/L
GN-AP-MW-30H	Depth to Water Detail	5/2/2022 9:55	44.38	ft
GN-AP-MW-30H	Oxidation Reduction Potention	5/2/2022 9:55		mv
GN-AP-MW-30H	pH	5/2/2022 9:55		SU
GN-AP-MW-30H	Temperature	5/2/2022 9:55	19.77	C
GN-AP-MW-30H	Turbidity	5/2/2022 9:55	1.47	NTU
GN-AP-MW-30H	Conductivity	5/2/2022 10:00	790.13	uS/cm
GN-AP-MW-30H	DO	5/2/2022 10:00	0.54	mg/L
GN-AP-MW-30H	Depth to Water Detail	5/2/2022 10:00	44.57	ft
GN-AP-MW-30H	Oxidation Reduction Potention	5/2/2022 10:00	-72.78	mv
GN-AP-MW-30H	pH	5/2/2022 10:00	7.19	SU
GN-AP-MW-30H	Temperature	5/2/2022 10:00	19.75	C
GN-AP-MW-30H	Turbidity	5/2/2022 10:00	1.45	NTU
GN-AP-MW-30H	Conductivity	5/2/2022 10:05	752.49	uS/cm
GN-AP-MW-30H	DO	5/2/2022 10:05	0.51	mg/L
GN-AP-MW-30H	Depth to Water Detail	5/2/2022 10:05	44.67	ft
GN-AP-MW-30H	Oxidation Reduction Potention	5/2/2022 10:05	-69.33	mv
GN-AP-MW-30H	pH	5/2/2022 10:05	7.17	SU
GN-AP-MW-30H	Temperature	5/2/2022 10:05	19.79	C
GN-AP-MW-30H	Turbidity	5/2/2022 10:05	1.58	NTU
GN-AP-MW-30H	Conductivity	5/2/2022 10:10	732.82	uS/cm
GN-AP-MW-30H	DO	5/2/2022 10:10	0.48	mg/L
GN-AP-MW-30H	Depth to Water Detail	5/2/2022 10:10	44.71	ft
GN-AP-MW-30H	Oxidation Reduction Potention	5/2/2022 10:10	-65.52	mv
GN-AP-MW-30H	pH	5/2/2022 10:10	7.15	SU
GN-AP-MW-30H	Temperature	5/2/2022 10:10	19.78	C
GN-AP-MW-30H	Turbidity	5/2/2022 10:10	1.32	NTU
GN-AP-MW-30H	Conductivity	5/2/2022 10:15	723.9	uS/cm
GN-AP-MW-30H	DO	5/2/2022 10:15	0.46	mg/L
GN-AP-MW-30H	Depth to Water Detail	5/2/2022 10:15	44.73	ft
GN-AP-MW-30H	Oxidation Reduction Potention	5/2/2022 10:15	-62.83	mv
GN-AP-MW-30H	pH	5/2/2022 10:15	7.14	SU
GN-AP-MW-30H	Sulfide	5/2/2022 10:15	0	mg/L
GN-AP-MW-30H	Temperature	5/2/2022 10:15	19.77	C
GN-AP-MW-30H	Turbidity	5/2/2022 10:15	1.16	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-8	Conductivity	5/2/2022 10:03	501.13	uS/cm
GN-AP-MW-8	DO	5/2/2022 10:03	3.07	mg/L
GN-AP-MW-8	Depth to Water Detail	5/2/2022 10:03	16.21	ft
GN-AP-MW-8	Oxidation Reduction Potention	5/2/2022 10:03	-94.12	mv
GN-AP-MW-8	pH	5/2/2022 10:03	7.45	SU
GN-AP-MW-8	Temperature	5/2/2022 10:03	19.51	C
GN-AP-MW-8	Turbidity	5/2/2022 10:03	1.46	NTU
GN-AP-MW-8	Conductivity	5/2/2022 10:14	493.2	uS/cm
GN-AP-MW-8	DO	5/2/2022 10:14	2.92	mg/L
GN-AP-MW-8	Depth to Water Detail	5/2/2022 10:14	18.11	ft
GN-AP-MW-8	Oxidation Reduction Potention	5/2/2022 10:14	-92.8	mv
GN-AP-MW-8	pH	5/2/2022 10:14	7.44	SU
GN-AP-MW-8	Sulfide	5/2/2022 10:14	1	mg/L
GN-AP-MW-8	Temperature	5/2/2022 10:14	19.63	C
GN-AP-MW-8	Turbidity	5/2/2022 10:14	1.61	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-9	Conductivity	5/2/2022 11:51	410.62	uS/cm
GN-AP-MW-9	DO	5/2/2022 11:51	3.19	mg/L
GN-AP-MW-9	Depth to Water Detail	5/2/2022 11:51	8.79	ft
GN-AP-MW-9	Oxidation Reduction Potention	5/2/2022 11:51	-112.19	mv
GN-AP-MW-9	pH	5/2/2022 11:51	7.72	SU
GN-AP-MW-9	Temperature	5/2/2022 11:51	21.11	C
GN-AP-MW-9	Turbidity	5/2/2022 11:51	1.84	NTU
GN-AP-MW-9	Conductivity	5/2/2022 12:07	402.93	uS/cm
GN-AP-MW-9	DO	5/2/2022 12:07	3.18	mg/L
GN-AP-MW-9	Depth to Water Detail	5/2/2022 12:07	10.66	ft
GN-AP-MW-9	Oxidation Reduction Potention	5/2/2022 12:07	-106.83	mv
GN-AP-MW-9	pH	5/2/2022 12:07	7.7	SU
GN-AP-MW-9	Sulfide	5/2/2022 12:07	0	mg/L
GN-AP-MW-9	Temperature	5/2/2022 12:07	21.2	C
GN-AP-MW-9	Turbidity	5/2/2022 12:07	1.36	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-10	Conductivity	5/2/2022 13:50	343.53	uS/cm
GN-AP-MW-10	DO	5/2/2022 13:50	1.58	mg/L
GN-AP-MW-10	Depth to Water Detail	5/2/2022 13:50	6.93	ft
GN-AP-MW-10	Oxidation Reduction Potention	5/2/2022 13:50	-63.58	mv
GN-AP-MW-10	pH	5/2/2022 13:50	7.58	SU
GN-AP-MW-10	Temperature	5/2/2022 13:50	21.59	C
GN-AP-MW-10	Turbidity	5/2/2022 13:50	1.18	NTU
GN-AP-MW-10	Conductivity	5/2/2022 13:55	340.67	uS/cm
GN-AP-MW-10	DO	5/2/2022 13:55	1.71	mg/L
GN-AP-MW-10	Depth to Water Detail	5/2/2022 13:55	7.16	ft
GN-AP-MW-10	Oxidation Reduction Potention	5/2/2022 13:55	-51.95	mv
GN-AP-MW-10	pH	5/2/2022 13:55	7.43	SU
GN-AP-MW-10	Temperature	5/2/2022 13:55	21.44	C
GN-AP-MW-10	Turbidity	5/2/2022 13:55	1.23	NTU
GN-AP-MW-10	Conductivity	5/2/2022 14:00	342.39	uS/cm
GN-AP-MW-10	DO	5/2/2022 14:00	1.64	mg/L
GN-AP-MW-10	Depth to Water Detail	5/2/2022 14:00	7.22	ft
GN-AP-MW-10	Oxidation Reduction Potention	5/2/2022 14:00	-36.88	mv
GN-AP-MW-10	pH	5/2/2022 14:00	7.25	SU
GN-AP-MW-10	Temperature	5/2/2022 14:00	21.25	C
GN-AP-MW-10	Turbidity	5/2/2022 14:00	1.59	NTU
GN-AP-MW-10	Conductivity	5/2/2022 14:05	341.58	uS/cm
GN-AP-MW-10	DO	5/2/2022 14:05	1.66	mg/L
GN-AP-MW-10	Depth to Water Detail	5/2/2022 14:05	7.28	ft
GN-AP-MW-10	Oxidation Reduction Potention	5/2/2022 14:05	-19.05	mv
GN-AP-MW-10	pH	5/2/2022 14:05	7.15	SU
GN-AP-MW-10	Temperature	5/2/2022 14:05	21.31	C
GN-AP-MW-10	Turbidity	5/2/2022 14:05	1.21	NTU
GN-AP-MW-10	Conductivity	5/2/2022 14:10	344.1	uS/cm
GN-AP-MW-10	DO	5/2/2022 14:10	1.69	mg/L
GN-AP-MW-10	Depth to Water Detail	5/2/2022 14:10	7.29	ft
GN-AP-MW-10	Oxidation Reduction Potention	5/2/2022 14:10	-5.43	mv
GN-AP-MW-10	pH	5/2/2022 14:10	7.12	SU
GN-AP-MW-10	Sulfide	5/2/2022 14:10	0	mg/L
GN-AP-MW-10	Temperature	5/2/2022 14:10	21.48	C
GN-AP-MW-10	Turbidity	5/2/2022 14:10	1.27	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-11	Conductivity	5/2/2022 15:03	374.2	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:03	2.42	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:03	8.18	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:03	48.02	mv
GN-AP-MW-11	pH	5/2/2022 15:03	7.59	SU
GN-AP-MW-11	Temperature	5/2/2022 15:03	20.85	C
GN-AP-MW-11	Turbidity	5/2/2022 15:03	1.15	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:08	372.37	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:08	2.2	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:08	9.84	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:08	68.17	mv
GN-AP-MW-11	pH	5/2/2022 15:08	7.37	SU
GN-AP-MW-11	Temperature	5/2/2022 15:08	20.73	C
GN-AP-MW-11	Turbidity	5/2/2022 15:08	1.41	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:13	376.88	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:13	3.34	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:13	11.01	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:13	83.85	mv
GN-AP-MW-11	pH	5/2/2022 15:13	7.28	SU
GN-AP-MW-11	Temperature	5/2/2022 15:13	20.78	C
GN-AP-MW-11	Turbidity	5/2/2022 15:13	1.93	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:18	383.4	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:18	3.99	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:18	11.79	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:18	95.69	mv
GN-AP-MW-11	pH	5/2/2022 15:18	7.25	SU
GN-AP-MW-11	Temperature	5/2/2022 15:18	20.95	C
GN-AP-MW-11	Turbidity	5/2/2022 15:18	2.29	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:23	379.13	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:23	4.36	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:23	12.46	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:23	103.48	mv
GN-AP-MW-11	pH	5/2/2022 15:23	7.24	SU
GN-AP-MW-11	Temperature	5/2/2022 15:23	20.93	C
GN-AP-MW-11	Turbidity	5/2/2022 15:23	1.82	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:28	0.06	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:28	8.63	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:28	12.85	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:28	116.84	mv
GN-AP-MW-11	pH	5/2/2022 15:28	7.27	SU
GN-AP-MW-11	Temperature	5/2/2022 15:28	20.43	C
GN-AP-MW-11	Turbidity	5/2/2022 15:28	2.32	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:33	208.54	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:33	9.13	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:33	18.78	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:33	112.96	mv
GN-AP-MW-11	pH	5/2/2022 15:33	7.5	SU
GN-AP-MW-11	Temperature	5/2/2022 15:33	20.07	C
GN-AP-MW-11	Turbidity	5/2/2022 15:33	2.45	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:38	370.23	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:38	9.87	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:38	18.36	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:38	125.57	mv
GN-AP-MW-11	pH	5/2/2022 15:38	7.31	SU
GN-AP-MW-11	Temperature	5/2/2022 15:38	20.47	C
GN-AP-MW-11	Turbidity	5/2/2022 15:38	3.38	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:43	374.5	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:43	5.95	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:43	18.36	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:43	129.05	mv
GN-AP-MW-11	pH	5/2/2022 15:43	7.16	SU
GN-AP-MW-11	Temperature	5/2/2022 15:43	20.64	C
GN-AP-MW-11	Turbidity	5/2/2022 15:43	1.78	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:48	373.25	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:48	3.63	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:48	18.36	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:48	127.63	mv
GN-AP-MW-11	pH	5/2/2022 15:48	7.16	SU
GN-AP-MW-11	Temperature	5/2/2022 15:48	20.52	C
GN-AP-MW-11	Turbidity	5/2/2022 15:48	1.25	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:53	376.04	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:53	3.15	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:53	18.36	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:53	127.44	mv
GN-AP-MW-11	pH	5/2/2022 15:53	7.16	SU
GN-AP-MW-11	Temperature	5/2/2022 15:53	20.71	C
GN-AP-MW-11	Turbidity	5/2/2022 15:53	1.32	NTU
GN-AP-MW-11	Conductivity	5/2/2022 15:58	375.55	uS/cm
GN-AP-MW-11	DO	5/2/2022 15:58	3.07	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 15:58	18.36	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 15:58	127.6	mv
GN-AP-MW-11	pH	5/2/2022 15:58	7.16	SU
GN-AP-MW-11	Temperature	5/2/2022 15:58	20.82	C
GN-AP-MW-11	Turbidity	5/2/2022 15:58	1.54	NTU
GN-AP-MW-11	Conductivity	5/2/2022 16:03	375.04	uS/cm
GN-AP-MW-11	DO	5/2/2022 16:03	3.04	mg/L
GN-AP-MW-11	Depth to Water Detail	5/2/2022 16:03	18.36	ft
GN-AP-MW-11	Oxidation Reduction Potention	5/2/2022 16:03	128.99	mv

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-11	pH	5/2/2022 16:03	7.16	SU
GN-AP-MW-11	Sulfide	5/2/2022 16:03	0	mg/L
GN-AP-MW-11	Temperature	5/2/2022 16:03	20.66	C
GN-AP-MW-11	Turbidity	5/2/2022 16:03	1.61	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-7	Conductivity	5/3/2022 9:38	546.96	uS/cm
GN-AP-MW-7	DO	5/3/2022 9:38	0.75	mg/L
GN-AP-MW-7	Depth to Water Detail	5/3/2022 9:38	6.11	ft
GN-AP-MW-7	Oxidation Reduction Potention	5/3/2022 9:38	87.58	mv
GN-AP-MW-7	pH	5/3/2022 9:38	7.53	SU
GN-AP-MW-7	Temperature	5/3/2022 9:38	18.74	C
GN-AP-MW-7	Turbidity	5/3/2022 9:38	1.88	NTU
GN-AP-MW-7	Conductivity	5/3/2022 9:43	529.1	uS/cm
GN-AP-MW-7	DO	5/3/2022 9:43	0.71	mg/L
GN-AP-MW-7	Depth to Water Detail	5/3/2022 9:43	6.16	ft
GN-AP-MW-7	Oxidation Reduction Potention	5/3/2022 9:43	92.8	mv
GN-AP-MW-7	pH	5/3/2022 9:43	7.55	SU
GN-AP-MW-7	Temperature	5/3/2022 9:43	18.81	C
GN-AP-MW-7	Turbidity	5/3/2022 9:43	1.49	NTU
GN-AP-MW-7	Conductivity	5/3/2022 9:48	522.81	uS/cm
GN-AP-MW-7	DO	5/3/2022 9:48	0.69	mg/L
GN-AP-MW-7	Depth to Water Detail	5/3/2022 9:48	6.21	ft
GN-AP-MW-7	Oxidation Reduction Potention	5/3/2022 9:48	96.61	mv
GN-AP-MW-7	pH	5/3/2022 9:48	7.55	SU
GN-AP-MW-7	Temperature	5/3/2022 9:48	18.93	C
GN-AP-MW-7	Turbidity	5/3/2022 9:48	1.3	NTU
GN-AP-MW-7	Conductivity	5/3/2022 9:53	541.65	uS/cm
GN-AP-MW-7	DO	5/3/2022 9:53	0.67	mg/L
GN-AP-MW-7	Depth to Water Detail	5/3/2022 9:53	6.21	ft
GN-AP-MW-7	Oxidation Reduction Potention	5/3/2022 9:53	100.46	mv
GN-AP-MW-7	pH	5/3/2022 9:53	7.53	SU
GN-AP-MW-7	Sulfide	5/3/2022 9:53	0	mg/L
GN-AP-MW-7	Temperature	5/3/2022 9:53	18.8	C
GN-AP-MW-7	Turbidity	5/3/2022 9:53	1.52	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-6	Conductivity	5/3/2022 10:27	666.1	uS/cm
GN-AP-MW-6	DO	5/3/2022 10:27	3.86	mg/L
GN-AP-MW-6	Depth to Water Detail	5/3/2022 10:27	14.09	ft
GN-AP-MW-6	Oxidation Reduction Potention	5/3/2022 10:27	59.01	mv
GN-AP-MW-6	pH	5/3/2022 10:27	7.76	SU
GN-AP-MW-6	Temperature	5/3/2022 10:27	19.31	C
GN-AP-MW-6	Turbidity	5/3/2022 10:27	1.3	NTU
GN-AP-MW-6	Conductivity	5/3/2022 10:32	648.86	uS/cm
GN-AP-MW-6	DO	5/3/2022 10:32	2.02	mg/L
GN-AP-MW-6	Depth to Water Detail	5/3/2022 10:32	14.09	ft
GN-AP-MW-6	Oxidation Reduction Potention	5/3/2022 10:32	66.56	mv
GN-AP-MW-6	pH	5/3/2022 10:32	7.68	SU
GN-AP-MW-6	Temperature	5/3/2022 10:32	19.55	C
GN-AP-MW-6	Turbidity	5/3/2022 10:32	1.55	NTU
GN-AP-MW-6	Conductivity	5/3/2022 10:37	641.67	uS/cm
GN-AP-MW-6	DO	5/3/2022 10:37	1.39	mg/L
GN-AP-MW-6	Depth to Water Detail	5/3/2022 10:37	14.09	ft
GN-AP-MW-6	Oxidation Reduction Potention	5/3/2022 10:37	73.89	mv
GN-AP-MW-6	pH	5/3/2022 10:37	7.6	SU
GN-AP-MW-6	Temperature	5/3/2022 10:37	19.54	C
GN-AP-MW-6	Turbidity	5/3/2022 10:37	2.09	NTU
GN-AP-MW-6	Conductivity	5/3/2022 10:42	640.49	uS/cm
GN-AP-MW-6	DO	5/3/2022 10:42	1.09	mg/L
GN-AP-MW-6	Depth to Water Detail	5/3/2022 10:42	14.09	ft
GN-AP-MW-6	Oxidation Reduction Potention	5/3/2022 10:42	76.67	mv
GN-AP-MW-6	pH	5/3/2022 10:42	7.61	SU
GN-AP-MW-6	Temperature	5/3/2022 10:42	19.38	C
GN-AP-MW-6	Turbidity	5/3/2022 10:42	2.37	NTU
GN-AP-MW-6	Conductivity	5/3/2022 10:47	638.76	uS/cm
GN-AP-MW-6	DO	5/3/2022 10:47	0.95	mg/L
GN-AP-MW-6	Depth to Water Detail	5/3/2022 10:47	14.09	ft
GN-AP-MW-6	Oxidation Reduction Potention	5/3/2022 10:47	78.29	mv
GN-AP-MW-6	pH	5/3/2022 10:47	7.62	SU
GN-AP-MW-6	Temperature	5/3/2022 10:47	19.45	C
GN-AP-MW-6	Turbidity	5/3/2022 10:47	1.73	NTU
GN-AP-MW-6	Conductivity	5/3/2022 10:52	637.5	uS/cm
GN-AP-MW-6	DO	5/3/2022 10:52	0.87	mg/L
GN-AP-MW-6	Depth to Water Detail	5/3/2022 10:52	14.09	ft
GN-AP-MW-6	Oxidation Reduction Potention	5/3/2022 10:52	79.79	mv
GN-AP-MW-6	pH	5/3/2022 10:52	7.62	SU
GN-AP-MW-6	Temperature	5/3/2022 10:52	19.66	C
GN-AP-MW-6	Turbidity	5/3/2022 10:52	1.74	NTU
GN-AP-MW-6	Conductivity	5/3/2022 10:57	635.65	uS/cm
GN-AP-MW-6	DO	5/3/2022 10:57	0.89	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-6	Depth to Water Detail	5/3/2022 10:57	14.09	ft
GN-AP-MW-6	Oxidation Reduction Potention	5/3/2022 10:57	80.91	mv
GN-AP-MW-6	pH	5/3/2022 10:57	7.63	SU
GN-AP-MW-6	Sulfide	5/3/2022 10:57	0	mg/L
GN-AP-MW-6	Temperature	5/3/2022 10:57	19.74	C
GN-AP-MW-6	Turbidity	5/3/2022 10:57	1.7	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-21	Conductivity	5/3/2022 11:41	664.05	uS/cm
GN-AP-MW-21	DO	5/3/2022 11:41	2.34	mg/L
GN-AP-MW-21	Depth to Water Detail	5/3/2022 11:41	17.26	ft
GN-AP-MW-21	Oxidation Reduction Potention	5/3/2022 11:41	78.09	mv
GN-AP-MW-21	pH	5/3/2022 11:41	7.55	SU
GN-AP-MW-21	Temperature	5/3/2022 11:41	19.15	C
GN-AP-MW-21	Turbidity	5/3/2022 11:41	1.41	NTU
GN-AP-MW-21	Conductivity	5/3/2022 11:46	662.41	uS/cm
GN-AP-MW-21	DO	5/3/2022 11:46	1.52	mg/L
GN-AP-MW-21	Depth to Water Detail	5/3/2022 11:46	17.56	ft
GN-AP-MW-21	Oxidation Reduction Potention	5/3/2022 11:46	-32.04	mv
GN-AP-MW-21	pH	5/3/2022 11:46	7.53	SU
GN-AP-MW-21	Temperature	5/3/2022 11:46	19.19	C
GN-AP-MW-21	Turbidity	5/3/2022 11:46	1.53	NTU
GN-AP-MW-21	Conductivity	5/3/2022 11:51	663.46	uS/cm
GN-AP-MW-21	DO	5/3/2022 11:51	0.92	mg/L
GN-AP-MW-21	Depth to Water Detail	5/3/2022 11:51	17.71	ft
GN-AP-MW-21	Oxidation Reduction Potention	5/3/2022 11:51	-79.39	mv
GN-AP-MW-21	pH	5/3/2022 11:51	7.5	SU
GN-AP-MW-21	Temperature	5/3/2022 11:51	19.26	C
GN-AP-MW-21	Turbidity	5/3/2022 11:51	1.4	NTU
GN-AP-MW-21	Conductivity	5/3/2022 11:56	662.41	uS/cm
GN-AP-MW-21	DO	5/3/2022 11:56	0.68	mg/L
GN-AP-MW-21	Depth to Water Detail	5/3/2022 11:56	17.76	ft
GN-AP-MW-21	Oxidation Reduction Potention	5/3/2022 11:56	-93.13	mv
GN-AP-MW-21	pH	5/3/2022 11:56	7.5	SU
GN-AP-MW-21	Temperature	5/3/2022 11:56	19.08	C
GN-AP-MW-21	Turbidity	5/3/2022 11:56	1.39	NTU
GN-AP-MW-21	Conductivity	5/3/2022 12:01	658.95	uS/cm
GN-AP-MW-21	DO	5/3/2022 12:01	0.54	mg/L
GN-AP-MW-21	Depth to Water Detail	5/3/2022 12:01	17.76	ft
GN-AP-MW-21	Oxidation Reduction Potention	5/3/2022 12:01	-96.65	mv
GN-AP-MW-21	pH	5/3/2022 12:01	7.49	SU
GN-AP-MW-21	Temperature	5/3/2022 12:01	19.16	C
GN-AP-MW-21	Turbidity	5/3/2022 12:01	1.56	NTU
GN-AP-MW-21	Conductivity	5/3/2022 12:06	655.26	uS/cm
GN-AP-MW-21	DO	5/3/2022 12:06	0.56	mg/L
GN-AP-MW-21	Depth to Water Detail	5/3/2022 12:06	17.76	ft
GN-AP-MW-21	Oxidation Reduction Potention	5/3/2022 12:06	-95.12	mv
GN-AP-MW-21	pH	5/3/2022 12:06	7.48	SU
GN-AP-MW-21	Sulfide	5/3/2022 12:06	0	mg/L
GN-AP-MW-21	Temperature	5/3/2022 12:06	19.13	C
GN-AP-MW-21	Turbidity	5/3/2022 12:06	1.17	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-22	Conductivity	5/3/2022 12:38	488.97	uS/cm
GN-AP-MW-22	DO	5/3/2022 12:38	0.55	mg/L
GN-AP-MW-22	Depth to Water Detail	5/3/2022 12:38	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 12:38	28.8	mv
GN-AP-MW-22	pH	5/3/2022 12:38	7.33	SU
GN-AP-MW-22	Temperature	5/3/2022 12:38	19.41	C
GN-AP-MW-22	Turbidity	5/3/2022 12:38	1.7	NTU
GN-AP-MW-22	Conductivity	5/3/2022 12:43	525.06	uS/cm
GN-AP-MW-22	DO	5/3/2022 12:43	0.44	mg/L
GN-AP-MW-22	Depth to Water Detail	5/3/2022 12:43	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 12:43	36.58	mv
GN-AP-MW-22	pH	5/3/2022 12:43	7.32	SU
GN-AP-MW-22	Temperature	5/3/2022 12:43	19.34	C
GN-AP-MW-22	Turbidity	5/3/2022 12:43	1.16	NTU
GN-AP-MW-22	Conductivity	5/3/2022 12:48	463.43	uS/cm
GN-AP-MW-22	DO	5/3/2022 12:48	0.41	mg/L
GN-AP-MW-22	Depth to Water Detail	5/3/2022 12:48	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 12:48	45.64	mv
GN-AP-MW-22	pH	5/3/2022 12:48	7.25	SU
GN-AP-MW-22	Temperature	5/3/2022 12:48	19.5	C
GN-AP-MW-22	Turbidity	5/3/2022 12:48	1.16	NTU
GN-AP-MW-22	Conductivity	5/3/2022 12:53	498.23	uS/cm
GN-AP-MW-22	DO	5/3/2022 12:53	0.42	mg/L
GN-AP-MW-22	Depth to Water Detail	5/3/2022 12:53	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 12:53	52.26	mv
GN-AP-MW-22	pH	5/3/2022 12:53	7.21	SU
GN-AP-MW-22	Temperature	5/3/2022 12:53	19.47	C
GN-AP-MW-22	Turbidity	5/3/2022 12:53	1.24	NTU
GN-AP-MW-22	Conductivity	5/3/2022 12:58	483.82	uS/cm
GN-AP-MW-22	DO	5/3/2022 12:58	0.39	mg/L
GN-AP-MW-22	Depth to Water Detail	5/3/2022 12:58	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 12:58	56.75	mv
GN-AP-MW-22	pH	5/3/2022 12:58	7.2	SU
GN-AP-MW-22	Temperature	5/3/2022 12:58	19.42	C
GN-AP-MW-22	Turbidity	5/3/2022 12:58	1.38	NTU
GN-AP-MW-22	Conductivity	5/3/2022 13:03	444.61	uS/cm
GN-AP-MW-22	DO	5/3/2022 13:03	0.35	mg/L
GN-AP-MW-22	Depth to Water Detail	5/3/2022 13:03	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 13:03	60.04	mv
GN-AP-MW-22	pH	5/3/2022 13:03	7.21	SU
GN-AP-MW-22	Temperature	5/3/2022 13:03	19.58	C
GN-AP-MW-22	Turbidity	5/3/2022 13:03	1.15	NTU
GN-AP-MW-22	Conductivity	5/3/2022 13:08	539.84	uS/cm
GN-AP-MW-22	DO	5/3/2022 13:08	0.18	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-22	Depth to Water Detail	5/3/2022 13:08	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 13:08	61.98	mv
GN-AP-MW-22	pH	5/3/2022 13:08	7.21	SU
GN-AP-MW-22	Temperature	5/3/2022 13:08	19.48	C
GN-AP-MW-22	Turbidity	5/3/2022 13:08	1.43	NTU
GN-AP-MW-22	Conductivity	5/3/2022 13:13	541.11	uS/cm
GN-AP-MW-22	DO	5/3/2022 13:13	0.18	mg/L
GN-AP-MW-22	Depth to Water Detail	5/3/2022 13:13	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 13:13	65.39	mv
GN-AP-MW-22	pH	5/3/2022 13:13	7.19	SU
GN-AP-MW-22	Temperature	5/3/2022 13:13	19.54	C
GN-AP-MW-22	Turbidity	5/3/2022 13:13	1.36	NTU
GN-AP-MW-22	Conductivity	5/3/2022 13:18	538.69	uS/cm
GN-AP-MW-22	DO	5/3/2022 13:18	0.18	mg/L
GN-AP-MW-22	Depth to Water Detail	5/3/2022 13:18	13.13	ft
GN-AP-MW-22	Oxidation Reduction Potention	5/3/2022 13:18	66.7	mv
GN-AP-MW-22	pH	5/3/2022 13:18	7.21	SU
GN-AP-MW-22	Sulfide	5/3/2022 13:18	0	mg/L
GN-AP-MW-22	Temperature	5/3/2022 13:18	19.33	C
GN-AP-MW-22	Turbidity	5/3/2022 13:18	1.17	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-12	Conductivity	5/3/2022 9:04	474.96	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:04	0.34	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:04	5.29	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:04	-75.92	mv
GN-AP-MW-12	pH	5/3/2022 9:04	7.32	SU
GN-AP-MW-12	Temperature	5/3/2022 9:04	20.14	C
GN-AP-MW-12	Turbidity	5/3/2022 9:04	1.16	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:09	473.58	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:09	0.28	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:09	7.45	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:09	-87.17	mv
GN-AP-MW-12	pH	5/3/2022 9:09	7.32	SU
GN-AP-MW-12	Temperature	5/3/2022 9:09	20.17	C
GN-AP-MW-12	Turbidity	5/3/2022 9:09	1.29	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:14	465.82	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:14	0.26	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:14	10.79	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:14	-96.37	mv
GN-AP-MW-12	pH	5/3/2022 9:14	7.34	SU
GN-AP-MW-12	Temperature	5/3/2022 9:14	20.18	C
GN-AP-MW-12	Turbidity	5/3/2022 9:14	1.35	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:19	482.11	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:19	0.25	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:19	12.45	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:19	-100.44	mv
GN-AP-MW-12	pH	5/3/2022 9:19	7.34	SU
GN-AP-MW-12	Temperature	5/3/2022 9:19	20.17	C
GN-AP-MW-12	Turbidity	5/3/2022 9:19	1.07	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:24	472.66	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:24	0.24	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:24	14.48	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:24	-103.64	mv
GN-AP-MW-12	pH	5/3/2022 9:24	7.34	SU
GN-AP-MW-12	Temperature	5/3/2022 9:24	20.24	C
GN-AP-MW-12	Turbidity	5/3/2022 9:24	1.29	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:29	466.16	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:29	0.24	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:29	16.6	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:29	-106.22	mv
GN-AP-MW-12	pH	5/3/2022 9:29	7.35	SU
GN-AP-MW-12	Temperature	5/3/2022 9:29	20.24	C
GN-AP-MW-12	Turbidity	5/3/2022 9:29	1.18	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:34	466.71	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:34	0.23	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:34	18.5	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:34	-108.46	mv
GN-AP-MW-12	pH	5/3/2022 9:34	7.36	SU
GN-AP-MW-12	Temperature	5/3/2022 9:34	20.29	C
GN-AP-MW-12	Turbidity	5/3/2022 9:34	1.39	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:39	461.67	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:39	0.23	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:39	20.5	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:39	-110.29	mv
GN-AP-MW-12	pH	5/3/2022 9:39	7.37	SU
GN-AP-MW-12	Temperature	5/3/2022 9:39	20.31	C
GN-AP-MW-12	Turbidity	5/3/2022 9:39	1.51	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:44	475.49	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:44	0.31	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:44	20.82	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:44	-108.71	mv
GN-AP-MW-12	pH	5/3/2022 9:44	7.36	SU
GN-AP-MW-12	Temperature	5/3/2022 9:44	20.76	C
GN-AP-MW-12	Turbidity	5/3/2022 9:44	1.84	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:49	459.99	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:49	0.33	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:49	21.12	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:49	-107.56	mv
GN-AP-MW-12	pH	5/3/2022 9:49	7.37	SU
GN-AP-MW-12	Temperature	5/3/2022 9:49	20.93	C
GN-AP-MW-12	Turbidity	5/3/2022 9:49	2.22	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:54	457.26	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:54	0.33	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:54	21.35	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:54	-107.38	mv
GN-AP-MW-12	pH	5/3/2022 9:54	7.38	SU
GN-AP-MW-12	Temperature	5/3/2022 9:54	20.76	C
GN-AP-MW-12	Turbidity	5/3/2022 9:54	1.85	NTU
GN-AP-MW-12	Conductivity	5/3/2022 9:59	457.91	uS/cm
GN-AP-MW-12	DO	5/3/2022 9:59	0.32	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 9:59	21.69	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 9:59	-106.84	mv
GN-AP-MW-12	pH	5/3/2022 9:59	7.39	SU
GN-AP-MW-12	Temperature	5/3/2022 9:59	20.92	C
GN-AP-MW-12	Turbidity	5/3/2022 9:59	1.3	NTU
GN-AP-MW-12	Conductivity	5/3/2022 10:04	457.51	uS/cm
GN-AP-MW-12	DO	5/3/2022 10:04	0.43	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 10:04	21.65	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 10:04	-103.53	mv

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-12	pH	5/3/2022 10:04	7.4	SU
GN-AP-MW-12	Temperature	5/3/2022 10:04	21.23	C
GN-AP-MW-12	Turbidity	5/3/2022 10:04	1.85	NTU
GN-AP-MW-12	Conductivity	5/3/2022 10:09	463.37	uS/cm
GN-AP-MW-12	DO	5/3/2022 10:09	0.45	mg/L
GN-AP-MW-12	Depth to Water Detail	5/3/2022 10:09	21.35	ft
GN-AP-MW-12	Oxidation Reduction Potention	5/3/2022 10:09	-99.21	mv
GN-AP-MW-12	pH	5/3/2022 10:09	7.39	SU
GN-AP-MW-12	Sulfide	5/3/2022 10:09	0	mg/L
GN-AP-MW-12	Temperature	5/3/2022 10:09	21.09	C
GN-AP-MW-12	Turbidity	5/3/2022 10:09	1.2	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-13	Conductivity	5/2/2022 14:29	382.96	uS/cm
GN-AP-MW-13	DO	5/2/2022 14:29	0.33	mg/L
GN-AP-MW-13	Depth to Water Detail	5/2/2022 14:29	6.45	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 14:29	-104.69	mv
GN-AP-MW-13	pH	5/2/2022 14:29	7.48	SU
GN-AP-MW-13	Temperature	5/2/2022 14:29	20.43	C
GN-AP-MW-13	Turbidity	5/2/2022 14:29	2.91	NTU
GN-AP-MW-13	Conductivity	5/2/2022 14:34	382.33	uS/cm
GN-AP-MW-13	DO	5/2/2022 14:34	0.29	mg/L
GN-AP-MW-13	Depth to Water Detail	5/2/2022 14:34	8.55	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 14:34	-100.83	mv
GN-AP-MW-13	pH	5/2/2022 14:34	7.49	SU
GN-AP-MW-13	Temperature	5/2/2022 14:34	20.11	C
GN-AP-MW-13	Turbidity	5/2/2022 14:34	1.98	NTU
GN-AP-MW-13	Conductivity	5/2/2022 14:39	382.9	uS/cm
GN-AP-MW-13	DO	5/2/2022 14:39	0.27	mg/L
GN-AP-MW-13	Depth to Water Detail	5/2/2022 14:39	10.65	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 14:39	-99.7	mv
GN-AP-MW-13	pH	5/2/2022 14:39	7.47	SU
GN-AP-MW-13	Temperature	5/2/2022 14:39	20.04	C
GN-AP-MW-13	Turbidity	5/2/2022 14:39	1.85	NTU
GN-AP-MW-13	Conductivity	5/2/2022 14:44	382.78	uS/cm
GN-AP-MW-13	DO	5/2/2022 14:44	0.26	mg/L
GN-AP-MW-13	Depth to Water Detail	5/2/2022 14:44	12.3	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 14:44	-102.29	mv
GN-AP-MW-13	pH	5/2/2022 14:44	7.47	SU
GN-AP-MW-13	Temperature	5/2/2022 14:44	20	C
GN-AP-MW-13	Turbidity	5/2/2022 14:44	2.02	NTU
GN-AP-MW-13	Conductivity	5/2/2022 14:49	380.93	uS/cm
GN-AP-MW-13	DO	5/2/2022 14:49	0.26	mg/L
GN-AP-MW-13	Depth to Water Detail	5/2/2022 14:49	13.5	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 14:49	-106.77	mv
GN-AP-MW-13	pH	5/2/2022 14:49	7.47	SU
GN-AP-MW-13	Temperature	5/2/2022 14:49	19.95	C
GN-AP-MW-13	Turbidity	5/2/2022 14:49	2.15	NTU
GN-AP-MW-13	Conductivity	5/2/2022 14:54	380.07	uS/cm
GN-AP-MW-13	DO	5/2/2022 14:54	0.26	mg/L
GN-AP-MW-13	Depth to Water Detail	5/2/2022 14:54	14.52	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 14:54	-109.66	mv
GN-AP-MW-13	pH	5/2/2022 14:54	7.48	SU
GN-AP-MW-13	Temperature	5/2/2022 14:54	19.95	C
GN-AP-MW-13	Turbidity	5/2/2022 14:54	2.12	NTU
GN-AP-MW-13	Conductivity	5/2/2022 14:59	379.27	uS/cm
GN-AP-MW-13	DO	5/2/2022 14:59	0.26	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-13	Depth to Water Detail	5/2/2022 14:59	15	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 14:59	-111.05	mv
GN-AP-MW-13	pH	5/2/2022 14:59	7.45	SU
GN-AP-MW-13	Temperature	5/2/2022 14:59	19.99	C
GN-AP-MW-13	Turbidity	5/2/2022 14:59	2.02	NTU
GN-AP-MW-13	Conductivity	5/2/2022 15:04	386.61	uS/cm
GN-AP-MW-13	DO	5/2/2022 15:04	0.33	mg/L
GN-AP-MW-13	Depth to Water Detail	5/2/2022 15:04	14.55	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 15:04	-112.48	mv
GN-AP-MW-13	pH	5/2/2022 15:04	7.45	SU
GN-AP-MW-13	Temperature	5/2/2022 15:04	20.08	C
GN-AP-MW-13	Turbidity	5/2/2022 15:04	1.68	NTU
GN-AP-MW-13	Conductivity	5/2/2022 15:09	381.94	uS/cm
GN-AP-MW-13	DO	5/2/2022 15:09	0.33	mg/L
GN-AP-MW-13	Depth to Water Detail	5/2/2022 15:09	14.11	ft
GN-AP-MW-13	Oxidation Reduction Potention	5/2/2022 15:09	-113.57	mv
GN-AP-MW-13	pH	5/2/2022 15:09	7.46	SU
GN-AP-MW-13	Sulfide	5/2/2022 15:09	0	mg/L
GN-AP-MW-13	Temperature	5/2/2022 15:09	20.11	C
GN-AP-MW-13	Turbidity	5/2/2022 15:09	1.73	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-27	Conductivity	5/2/2022 10:05	254.48	uS/cm
GN-AP-MW-27	DO	5/2/2022 10:05	6.06	mg/L
GN-AP-MW-27	Depth to Water Detail	5/2/2022 10:05	12.75	ft
GN-AP-MW-27	Oxidation Reduction Potention	5/2/2022 10:05	94.96	mv
GN-AP-MW-27	pH	5/2/2022 10:05	6.65	SU
GN-AP-MW-27	Temperature	5/2/2022 10:05	19.5	C
GN-AP-MW-27	Turbidity	5/2/2022 10:05	4.1	NTU
GN-AP-MW-27	Conductivity	5/2/2022 10:10	262.43	uS/cm
GN-AP-MW-27	DO	5/2/2022 10:10	6.13	mg/L
GN-AP-MW-27	Depth to Water Detail	5/2/2022 10:10	12.75	ft
GN-AP-MW-27	Oxidation Reduction Potention	5/2/2022 10:10	94.47	mv
GN-AP-MW-27	pH	5/2/2022 10:10	6.7	SU
GN-AP-MW-27	Temperature	5/2/2022 10:10	19.61	C
GN-AP-MW-27	Turbidity	5/2/2022 10:10	3	NTU
GN-AP-MW-27	Conductivity	5/2/2022 10:15	268.89	uS/cm
GN-AP-MW-27	DO	5/2/2022 10:15	6.18	mg/L
GN-AP-MW-27	Depth to Water Detail	5/2/2022 10:15	12.75	ft
GN-AP-MW-27	Oxidation Reduction Potention	5/2/2022 10:15	98.52	mv
GN-AP-MW-27	pH	5/2/2022 10:15	6.73	SU
GN-AP-MW-27	Temperature	5/2/2022 10:15	19.59	C
GN-AP-MW-27	Turbidity	5/2/2022 10:15	2.46	NTU
GN-AP-MW-27	Conductivity	5/2/2022 10:20	271.43	uS/cm
GN-AP-MW-27	DO	5/2/2022 10:20	6.2	mg/L
GN-AP-MW-27	Depth to Water Detail	5/2/2022 10:20	12.75	ft
GN-AP-MW-27	Oxidation Reduction Potention	5/2/2022 10:20	98.77	mv
GN-AP-MW-27	pH	5/2/2022 10:20	6.74	SU
GN-AP-MW-27	Sulfide	5/2/2022 10:20	0	mg/L
GN-AP-MW-27	Temperature	5/2/2022 10:20	19.6	C
GN-AP-MW-27	Turbidity	5/2/2022 10:20	2.36	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-33V	Conductivity	4/26/2022 11:25	520.07	uS/cm
GN-AP-MW-33V	DO	4/26/2022 11:25	1.08	mg/L
GN-AP-MW-33V	Depth to Water Detail	4/26/2022 11:25	47.22	ft
GN-AP-MW-33V	Oxidation Reduction Potention	4/26/2022 11:25	-173.51	mv
GN-AP-MW-33V	pH	4/26/2022 11:25	7.37	SU
GN-AP-MW-33V	Temperature	4/26/2022 11:25	19.65	C
GN-AP-MW-33V	Turbidity	4/26/2022 11:25	3.25	NTU
GN-AP-MW-33V	Conductivity	4/26/2022 11:40	528.67	uS/cm
GN-AP-MW-33V	DO	4/26/2022 11:40	1.02	mg/L
GN-AP-MW-33V	Depth to Water Detail	4/26/2022 11:40	49.32	ft
GN-AP-MW-33V	Oxidation Reduction Potention	4/26/2022 11:40	-172.06	mv
GN-AP-MW-33V	pH	4/26/2022 11:40	7.42	SU
GN-AP-MW-33V	Sulfide	4/26/2022 11:40	1	mg/L
GN-AP-MW-33V	Temperature	4/26/2022 11:40	20.24	C
GN-AP-MW-33V	Turbidity	4/26/2022 11:40	2.97	NTU

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-36V	Conductivity	4/26/2022 9:32	1220.94	uS/cm
GN-AP-MW-36V	DO	4/26/2022 9:32	1.94	mg/L
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 9:32	44.18	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 9:32	-50.72	mv
GN-AP-MW-36V	pH	4/26/2022 9:32	7.71	SU
GN-AP-MW-36V	Temperature	4/26/2022 9:32	19.87	C
GN-AP-MW-36V	Turbidity	4/26/2022 9:32	3.3	NTU
GN-AP-MW-36V	Conductivity	4/26/2022 9:37	1224.87	uS/cm
GN-AP-MW-36V	DO	4/26/2022 9:37	1.66	mg/L
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 9:37	44.53	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 9:37	-76.09	mv
GN-AP-MW-36V	pH	4/26/2022 9:37	7.77	SU
GN-AP-MW-36V	Temperature	4/26/2022 9:37	19.87	C
GN-AP-MW-36V	Turbidity	4/26/2022 9:37	2.61	NTU
GN-AP-MW-36V	Conductivity	4/26/2022 9:42	1216.32	uS/cm
GN-AP-MW-36V	DO	4/26/2022 9:42	1.34	mg/L
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 9:42	44.77	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 9:42	-97.28	mv
GN-AP-MW-36V	pH	4/26/2022 9:42	7.86	SU
GN-AP-MW-36V	Temperature	4/26/2022 9:42	19.6	C
GN-AP-MW-36V	Turbidity	4/26/2022 9:42	2.71	NTU
GN-AP-MW-36V	Conductivity	4/26/2022 9:47	1213.22	uS/cm
GN-AP-MW-36V	DO	4/26/2022 9:47	1.18	mg/L
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 9:47	45.06	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 9:47	-119.61	mv
GN-AP-MW-36V	pH	4/26/2022 9:47	7.92	SU
GN-AP-MW-36V	Temperature	4/26/2022 9:47	19.59	C
GN-AP-MW-36V	Turbidity	4/26/2022 9:47	2.84	NTU
GN-AP-MW-36V	Conductivity	4/26/2022 9:52	1213.69	uS/cm
GN-AP-MW-36V	DO	4/26/2022 9:52	1.06	mg/L
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 9:52	45.27	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 9:52	-135.08	mv
GN-AP-MW-36V	pH	4/26/2022 9:52	7.97	SU
GN-AP-MW-36V	Temperature	4/26/2022 9:52	19.5	C
GN-AP-MW-36V	Turbidity	4/26/2022 9:52	1.97	NTU
GN-AP-MW-36V	Conductivity	4/26/2022 9:57	1213.92	uS/cm
GN-AP-MW-36V	DO	4/26/2022 9:57	0.99	mg/L
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 9:57	45.62	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 9:57	-147.12	mv
GN-AP-MW-36V	pH	4/26/2022 9:57	7.99	SU
GN-AP-MW-36V	Temperature	4/26/2022 9:57	19.52	C
GN-AP-MW-36V	Turbidity	4/26/2022 9:57	1.68	NTU
GN-AP-MW-36V	Conductivity	4/26/2022 10:02	1214.32	uS/cm
GN-AP-MW-36V	DO	4/26/2022 10:02	0.93	mg/L

Groundwater Field Parameters
Plant Gaston Ash Pond

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 10:02	45.8	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 10:02	-156.94	mv
GN-AP-MW-36V	pH	4/26/2022 10:02	8.01	SU
GN-AP-MW-36V	Temperature	4/26/2022 10:02	19.54	C
GN-AP-MW-36V	Turbidity	4/26/2022 10:02	2.02	NTU
GN-AP-MW-36V	Conductivity	4/26/2022 10:07	1208.29	uS/cm
GN-AP-MW-36V	DO	4/26/2022 10:07	0.89	mg/L
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 10:07	45.92	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 10:07	-165.13	mv
GN-AP-MW-36V	pH	4/26/2022 10:07	8.02	SU
GN-AP-MW-36V	Temperature	4/26/2022 10:07	19.51	C
GN-AP-MW-36V	Turbidity	4/26/2022 10:07	1.99	NTU
GN-AP-MW-36V	Conductivity	4/26/2022 10:12	1201.23	uS/cm
GN-AP-MW-36V	DO	4/26/2022 10:12	0.86	mg/L
GN-AP-MW-36V	Depth to Water Detail	4/26/2022 10:12	46.06	ft
GN-AP-MW-36V	Oxidation Reduction Potention	4/26/2022 10:12	-171.9	mv
GN-AP-MW-36V	pH	4/26/2022 10:12	8.03	SU
GN-AP-MW-36V	Sulfide	4/26/2022 10:12	3	mg/L
GN-AP-MW-36V	Temperature	4/26/2022 10:12	19.55	C
GN-AP-MW-36V	Turbidity	4/26/2022 10:12	2.12	NTU

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report

Alabama Power

Sample Group : WMWGASAP_1360

Project/Site : Gaston Ash Pond
Wilsonville, AL 35186

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Brooke Caton
tbwill@southernco.com
(205) 664-6101

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
(205) 664-6001

June 01, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between April 21, 2022 and May 04, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: Brooke Caton

Digitally signed by Brooke Caton
Date: 2022.06.02 07:43:25 -05'00'

Supervision: T Durant Maske

Digitally signed by T Durant Maske
DN: cn=T Durant Maske gn=T Durant Maske c=US United States l=US United States e=tdmaske@southernco.com
Reason: I am approving this document
Location:
Date: 2022-06-02 15:10-05:00

REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted. This document shall not be reproduced, except in full, without written consent from Alabama Power's General Test Laboratory.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Total Metals ICP

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724268	WMWGASAP_1360
BC07757	724268	WMWGASAP_1360
BC07758	724268	WMWGASAP_1360
BC07759	724268	WMWGASAP_1360
BC07760	724268	WMWGASAP_1360
BC07761	724268	WMWGASAP_1360
BC07762	724268	WMWGASAP_1360
BC07763	724268	WMWGASAP_1360
BC07764	724268	WMWGASAP_1360
BC07765	724268	WMWGASAP_1360
BC07766	724269	WMWGASAP_1360
BC07767	724269	WMWGASAP_1360
BC07768	724269	WMWGASAP_1360
BC07769	724269	WMWGASAP_1360
BC07770	724269	WMWGASAP_1360
BC07771	724269	WMWGASAP_1360
BC07772	724269	WMWGASAP_1360
BC07773	724269	WMWGASAP_1360
BC08175	724971	WMWGASAP_1360
BC08176	724971	WMWGASAP_1360
BC08177	724971	WMWGASAP_1360
BC08178	724971	WMWGASAP_1360
BC08179	724971	WMWGASAP_1360
BC08180	724971	WMWGASAP_1360
BC08181	724971	WMWGASAP_1360
BC08182	724971	WMWGASAP_1360
BC08183	724971	WMWGASAP_1360
BC08184	724971	WMWGASAP_1360
BC08185	724972	WMWGASAP_1360
BC08186	724972	WMWGASAP_1360
BC08187	724972	WMWGASAP_1360

BC08188	724972	WMWGASAP_1360
BC08189	724972	WMWGASAP_1360
BC08190	724972	WMWGASAP_1360
BC08191	724972	WMWGASAP_1360
BC08539	725426	WMWGASAP_1360
BC08540	725426	WMWGASAP_1360
BC08541	725426	WMWGASAP_1360
BC08542	725426	WMWGASAP_1360
BC08543	725426	WMWGASAP_1360
BC08544	725426	WMWGASAP_1360
BC08545	725426	WMWGASAP_1360
BC08546	725426	WMWGASAP_1360
BC08547	725426	WMWGASAP_1360
BC08548	725426	WMWGASAP_1360
BC08549	725427	WMWGASAP_1360
BC08550	725427	WMWGASAP_1360
BC08551	725427	WMWGASAP_1360
BC08552	725427	WMWGASAP_1360
BC08553	725427	WMWGASAP_1360
BC08554	725427	WMWGASAP_1360
BC08555	725427	WMWGASAP_1360
BC08556	725427	WMWGASAP_1360
BC08557	725427	WMWGASAP_1360
BC08558	725427	WMWGASAP_1360

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.

- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
  - BC07773 Calcium MS/MSD spike levels were <30% of the sample concentrations.
  - BC08184 Calcium MS/MSD spike levels were <30% of the sample concentrations.
  - BC08558 Calcium MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BC07755	Calcium, Magnesium	10.15
BC07757	Calcium	10.15
BC07758	Calcium, Iron, Magnesium	10.15
BC07759	Calcium, Iron, Magnesium	10.15
BC07760	Calcium, Magnesium	10.15
BC07761	Calcium, Sodium	10.15
BC07762	Calcium	10.15
BC07771	Magnesium	10.15
BC07772	Calcium	10.15
BC07773	Calcium	10.15
BC08175	Sodium	10.15
BC08176	Calcium	10.15
BC08177	Calcium	10.15
BC08178	Calcium, Sodium	10.15
BC08180	Calcium, Magnesium	10.15
BC08181	Calcium	10.15

BC08182	Sodium	10.15
BC08183	Calcium, Magnesium	10.15
BC08184	Calcium	10.15
BC08185	Calcium	10.15
BC08186	Calcium	10.15
BC08187	Calcium	10.15
BC08188	Calcium	10.15
BC08189	Calcium	10.15
BC08190	Calcium	10.15
BC08539	Calcium	10.15
BC08542	Calcium	10.15
BC08543	Calcium	10.15
BC08544	Calcium	10.15
BC08545	Calcium	10.15
BC08546	Calcium	10.15
BC08551	Calcium	10.15
BC08552	Calcium	10.15
BC08553	Calcium, Magnesium	10.15
BC08554	Calcium, Sodium	10.15
BC08555	Calcium	10.15
BC08557	Calcium	10.15
BC08558	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Dissolved Metals ICP

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724474	WMWGASAP_1360
BC07756	724474	WMWGASAP_1360
BC07757	724474	WMWGASAP_1360
BC07758	724474	WMWGASAP_1360
BC07759	724474	WMWGASAP_1360
BC07760	724474	WMWGASAP_1360
BC07761	724474	WMWGASAP_1360
BC07762	724474	WMWGASAP_1360
BC07764	724474	WMWGASAP_1360
BC07765	724474	WMWGASAP_1360
BC07766	724475	WMWGASAP_1360
BC07767	724475	WMWGASAP_1360
BC07768	724475	WMWGASAP_1360
BC07769	724475	WMWGASAP_1360
BC07771	724475	WMWGASAP_1360
BC07772	724475	WMWGASAP_1360
BC07773	724475	WMWGASAP_1360
BC08175	724975	WMWGASAP_1360
BC08176	724975	WMWGASAP_1360
BC08177	724975	WMWGASAP_1360
BC08178	724975	WMWGASAP_1360
BC08180	724975	WMWGASAP_1360
BC08181	724975	WMWGASAP_1360
BC08182	724975	WMWGASAP_1360
BC08183	724975	WMWGASAP_1360
BC08184	724975	WMWGASAP_1360
BC08185	724975	WMWGASAP_1360
BC08186	724976	WMWGASAP_1360
BC08187	724976	WMWGASAP_1360
BC08188	724976	WMWGASAP_1360
BC08189	724976	WMWGASAP_1360

BC08190	724976	WMWGASAP_1360
BC08539	725394	WMWGASAP_1360
BC08540	725394	WMWGASAP_1360
BC08541	725394	WMWGASAP_1360
BC08542	725394	WMWGASAP_1360
BC08543	725394	WMWGASAP_1360
BC08544	725394	WMWGASAP_1360
BC08545	725394	WMWGASAP_1360
BC08546	725394	WMWGASAP_1360
BC08548	725394	WMWGASAP_1360
BC08549	725394	WMWGASAP_1360
BC08551	725395	WMWGASAP_1360
BC08552	725395	WMWGASAP_1360
BC08553	725395	WMWGASAP_1360
BC08554	725395	WMWGASAP_1360
BC08555	725395	WMWGASAP_1360
BC08556	725395	WMWGASAP_1360
BC08557	725395	WMWGASAP_1360
BC08558	725395	WMWGASAP_1360

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any

qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BC07773 Calcium MS/MSD spike levels were <30% of the sample concentrations.
    - BC08190 Calcium MS/MSD spike levels were <30% of the sample concentrations.
    - BC08558 Calcium MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BC07755	Calcium, Magnesium	10.15
BC07756	Calcium, Magnesium	10.15
BC07758	Calcium, Iron, Magnesium	10.15
BC07759	Calcium, Iron, Magnesium	10.15
BC07760	Calcium, Magnesium	10.15
BC07761	Calcium, Sodium	10.15
BC07762	Calcium	10.15
BC07771	Magnesium	10.15
BC07772	Calcium	10.15
BC07773	Calcium	10.15
BC08175	Sodium	10.15
BC08176	Calcium	10.15
BC08177	Calcium	10.15
BC08178	Calcium, Sodium	10.15
BC08180	Calcium, Magnesium	10.15
BC08181	Calcium	10.15
BC08182	Calcium, Sodium	10.15
BC08183	Calcium, Magnesium	10.15
BC08184	Calcium	10.15
BC08185	Calcium	10.15
BC08186	Calcium	10.15

BC08187	Calcium	10.15
BC08188	Calcium	10.15
BC08189	Calcium	10.15
BC08190	Calcium	10.15
BC08539	Calcium	10.15
BC08542	Calcium	10.15
BC08543	Calcium	10.15
BC08544	Calcium	10.15
BC08545	Calcium	10.15
BC08546	Calcium	10.15
BC08551	Calcium	10.15
BC08552	Calcium	10.15
BC08553	Calcium	10.15
BC08554	Calcium, Sodium	10.15
BC08555	Calcium	10.15
BC08557	Calcium	10.15
BC08558	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Total Metals ICPMS

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724659	WMWGASAP_1360
BC07757	724659	WMWGASAP_1360
BC07758	724659	WMWGASAP_1360
BC07759	724659	WMWGASAP_1360
BC07760	724659	WMWGASAP_1360
BC07761	724659	WMWGASAP_1360
BC07762	724659	WMWGASAP_1360
BC07763	724659	WMWGASAP_1360
BC07764	724659	WMWGASAP_1360
BC07765	724659	WMWGASAP_1360
BC07766	724660	WMWGASAP_1360
BC07767	724660	WMWGASAP_1360
BC07768	724660	WMWGASAP_1360
BC07769	724660	WMWGASAP_1360
BC07770	724660	WMWGASAP_1360
BC07771	724660	WMWGASAP_1360
BC07772	724660	WMWGASAP_1360
BC07773	724660	WMWGASAP_1360
BC08175	725081	WMWGASAP_1360
BC08176	725081	WMWGASAP_1360
BC08177	725081	WMWGASAP_1360
BC08178	725081	WMWGASAP_1360
BC08179	725081	WMWGASAP_1360
BC08180	725081	WMWGASAP_1360
BC08181	725081	WMWGASAP_1360
BC08182	725081	WMWGASAP_1360
BC08183	725081	WMWGASAP_1360
BC08184	725081	WMWGASAP_1360
BC08185	725082	WMWGASAP_1360
BC08186	725082	WMWGASAP_1360
BC08187	725082	WMWGASAP_1360

BC08188	725082	WMWGASAP_1360
BC08189	725082	WMWGASAP_1360
BC08190	725082	WMWGASAP_1360
BC08191	725082	WMWGASAP_1360
BC08539	725630	WMWGASAP_1360
BC08540	725630	WMWGASAP_1360
BC08541	725630	WMWGASAP_1360
BC08542	725630	WMWGASAP_1360
BC08543	725630	WMWGASAP_1360
BC08544	725630	WMWGASAP_1360
BC08545	725630	WMWGASAP_1360
BC08546	725630	WMWGASAP_1360
BC08547	725630	WMWGASAP_1360
BC08548	725630	WMWGASAP_1360
BC08549	725631	WMWGASAP_1360
BC08550	725631	WMWGASAP_1360
BC08551	725631	WMWGASAP_1360
BC08552	725631	WMWGASAP_1360
BC08553	725631	WMWGASAP_1360
BC08554	725631	WMWGASAP_1360
BC08555	725631	WMWGASAP_1360
BC08556	725631	WMWGASAP_1360
BC08557	725631	WMWGASAP_1360
BC08558	725631	WMWGASAP_1360

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.

- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BC08184 Molybdenum MS/MSD spike levels were <30% of the sample concentrations.
    - BC08548 Aluminum & Molybdenum MS/MSD spike levels were outside of specification limits.
    - BC08558 Aluminum & Molybdenum MS/MSD spike levels were outside of specification limits.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BC07761	Molybdenum	5.075
BC08184	Molybdenum	5.075

8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Dissolved Metals ICPMS

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724588	WMWGASAP_1360
BC07756	724588	WMWGASAP_1360
BC07757	724588	WMWGASAP_1360
BC07758	724588	WMWGASAP_1360
BC07759	724588	WMWGASAP_1360
BC07760	724588	WMWGASAP_1360
BC07761	724588	WMWGASAP_1360
BC07762	724588	WMWGASAP_1360
BC07764	724588	WMWGASAP_1360
BC07765	724588	WMWGASAP_1360
BC07766	724589	WMWGASAP_1360
BC07767	724589	WMWGASAP_1360
BC07768	724589	WMWGASAP_1360
BC07769	724589	WMWGASAP_1360
BC07771	724589	WMWGASAP_1360
BC07772	724589	WMWGASAP_1360
BC07773	724589	WMWGASAP_1360
BC08175	725021	WMWGASAP_1360
BC08176	725021	WMWGASAP_1360
BC08177	725021	WMWGASAP_1360
BC08178	725021	WMWGASAP_1360
BC08180	725021	WMWGASAP_1360
BC08181	725021	WMWGASAP_1360
BC08182	725021	WMWGASAP_1360
BC08183	725021	WMWGASAP_1360
BC08184	725021	WMWGASAP_1360
BC08185	725021	WMWGASAP_1360
BC08186	725022	WMWGASAP_1360
BC08187	725022	WMWGASAP_1360
BC08188	725022	WMWGASAP_1360
BC08189	725022	WMWGASAP_1360

BC08190	725022	WMWGASAP_1360
BC08539	725791	WMWGASAP_1360
BC08540	725791	WMWGASAP_1360
BC08541	725791	WMWGASAP_1360
BC08542	725791	WMWGASAP_1360
BC08543	725791	WMWGASAP_1360
BC08544	725791	WMWGASAP_1360
BC08545	725791	WMWGASAP_1360
BC08546	725791	WMWGASAP_1360
BC08548	727341	WMWGASAP_1360
BC08549	725791	WMWGASAP_1360
BC08551	725792	WMWGASAP_1360
BC08552	725792	WMWGASAP_1360
BC08553	725792	WMWGASAP_1360
BC08554	725792	WMWGASAP_1360
BC08555	725792	WMWGASAP_1360
BC08556	725792	WMWGASAP_1360
BC08557	725792	WMWGASAP_1360
BC08558	725792	WMWGASAP_1360

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional

QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BC07761	Molybdenum	5.075
BC08184	Molybdenum	5.075

8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Mercury

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724709	WMWGASAP_1360
BC07757	724709	WMWGASAP_1360
BC07758	724709	WMWGASAP_1360
BC07759	724709	WMWGASAP_1360
BC07760	724709	WMWGASAP_1360
BC07761	724709	WMWGASAP_1360
BC07762	724709	WMWGASAP_1360
BC07763	724709	WMWGASAP_1360
BC07764	724709	WMWGASAP_1360
BC07765	724709	WMWGASAP_1360
BC07766	724710	WMWGASAP_1360
BC07767	724710	WMWGASAP_1360
BC07768	724710	WMWGASAP_1360
BC07769	724710	WMWGASAP_1360
BC07770	724710	WMWGASAP_1360
BC07771	724710	WMWGASAP_1360
BC07772	724710	WMWGASAP_1360
BC07773	724710	WMWGASAP_1360
BC08175	725004	WMWGASAP_1360
BC08176	725004	WMWGASAP_1360
BC08177	725004	WMWGASAP_1360
BC08178	725004	WMWGASAP_1360
BC08179	725004	WMWGASAP_1360
BC08180	725004	WMWGASAP_1360
BC08181	725004	WMWGASAP_1360
BC08182	725004	WMWGASAP_1360
BC08183	725004	WMWGASAP_1360
BC08184	725004	WMWGASAP_1360
BC08185	725005	WMWGASAP_1360
BC08186	725005	WMWGASAP_1360
BC08187	725005	WMWGASAP_1360

BC08188	725005	WMWGASAP_1360
BC08189	725005	WMWGASAP_1360
BC08190	725005	WMWGASAP_1360
BC08191	725005	WMWGASAP_1360
BC08539	725431	WMWGASAP_1360
BC08540	725431	WMWGASAP_1360
BC08541	725431	WMWGASAP_1360
BC08542	725431	WMWGASAP_1360
BC08543	725431	WMWGASAP_1360
BC08544	725431	WMWGASAP_1360
BC08545	725431	WMWGASAP_1360
BC08546	725431	WMWGASAP_1360
BC08547	725431	WMWGASAP_1360
BC08548	725431	WMWGASAP_1360
BC08549	725432	WMWGASAP_1360
BC08550	725432	WMWGASAP_1360
BC08551	725432	WMWGASAP_1360
BC08552	725432	WMWGASAP_1360
BC08553	725432	WMWGASAP_1360
BC08554	725432	WMWGASAP_1360
BC08555	725432	WMWGASAP_1360
BC08556	725432	WMWGASAP_1360
BC08557	725432	WMWGASAP_1360
BC08558	725432	WMWGASAP_1360

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.

- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Dissolved Mercury

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07756	724711	WMWGASAP_1360

4. All of the above samples were analyzed and prepared by EPA 245.1 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were digested and analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution.

Revision 5

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Nitrate-Nitrite

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724766	WMWGASAP_1360
BC07756	724766	WMWGASAP_1360
BC07757	724766	WMWGASAP_1360
BC07758	724766	WMWGASAP_1360
BC07759	724766	WMWGASAP_1360
BC07760	724766	WMWGASAP_1360
BC07761	724766	WMWGASAP_1360
BC07762	724766	WMWGASAP_1360
BC07763	724766	WMWGASAP_1360
BC07764	724766	WMWGASAP_1360
BC07765	724767	WMWGASAP_1360
BC07766	724767	WMWGASAP_1360
BC07767	724767	WMWGASAP_1360
BC07768	724767	WMWGASAP_1360
BC07769	724767	WMWGASAP_1360
BC07770	724767	WMWGASAP_1360
BC07771	724767	WMWGASAP_1360
BC07772	724767	WMWGASAP_1360
BC07773	724767	WMWGASAP_1360
BC08175	724767	WMWGASAP_1360
BC08176	724768	WMWGASAP_1360
BC08177	724768	WMWGASAP_1360
BC08178	724768	WMWGASAP_1360
BC08179	724768	WMWGASAP_1360
BC08180	724768	WMWGASAP_1360
BC08181	724768	WMWGASAP_1360
BC08182	724768	WMWGASAP_1360
BC08183	724768	WMWGASAP_1360
BC08184	724768	WMWGASAP_1360
BC08185	724768	WMWGASAP_1360
BC08186	724769	WMWGASAP_1360

BC08187	724769	WMWGASAP_1360
BC08188	724769	WMWGASAP_1360
BC08189	724769	WMWGASAP_1360
BC08190	724769	WMWGASAP_1360
BC08191	724769	WMWGASAP_1360
BC08539	725461	WMWGASAP_1360
BC08540	725461	WMWGASAP_1360
BC08541	725461	WMWGASAP_1360
BC08542	725461	WMWGASAP_1360
BC08543	725461	WMWGASAP_1360
BC08544	725461	WMWGASAP_1360
BC08545	725461	WMWGASAP_1360
BC08546	725461	WMWGASAP_1360
BC08547	725461	WMWGASAP_1360
BC08548	725461	WMWGASAP_1360
BC08549	725462	WMWGASAP_1360
BC08550	725462	WMWGASAP_1360
BC08551	725462	WMWGASAP_1360
BC08552	725462	WMWGASAP_1360
BC08553	725462	WMWGASAP_1360
BC08554	725462	WMWGASAP_1360
BC08555	725462	WMWGASAP_1360
BC08556	725462	WMWGASAP_1360
BC08557	725462	WMWGASAP_1360
BC08558	725462	WMWGASAP_1360

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Total Organic Carbon

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724666	WMWGASAP_1360
BC07756	724666	WMWGASAP_1360
BC07757	724666	WMWGASAP_1360
BC07758	724666	WMWGASAP_1360
BC07759	724666	WMWGASAP_1360
BC07760	724666	WMWGASAP_1360
BC07761	724666	WMWGASAP_1360
BC07762	724666	WMWGASAP_1360
BC07763	724666	WMWGASAP_1360
BC07764	724666	WMWGASAP_1360
BC07765	724667	WMWGASAP_1360
BC07766	724667	WMWGASAP_1360
BC07767	724667	WMWGASAP_1360
BC07768	724667	WMWGASAP_1360
BC07769	724667	WMWGASAP_1360
BC07770	724667	WMWGASAP_1360
BC07771	724667	WMWGASAP_1360
BC07772	724667	WMWGASAP_1360
BC07773	724667	WMWGASAP_1360
BC08175	725348	WMWGASAP_1360
BC08176	725348	WMWGASAP_1360
BC08177	725348	WMWGASAP_1360
BC08178	725348	WMWGASAP_1360
BC08179	725348	WMWGASAP_1360
BC08180	725348	WMWGASAP_1360
BC08181	725348	WMWGASAP_1360
BC08182	725348	WMWGASAP_1360
BC08183	725348	WMWGASAP_1360
BC08184	725348	WMWGASAP_1360
BC08185	725349	WMWGASAP_1360
BC08186	725349	WMWGASAP_1360

BC08187	725349	WMWGASAP_1360
BC08188	725349	WMWGASAP_1360
BC08189	725349	WMWGASAP_1360
BC08190	725349	WMWGASAP_1360
BC08191	725349	WMWGASAP_1360
BC08539	725659	WMWGASAP_1360
BC08540	725659	WMWGASAP_1360
BC08541	725659	WMWGASAP_1360
BC08542	725659	WMWGASAP_1360
BC08543	725659	WMWGASAP_1360
BC08544	725659	WMWGASAP_1360
BC08545	725659	WMWGASAP_1360
BC08546	725659	WMWGASAP_1360
BC08547	725659	WMWGASAP_1360
BC08548	725659	WMWGASAP_1360
BC08549	725660	WMWGASAP_1360
BC08550	725660	WMWGASAP_1360
BC08551	725660	WMWGASAP_1360
BC08552	725660	WMWGASAP_1360
BC08553	725660	WMWGASAP_1360
BC08554	725660	WMWGASAP_1360
BC08555	725660	WMWGASAP_1360
BC08556	725660	WMWGASAP_1360
BC08557	725660	WMWGASAP_1360
BC08558	725660	WMWGASAP_1360

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Total Dissolved Solids

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724307	WMWGASAP_1360
BC07756	724307	WMWGASAP_1360
BC07757	724307	WMWGASAP_1360
BC07758	724307	WMWGASAP_1360
BC07759	724307	WMWGASAP_1360
BC07760	724308	WMWGASAP_1360
BC07761	724493	WMWGASAP_1360
BC07762	724493	WMWGASAP_1360
BC07763	724493	WMWGASAP_1360
BC07764	724308	WMWGASAP_1360
BC07765	724308	WMWGASAP_1360
BC07766	724308	WMWGASAP_1360
BC07767	724308	WMWGASAP_1360
BC07768	724308	WMWGASAP_1360
BC07769	724308	WMWGASAP_1360
BC07771	724308	WMWGASAP_1360
BC07772	724308	WMWGASAP_1360
BC07773	724493	WMWGASAP_1360
BC08175	724899	WMWGASAP_1360
BC08176	724899	WMWGASAP_1360
BC08177	724899	WMWGASAP_1360
BC08178	724899	WMWGASAP_1360
BC08179	724899	WMWGASAP_1360
BC08180	724900	WMWGASAP_1360
BC08181	724900	WMWGASAP_1360
BC08182	724900	WMWGASAP_1360
BC08183	724900	WMWGASAP_1360
BC08184	724900	WMWGASAP_1360
BC08185	724900	WMWGASAP_1360
BC08186	724900	WMWGASAP_1360
BC08187	724900	WMWGASAP_1360

BC08188	724900	WMWGASAP_1360
BC08189	724900	WMWGASAP_1360
BC08190	725269	WMWGASAP_1360
BC08191	725269	WMWGASAP_1360
BC08539	725357	WMWGASAP_1360
BC08540	725357	WMWGASAP_1360
BC08541	725357	WMWGASAP_1360
BC08542	725357	WMWGASAP_1360
BC08543	725357	WMWGASAP_1360
BC08544	725357	WMWGASAP_1360
BC08545	725686	WMWGASAP_1360
BC08546	725686	WMWGASAP_1360
BC08547	725686	WMWGASAP_1360
BC08548	725357	WMWGASAP_1360
BC08549	725358	WMWGASAP_1360
BC08550	725358	WMWGASAP_1360
BC08551	725358	WMWGASAP_1360
BC08552	725358	WMWGASAP_1360
BC08553	725358	WMWGASAP_1360
BC08554	725358	WMWGASAP_1360
BC08555	725358	WMWGASAP_1360
BC08556	725358	WMWGASAP_1360
BC08557	725358	WMWGASAP_1360
BC08558	725358	WMWGASAP_1360

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was ≤10%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
    - BC07770
    - BC07763
    - BC08179
    - BC08191

- BC08547
- BC08550

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Anions

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	724398,724400,725304	WMWGASAP_1360
BC07756	724398,724400,725304	WMWGASAP_1360
BC07757	724398,724400,725304	WMWGASAP_1360
BC07758	724398,724400,725304	WMWGASAP_1360
BC07759	724398,724400,725304	WMWGASAP_1360
BC07760	724398,724400,725304	WMWGASAP_1360
BC07761	724398,724400,725304	WMWGASAP_1360
BC07762	724398,724400,725304	WMWGASAP_1360
BC07763	724398,724400,725304	WMWGASAP_1360
BC07764	724398,724400,725304	WMWGASAP_1360
BC07765	724399,724401,725305	WMWGASAP_1360
BC07766	724399,724401,725305	WMWGASAP_1360
BC07767	724399,724401,725305	WMWGASAP_1360
BC07768	724399,724401,725305	WMWGASAP_1360
BC07769	724399,724401,725305	WMWGASAP_1360
BC07770	724399,724401,725305	WMWGASAP_1360
BC07771	724399,724401,725305	WMWGASAP_1360
BC07772	724399,724401,725305	WMWGASAP_1360
BC07773	724399,724401,725305	WMWGASAP_1360
BC08175	724937,724939,725305	WMWGASAP_1360
BC08176	724937,724939,725306	WMWGASAP_1360
BC08177	724937,724939,725306	WMWGASAP_1360
BC08178	724937,724939,725306	WMWGASAP_1360
BC08179	724937,724939,725306	WMWGASAP_1360
BC08180	724937,724939,725306	WMWGASAP_1360
BC08181	724937,724939,725306	WMWGASAP_1360
BC08182	724937,724939,725306	WMWGASAP_1360
BC08183	724937,724939,725306	WMWGASAP_1360
BC08184	724937,724939,725306	WMWGASAP_1360
BC08185	724938,724940,725306	WMWGASAP_1360
BC08186	724938,724940,725307	WMWGASAP_1360

BC08187	724938,724940,725307	WMWGASAP_1360
BC08188	724938,724940,725307	WMWGASAP_1360
BC08189	724938,724940,725307	WMWGASAP_1360
BC08190	724938,724940,725307	WMWGASAP_1360
BC08191	724938,724940,725307	WMWGASAP_1360
BC08539	725821,725823,726368	WMWGASAP_1360
BC08540	725821,725823,726368	WMWGASAP_1360
BC08541	725821,725823,726368	WMWGASAP_1360
BC08542	725821,725823,726368	WMWGASAP_1360
BC08543	725821,725823,726368	WMWGASAP_1360
BC08544	725821,725823,726368	WMWGASAP_1360
BC08545	725821,725823,726368	WMWGASAP_1360
BC08546	725821,725823,726368	WMWGASAP_1360
BC08547	725821,725823,726368	WMWGASAP_1360
BC08548	725821,725823,726368	WMWGASAP_1360
BC08549	725822,725824,726369	WMWGASAP_1360
BC08550	725822,725824,726369	WMWGASAP_1360
BC08551	725822,725824,726369	WMWGASAP_1360
BC08552	725822,725824,726369	WMWGASAP_1360
BC08553	725822,725824,726369	WMWGASAP_1360
BC08554	725822,725824,726369	WMWGASAP_1360
BC08555	725822,725824,726369	WMWGASAP_1360
BC08556	725822,725824,726369	WMWGASAP_1360
BC08557	725822,725824,726369	WMWGASAP_1360
BC08558	725822,725824,726369	WMWGASAP_1360

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any

qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BC07755	Chloride, Sulfate	2, 20
BC07756	Chloride, Sulfate	2, 20
BC07758	Sulfate	20
BC07759	Sulfate	20
BC07760	Sulfate	25
BC07761	Chloride, Sulfate	20, 20
BC07762	Chloride, Sulfate	16, 16
BC07771	Chloride, Sulfate	10, 2
BC07772	Chloride, Sulfate	2, 2
BC07773	Chloride, Sulfate	5, 4
BC08175	Chloride, Sulfate	16, 10
BC08177	Sulfate	4
BC08178	Chloride, Sulfate	4, 8
BC08180	Sulfate	20
BC08181	Sulfate	2
BC08182	Chloride	2
BC08183	Sulfate	10
BC08184	Chloride, Sulfate	10, 16
BC08185	Chloride, Sulfate	2, 10
BC08186	Chloride, Sulfate	2, 10
BC08187	Chloride, Sulfate	2, 10
BC08188	Sulfate	8
BC08189	Sulfate	8
BC08190	Sulfate	8
BC08542	Sulfate	3
BC08543	Sulfate	5

BC08544	Chloride, Sulfate	2, 8
BC08545	Chloride, Sulfate	2, 8
BC08546	Sulfate	4
BC08552	Sulfate	5
BC08553	Chloride	2
BC08554	Chloride, Sulfate	16, 16

8. The raw data results are shown with dilution factors included.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Case Narrative

Alabama Power

Alkalinity

Gaston Ash Pond

WMWGASAP_1360

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BC07755	725255, 725256	WMWGASAP_1360
BC07756	725255, 725256	WMWGASAP_1360
BC07757	725255, 725256	WMWGASAP_1360
BC07758	725329, 725330	WMWGASAP_1360
BC07759	725329, 725330	WMWGASAP_1360
BC07760	725329, 725330	WMWGASAP_1360
BC07761	725329, 725330	WMWGASAP_1360
BC07762	725329, 725330	WMWGASAP_1360
BC07764	725255, 725256	WMWGASAP_1360
BC07765	725255, 725256	WMWGASAP_1360
BC07766	725255, 725256	WMWGASAP_1360
BC07767	725255, 725256	WMWGASAP_1360
BC07768	725255, 725256	WMWGASAP_1360
BC07769	725255, 725256	WMWGASAP_1360
BC07771	725329, 725330	WMWGASAP_1360
BC07772	725329, 725330	WMWGASAP_1360
BC07773	725329, 725330	WMWGASAP_1360
BC08175	725825, 725826	WMWGASAP_1360
BC08176	725825, 725826	WMWGASAP_1360
BC08177	725825, 725826	WMWGASAP_1360
BC08178	725825, 725826	WMWGASAP_1360
BC08180	725913, 725914	WMWGASAP_1360
BC08181	725913, 725914	WMWGASAP_1360
BC08182	725913, 725914	WMWGASAP_1360
BC08183	725825, 725826	WMWGASAP_1360
BC08184	725825, 725826	WMWGASAP_1360
BC08185	725825, 725826	WMWGASAP_1360
BC08186	725913, 725914	WMWGASAP_1360
BC08187	725913, 725914	WMWGASAP_1360
BC08188	725913, 725914	WMWGASAP_1360
BC08189	725913, 725914	WMWGASAP_1360

BC08190	725913, 725914	WMWGASAP_1360
BC08539	726128, 726129	WMWGASAP_1360
BC08540	726128, 726129	WMWGASAP_1360
BC08541	726243, 726244	WMWGASAP_1360
BC08542	726243, 726244	WMWGASAP_1360
BC08543	726243, 726244	WMWGASAP_1360
BC08544	726243, 726244	WMWGASAP_1360
BC08545	726243, 726244	WMWGASAP_1360
BC08546	726243, 726244	WMWGASAP_1360
BC08548	726128, 726129	WMWGASAP_1360
BC08549	726128, 726129	WMWGASAP_1360
BC08551	726243, 726244	WMWGASAP_1360
BC08552	726243, 726244	WMWGASAP_1360
BC08553	726128, 726129	WMWGASAP_1360
BC08554	726128, 726129	WMWGASAP_1360
BC08555	726243, 726244	WMWGASAP_1360
BC08556	726243, 726244	WMWGASAP_1360
BC08557	726243, 726244	WMWGASAP_1360
BC08558	726243, 726244	WMWGASAP_1360

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
    - BC07755
    - BC07756
    - BC07758
    - BC07759
    - BC07760
    - BC07761
    - BC07762
    - BC08175
    - BC08180
    - BC08183
    - BC08184
    - BC08554

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 4/19/22 12:25
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07755

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:34		1.015	3.07	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 13:49		10.15	130	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:29	4/25/22 12:34		1.015	0.499	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:29	4/25/22 12:34		1.015	0.0416	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/22/22 14:29	4/25/22 13:49		10.15	68.6	mg/L	0.21315	4.06	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:34		1	7.77	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:34		1.015	3.63	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 12:34		1.015	18.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 10:51		1.015	3.05	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:03		10.15	140	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:23	4/27/22 10:51		1.015	0.209	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:23	4/27/22 10:51		1.015	0.0422	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 12:03		10.15	76.5	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 10:51		1	7.53	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 10:51		1.015	3.52	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 10:51		1.015	19.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.918	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.00298	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.0323	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.0000886	mg/L	0.000068	0.000203	J
* Chromium, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.00174	mg/L	0.000203	0.001015	
* Cobalt, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.000332	mg/L	0.000068	0.000203	
* Lead, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.00115	mg/L	0.000068	0.000203	
* Manganese, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.0170	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.338	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 15:13		1.015	0.529	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 4/19/22 12:25
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07755

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	0.00182	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	0.0285	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	0.000216	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	0.0000878	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	0.0133	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	0.338	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	0.327	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 12:57	4/28/22 12:57		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	74.0	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	856	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	73.1	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	0.808	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 16:47	4/26/22 16:47		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 4/19/22 12:25
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07755

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:01	4/25/22 11:01		2	22.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:02	4/25/22 13:02		1	0.0679	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:11	5/3/22 09:11		20	501	mg/L	12.0	40	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	4/19/22 12:21	4/19/22 12:21			959.32	uS/cm			FA
pH	4/19/22 12:21	4/19/22 12:21			8.11	SU			FA
Temperature	4/19/22 12:21	4/19/22 12:21			29.38	C			FA
Turbidity	4/19/22 12:21	4/19/22 12:21			29.8	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:25
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BC07755

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:25
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BC07755

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:25
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BC07755

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:25
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BC07755

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07759	Solids, Dissolved	mg/L	0.0000	25.0			754	54.0	40.0 to 60.0			1.84	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20V Dis

Location Code: WMWGASAP
Collected: 4/19/22 12:25
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07756

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 10:54		1.015	3.06	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:06		10.15	137	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:23	4/27/22 10:54		1.015	0.222	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:23	4/27/22 10:54		1.015	0.0427	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 12:06		10.15	74.8	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 10:54		1	7.58	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 10:54		1.015	3.54	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 10:54		1.015	19.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	0.00170	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	0.0288	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	0.0000702	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	0.0130	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	0.337	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	0.342	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Dissolved by CVAA	4/27/22 17:14	4/27/22 22:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 12:58	4/28/22 12:58		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	74.0	mg/L		0.1	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20V Dis

Location Code: WMWGASAP
Collected: 4/19/22 12:25
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07756

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		***Analyst: CNJ***							
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	854	mg/L		50	
Analytical Method: SM 4500CO2 D		***Analyst: ALH***							
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	73.1	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	0.865	mg/L		0.5	A
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	4/26/22 17:06	4/26/22 17:06		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:02	4/25/22 11:02		2	21.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:03	4/25/22 13:03		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:12	5/3/22 09:12		20	495	mg/L	12.0	40	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	4/19/22 12:21	4/19/22 12:21			959.32	uS/cm			FA
pH	4/19/22 12:21	4/19/22 12:21			8.11	SU			FA
Temperature	4/19/22 12:21	4/19/22 12:21			29.38	C			FA
Turbidity	4/19/22 12:21	4/19/22 12:21			29.8	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:25
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20V Dis

Laboratory ID Number: BC07756

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07756	Mercury, Dissolved by	mg/L	-0.0002	0.000500	0.004	0.00384	0.00388	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	1.04	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:25
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20V Dis

Laboratory ID Number: BC07756

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:25
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20V Dis

Laboratory ID Number: BC07756

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07759	Solids, Dissolved	mg/L	0.0000	25.0			754	54.0	40.0 to 60.0			1.84	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP
Collected: 4/19/22 15:45
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07757

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:37		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 13:52		10.15	45.6	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:29	4/25/22 12:37		1.015	0.552	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:29	4/25/22 12:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 12:37		1.015	22.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:37		1	8.67	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:37		1.015	4.05	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 12:37		1.015	14.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 10:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:23	4/27/22 10:57		1.015	39.5	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:23	4/27/22 10:57		1.015	0.473	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:23	4/27/22 10:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 10:57		1.015	23.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 10:57		1	8.65	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 10:57		1.015	4.04	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 10:57		1.015	15.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:17		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/25/22 10:32	4/25/22 15:17		1.015	0.00215	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:17		1.015	0.0141	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 15:17		1.015	0.000298	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 15:17		1.015	0.000168	mg/L	0.000068	0.000203	J
* Lead, Total	4/25/22 10:32	4/25/22 15:17		1.015	0.000191	mg/L	0.000068	0.000203	J
* Manganese, Total	4/25/22 10:32	4/25/22 15:17		1.015	0.0131	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:17		1.015	0.0146	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 15:17		1.015	0.353	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP
Collected: 4/19/22 15:45
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07757

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	0.00196	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	0.0135	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	0.000163	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	0.0117	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	0.0145	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	0.352	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:00	4/28/22 13:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	210	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	225	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	208	mg/L			
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	1.91	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 17:27	4/26/22 17:27		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP
Collected: 4/19/22 15:45
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07757

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/25/22 10:49	4/25/22 10:49		1	13.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/25/22 13:04	4/25/22 13:04		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 09:13	5/3/22 09:13		1	27.6	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/19/22 15:42	4/19/22 15:42			370.93	uS/cm			FA
pH	4/19/22 15:42	4/19/22 15:42			7.63	SU			FA
Temperature	4/19/22 15:42	4/19/22 15:42			33.57	C			FA
Turbidity	4/19/22 15:42	4/19/22 15:42			1.08	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 15:45
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BC07757

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 15:45
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BC07757

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 15:45
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BC07757

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 15:45
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BC07757

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07759	Solids, Dissolved	mg/L	0.0000	25.0			754	54.0	40.0 to 60.0			1.84	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP
Collected: 4/20/22 10:55
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07758

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:39		1.015	2.91	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 13:55		10.15	136	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:29	4/25/22 13:55		10.15	8.00	mg/L	0.08120	0.406	
* Lithium, Total	4/22/22 14:29	4/25/22 12:39		1.015	0.00728	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/22/22 14:29	4/25/22 13:55		10.15	50.3	mg/L	0.21315	4.06	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:39		1	15.3	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:39		1.015	7.16	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 12:39		1.015	15.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:00		1.015	2.92	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:09		10.15	139	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:23	4/27/22 12:09		10.15	7.68	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:00		1.015	0.00740	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 12:09		10.15	53.6	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:00		1	15.5	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:00		1.015	7.22	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:00		1.015	16.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:20		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/25/22 10:32	4/25/22 15:20		1.015	0.00226	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:20		1.015	0.119	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 15:20		1.015	0.000241	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 15:20		1.015	0.000499	mg/L	0.000068	0.000203	
* Lead, Total	4/25/22 10:32	4/25/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 15:20		1.015	0.170	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:20		1.015	0.174	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 15:20		1.015	0.776	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP
Collected: 4/20/22 10:55
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07758

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	0.00180	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	0.118	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	0.000472	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	0.163	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	0.174	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	0.778	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:02	4/28/22 13:02		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/3/22 14:10	5/3/22 15:33		1	108	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	748	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	107	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	0.666	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 17:45	4/26/22 17:45		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP
Collected: 4/20/22 10:55
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07758

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 10:50	4/25/22 10:50		1	18.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:06	4/25/22 13:06		1	0.0672	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:15	5/3/22 09:15		20	416	mg/L	12.0	40	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	4/20/22 10:50	4/20/22 10:50			797.96	uS/cm			FA
pH	4/20/22 10:50	4/20/22 10:50			7.10	SU			FA
Temperature	4/20/22 10:50	4/20/22 10:50			33.04	C			FA
Turbidity	4/20/22 10:50	4/20/22 10:50			9.6	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:55
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BC07758

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:55
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BC07758

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:55
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BC07758

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:55
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BC07758

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Alkalinity, Total as CaCO3	mg/L					201	50.8	45.0 to 55.0			1.50	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07759	Solids, Dissolved	mg/L	0.0000	25.0			754	54.0	40.0 to 60.0			1.84	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP
Collected: 4/20/22 10:55
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07759

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:42		1.015	2.92	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 13:58		10.15	152	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:29	4/25/22 13:58		10.15	8.48	mg/L	0.08120	0.406	
* Lithium, Total	4/22/22 14:29	4/25/22 12:42		1.015	0.00723	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/22/22 14:29	4/25/22 13:58		10.15	53.5	mg/L	0.21315	4.06	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:42		1	15.4	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:42		1.015	7.19	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 12:42		1.015	16.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:02		1.015	2.90	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:12		10.15	143	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:23	4/27/22 12:12		10.15	7.81	mg/L	0.08120	0.406	
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:02		1.015	0.00730	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 12:12		10.15	54.8	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:02		1	15.4	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:02		1.015	7.19	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:02		1.015	16.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:24		1.015	0.00639	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/25/22 10:32	4/25/22 15:24		1.015	0.00228	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:24		1.015	0.120	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 15:24		1.015	0.000237	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 15:24		1.015	0.000553	mg/L	0.000068	0.000203	
* Lead, Total	4/25/22 10:32	4/25/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 15:24		1.015	0.167	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:24		1.015	0.174	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 15:24		1.015	0.767	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP
Collected: 4/20/22 10:55
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07759

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	0.00195	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	0.116	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	0.000515	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	0.170	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	0.175	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	0.796	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 12:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:04	4/28/22 13:04		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/3/22 14:10	5/3/22 15:33		1	119	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	768	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	119	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 18:04	4/26/22 18:04		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP
Collected: 4/20/22 10:55
Customer ID:
Submittal Date: 4/21/22 09:51

Laboratory ID Number: BC07759

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/25/22 10:51	4/25/22 10:51		1	17.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/25/22 13:07	4/25/22 13:07		1	0.0669	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 09:16	5/3/22 09:16		20	441	mg/L	12.0	40	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/22 10:50	4/20/22 10:50			797.96	uS/cm			FA
pH	4/20/22 10:50	4/20/22 10:50			7.10	SU			FA
Temperature	4/20/22 10:50	4/20/22 10:50			33.04	C			FA
Turbidity	4/20/22 10:50	4/20/22 10:50			9.6	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:55
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BC07759

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:55
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BC07759

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:55
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BC07759

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:55
Customer ID:
Delivery Date: 4/21/22 09:51

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BC07759

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Alkalinity, Total as CaCO3	mg/L					201	50.8	45.0 to 55.0			1.50	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07759	Solids, Dissolved	mg/L	0.0000	25.0			754	54.0	40.0 to 60.0			1.84	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 4/20/22 12:03
Customer ID:
Submittal Date: 4/21/22 09:53

Laboratory ID Number: BC07760

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:45		1.015	4.49	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 14:01		10.15	182	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:29	4/25/22 12:45		1.015	0.0147	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:29	4/25/22 12:45		1.015	0.119	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/22/22 14:29	4/25/22 14:01		10.15	55.2	mg/L	0.21315	4.06	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:45		1	5.95	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:45		1.015	2.78	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 12:45		1.015	27.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:05		1.015	4.41	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:15		10.15	192	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:05		1.015	0.0196	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:05		1.015	0.129	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 12:15		10.15	63.4	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:05		1	6.01	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:05		1.015	2.81	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:05		1.015	30.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:28		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/25/22 10:32	4/25/22 15:28		1.015	0.00405	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:28		1.015	0.0554	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:28		1.015	0.000134	mg/L	0.000068	0.000203	J
* Chromium, Total	4/25/22 10:32	4/25/22 15:28		1.015	0.00186	mg/L	0.000203	0.001015	
* Cobalt, Total	4/25/22 10:32	4/25/22 15:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 15:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 15:28		1.015	0.00307	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:28		1.015	0.840	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 15:28		1.015	5.68	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 4/20/22 12:03
Customer ID:
Submittal Date: 4/21/22 09:53

Laboratory ID Number: BC07760

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	0.00378	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	0.0542	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	0.000101	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	0.000271	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	0.00290	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	0.798	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	5.42	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 12:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:06	4/28/22 13:06		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/3/22 14:10	5/3/22 15:33		1	54.9	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	946	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	54.4	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 18:22	4/26/22 18:22		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 4/20/22 12:03
Customer ID:
Submittal Date: 4/21/22 09:53

Laboratory ID Number: BC07760

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/25/22 10:52	4/25/22 10:52		1	19.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/25/22 13:08	4/25/22 13:08		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 09:17	5/3/22 09:17		25	575	mg/L	15.0	50	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/22 11:59	4/20/22 11:59			861.37	uS/cm			FA
pH	4/20/22 11:59	4/20/22 11:59			7.83	SU			FA
Temperature	4/20/22 11:59	4/20/22 11:59			33.37	C			FA
Turbidity	4/20/22 11:59	4/20/22 11:59			1.47	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 12:03
Customer ID:
Delivery Date: 4/21/22 09:53

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BC07760

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 12:03
Customer ID:
Delivery Date: 4/21/22 09:53

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BC07760

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 12:03
Customer ID:
Delivery Date: 4/21/22 09:53

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BC07760

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/20/22 12:03
Customer ID:
Delivery Date: 4/21/22 09:53

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BC07760

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Alkalinity, Total as CaCO3	mg/L					201	50.8	45.0 to 55.0			1.50	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 4/20/22 13:38
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07761

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:48		1.015	3.43	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 14:04		10.15	240	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:29	4/25/22 12:48		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:29	4/25/22 12:48		1.015	1.02	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/22/22 14:29	4/25/22 12:48		1.015	10.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:48		1	5.41	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:48		1.015	2.53	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 14:04		10.15	42.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:08		1.015	3.39	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:18		10.15	232	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:08		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:08		1.015	1.03	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:08		1.015	10.6	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:08		1	5.48	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:08		1.015	2.56	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 12:18		10.15	45.8	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:31		1.015	0.000684	mg/L	0.000508	0.001015	J
* Aluminum, Total	4/25/22 10:32	4/25/22 15:31		1.015	0.0790	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 15:31		1.015	0.00840	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:31		1.015	0.120	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:31		1.015	0.000475	mg/L	0.000068	0.000203	
* Chromium, Total	4/25/22 10:32	4/25/22 15:31		1.015	0.000371	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 15:31		1.015	0.0151	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:44		5.075	2.99	mg/L	0.000508	0.001015	
* Potassium, Total	4/25/22 10:32	4/25/22 15:31		1.015	38.6	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 4/20/22 13:38
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07761

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:31		1.015	0.0000785	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	0.000570	mg/L	0.000508	0.001015	J
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	0.0748	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	0.00851	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	0.118	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	0.000466	mg/L	0.000068	0.000203	
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	0.0144	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 14:55		5.075	2.97	mg/L	0.000508	0.001015	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	38.6	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:03		1.015	0.0000798	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:08	4/28/22 13:08		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/3/22 14:10	5/3/22 15:33		1	21.7	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/26/22 10:33	4/27/22 13:27		1	967	mg/L		75.8	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	17.3	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	3.39	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 18:38	4/26/22 18:38		1	1.17	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 4/20/22 13:38
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07761

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:03	4/25/22 11:03		20	186	mg/L	10.00	20	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:09	4/25/22 13:09		1	0.128	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:18	5/3/22 09:18		20	444	mg/L	12.0	40	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	4/20/22 13:34	4/20/22 13:34			1101.12	uS/cm			FA
pH	4/20/22 13:34	4/20/22 13:34			9.25	SU			FA
Temperature	4/20/22 13:34	4/20/22 13:34			35.34	C			FA
Turbidity	4/20/22 13:34	4/20/22 13:34			2.26	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 13:38
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BC07761

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 13:38
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BC07761

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 13:38
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BC07761

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/20/22 13:38
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BC07761

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Alkalinity, Total as CaCO3	mg/L					201	50.8	45.0 to 55.0			1.50	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07773	Solids, Dissolved	mg/L	0.0000	25.0			359	46.0	40.0 to 60.0			1.40	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 4/20/22 14:40
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07762

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:51		1.015	2.61	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 14:07		10.15	140	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:29	4/25/22 12:51		1.015	0.394	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:29	4/25/22 12:51		1.015	0.233	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/22/22 14:29	4/25/22 12:51		1.015	21.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:51		1	5.97	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:51		1.015	2.79	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 12:51		1.015	37.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:11		1.015	2.60	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:21		10.15	132	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:11		1.015	0.390	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:11		1.015	0.227	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:11		1.015	21.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:11		1	5.99	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:11		1.015	2.80	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:11		1.015	37.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:35		1.015	0.00789	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/25/22 10:32	4/25/22 15:35		1.015	0.00183	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:35		1.015	0.0906	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:35		1.015	0.000175	mg/L	0.000068	0.000203	J
* Chromium, Total	4/25/22 10:32	4/25/22 15:35		1.015	0.000268	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 15:35		1.015	0.00247	mg/L	0.000068	0.000203	
* Lead, Total	4/25/22 10:32	4/25/22 15:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 15:35		1.015	0.703	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:35		1.015	1.17	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 15:35		1.015	20.1	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 4/20/22 14:40
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07762

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:35		1.015	0.000268	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	0.00174	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	0.0922	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	0.000116	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	0.00253	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	0.0000726	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	0.735	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	1.14	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	20.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:06		1.015	0.000259	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:10	4/28/22 13:10		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/3/22 14:10	5/3/22 15:33		1	42.5	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/26/22 10:33	4/27/22 13:27		1	636	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	42.3	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 18:56	4/26/22 18:56		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 4/20/22 14:40
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07762

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/25/22 11:04	4/25/22 11:04		16	59.6	mg/L	8.00	16	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/25/22 13:10	4/25/22 13:10		1	0.0941	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 09:19	5/3/22 09:19		16	323	mg/L	9.6	32	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/22 14:38	4/20/22 14:38			771.33	uS/cm			FA
pH	4/20/22 14:38	4/20/22 14:38			7.63	SU			FA
Temperature	4/20/22 14:38	4/20/22 14:38			35.13	C			FA
Turbidity	4/20/22 14:38	4/20/22 14:38			1.59	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 14:40
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BC07762

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 14:40
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BC07762

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 14:40
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BC07762

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/20/22 14:40
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BC07762

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Alkalinity, Total as CaCO3	mg/L					201	50.8	45.0 to 55.0			1.50	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07773	Solids, Dissolved	mg/L	0.0000	25.0			359	46.0	40.0 to 60.0			1.40	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-2

Location Code: WMWGASAPFB
Collected: 4/20/22 15:15
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07763

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:54		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 12:54		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/22/22 14:29	4/25/22 12:54		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:29	4/25/22 12:54		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 12:54		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:54		1	Not Detected	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:54		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/22/22 14:29	4/25/22 12:54		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 15:39		1.015	0.000221	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:39		1.015	0.000136	mg/L	0.000102	0.000203	J
* Potassium, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:11	4/28/22 13:11		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/26/22 10:33	4/27/22 13:27		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-2

Location Code: WMWGASAPFB
Collected: 4/20/22 15:15
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07763

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	4/26/22 19:13	4/26/22 19:13		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 10:56	4/25/22 10:56		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:12	4/25/22 13:12		1	0.0838	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:21	5/3/22 09:21		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 4/20/22 15:15
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BC07763

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 4/20/22 15:15
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BC07763

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 4/20/22 15:15
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BC07763

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07773	Solids, Dissolved	mg/L	0.0000	25.0			359	46.0	40.0 to 60.0			1.40	10.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP
Collected: 4/19/22 10:42
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07764

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 12:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 12:57		1.015	11.0	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:29	4/25/22 12:57		1.015	0.0169	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:29	4/25/22 12:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 12:57		1.015	6.76	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 12:57		1	7.49	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 12:57		1.015	3.50	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 12:57		1.015	2.93	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:14		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:23	4/27/22 11:14		1.015	10.4	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:14		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:14		1.015	7.06	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:14		1	7.53	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:14		1.015	3.52	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:14		1.015	3.18	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.0516	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.000269	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.0148	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.000187	mg/L	0.000068	0.000203	J
* Chromium, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.000481	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.000185	mg/L	0.000068	0.000203	J
* Lead, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.0000746	mg/L	0.000068	0.000203	J
* Manganese, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.0534	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.000132	mg/L	0.000102	0.000203	J
* Potassium, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.261	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP
Collected: 4/19/22 10:42
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07764

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:42		1.015	0.0000856	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	0.0136	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	0.000119	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	0.000485	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	0.0249	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	0.000138	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	0.247	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:10		1.015	0.0000741	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:13	4/28/22 13:13		1	0.863	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	57.1	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	67.3	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	56.7	mg/L			
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 19:33	4/26/22 19:33		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP
Collected: 4/19/22 10:42
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07764

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 10:57	4/25/22 10:57		1	3.80	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:13	4/25/22 13:13		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:22	5/3/22 09:22		1	2.25	mg/L	0.6	2	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	4/19/22 10:39	4/19/22 10:39			104.64	uS/cm			FA
pH	4/19/22 10:39	4/19/22 10:39			6.31	SU			FA
Temperature	4/19/22 10:39	4/19/22 10:39			17.79	C			FA
Turbidity	4/19/22 10:39	4/19/22 10:39			2.87	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 10:42
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BC07764

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07764	Chloride	mg/L	-0.0658	1.00	10.0	14.2	14.4	10.3	9.00 to 11.0	104	80.0 to 120	1.40	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07764	Fluoride	mg/L	0.0209	0.125	2.50	2.77	2.69	2.71	2.25 to 2.75	111	80.0 to 120	2.93	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 10:42
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BC07764

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC07764	Sulfate	mg/L	-0.0711	2.0	20.0	22.1	22.3	19.1	18.0 to 22.0	99.2	80.0 to 120	0.901	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 10:42
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BC07764

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07764	Total Organic Carbon	mg/L	0.240	1.00	10.0	10.2	10.7	24.4		102	80.0 to 120	4.78	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 10:42
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BC07764

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC07764	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.89	0.839	2.19	1.80 to 2.20	101	90.0 to 110	2.82	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-42 Dup

Location Code: WMWGASAP
Collected: 4/19/22 10:42
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07765

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 13:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 13:00		1.015	11.3	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:29	4/25/22 13:00		1.015	0.0169	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:29	4/25/22 13:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 13:00		1.015	6.90	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:00		1	7.58	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:00		1.015	3.54	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 13:00		1.015	2.93	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:23	4/27/22 11:17		1.015	10.8	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:17		1.015	7.10	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:17		1	7.47	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:17		1.015	3.49	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:17		1.015	3.08	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 15:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.0559	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.000294	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.0154	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 15:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.000232	mg/L	0.000068	0.000203	
* Chromium, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.000598	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.000222	mg/L	0.000068	0.000203	
* Lead, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.0000861	mg/L	0.000068	0.000203	J
* Manganese, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.0525	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 15:46		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.262	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-42 Dup

Location Code: WMWGASAP
Collected: 4/19/22 10:42
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07765

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 15:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 15:46		1.015	0.0000744	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	0.0000902	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	0.0144	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	0.000120	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	0.000432	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	0.0237	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	0.000122	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	0.236	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:14		1.015	0.0000720	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 21:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:22	4/28/22 13:22		1	0.817	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	57.1	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	68.0	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	56.7	mg/L			
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 20:54	4/26/22 20:54		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-42 Dup

Location Code: WMWGASAP
Collected: 4/19/22 10:42
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07765

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:16	4/25/22 11:16		1	3.82	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:25	4/25/22 13:25		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:33	5/3/22 09:33		1	2.53	mg/L	0.6	2	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	4/19/22 10:39	4/19/22 10:39			104.64	uS/cm			FA
pH	4/19/22 10:39	4/19/22 10:39			6.31	SU			FA
Temperature	4/19/22 10:39	4/19/22 10:39			17.79	C			FA
Turbidity	4/19/22 10:39	4/19/22 10:39			2.87	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 10:42
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-42 Dup

Laboratory ID Number: BC07765

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.106	0.105	0.102	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC07765	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.184	0.179	0.107	0.0850 to 0.115	128	70.0 to 130	2.75	20.0
BC07765	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0922	0.0906	0.0893	0.0850 to 0.115	92.2	70.0 to 130	1.75	20.0
BC07765	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.0943	0.0931	0.0952	0.0850 to 0.115	94.3	70.0 to 130	1.28	20.0
BC07765	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0967	0.0971	0.100	0.0850 to 0.115	96.6	70.0 to 130	0.413	20.0
BC07765	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0977	0.0994	0.0999	0.0850 to 0.115	97.4	70.0 to 130	1.73	20.0
BC07765	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.110	0.0973	0.0850 to 0.115	96.6	70.0 to 130	0.905	20.0
BC07765	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.113	0.113	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.00	20.0
BC07765	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0903	0.0894	0.0916	0.0850 to 0.115	90.3	70.0 to 130	1.00	20.0
BC07765	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0873	0.0870	0.0881	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC07765	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	1.01	1.01	1.01	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC07765	Boron, Total	mg/L	-0.000189	0.0650	1.00	1.02	1.01	1.02	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BC07765	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0995	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.50	20.0
BC07765	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	15.7	15.9	4.94	4.25 to 5.75	98.0	70.0 to 130	1.27	20.0
BC07765	Calcium, Total	mg/L	0.00189	0.152	5.00	16.4	16.0	4.93	4.25 to 5.75	102	70.0 to 130	2.47	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07765	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0993	0.0980	0.0997	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC07765	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.104	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BC07765	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07765	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07765	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.199	0.203	0.202	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 10:42
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-42 Dup

Laboratory ID Number: BC07765

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Iron, Total	mg/L	0.000093	0.0176	0.2	0.216	0.213	0.197	0.170 to 0.230	99.6	70.0 to 130	1.40	20.0
BC07765	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.0982	0.0985	0.0972	0.0850 to 0.115	98.2	70.0 to 130	0.305	20.0
BC07765	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.101	0.101	0.0996	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC07765	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.200	0.205	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BC07765	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.190	0.192	0.200	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BC07765	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	12.3	12.3	5.33	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC07765	Magnesium, Total	mg/L	0.00692	0.0462	5.00	11.9	11.8	5.12	4.25 to 5.75	100	70.0 to 130	0.844	20.0
BC07765	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.126	0.126	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC07765	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.157	0.154	0.106	0.0850 to 0.115	104	70.0 to 130	1.93	20.0
BC07765	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00384	0.00386	0.00385	0.00340 to 0.00460	96.0	70.0 to 130	0.519	20.0
BC07765	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0967	0.0980	0.0979	0.0850 to 0.115	96.6	70.0 to 130	1.34	20.0
BC07765	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BC07765	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	10.1	9.96	10.0	8.50 to 11.5	98.6	70.0 to 130	1.40	20.0
BC07765	Potassium, Total	mg/L	0.00286	0.367	10.0	10.5	10.3	10.3	8.50 to 11.5	102	70.0 to 130	1.92	20.0
BC07765	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.100	0.100	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07765	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07765	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.49	4.51	1.02	0.850 to 1.15	100	70.0 to 130	0.444	20.0
BC07765	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.54	4.54	1.00	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC07765	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	8.15	8.07	5.17	4.25 to 5.75	101	70.0 to 130	0.986	20.0
BC07765	Sodium, Total	mg/L	0.00342	0.0660	5.00	7.68	7.79	5.06	4.25 to 5.75	95.0	70.0 to 130	1.42	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07765	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.0996	0.101	0.0981	0.0850 to 0.115	99.5	70.0 to 130	1.40	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 10:42
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-42 Dup

Laboratory ID Number: BC07765

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07765	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 10:42
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-42 Dup

Laboratory ID Number: BC07765

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 4/19/22 12:01
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07766

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 13:14		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 13:14		1.015	23.3	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:29	4/25/22 13:14		1.015	0.0560	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:29	4/25/22 13:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 13:14		1.015	13.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:14		1	6.25	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:14		1.015	2.92	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 13:14		1.015	3.47	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:23	4/27/22 11:31		1.015	22.8	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:31		1.015	13.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:31		1	6.23	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:31		1.015	2.91	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:31		1.015	3.78	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 16:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 16:08		1.015	0.214	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 16:08		1.015	0.000194	mg/L	0.000081	0.000203	J
* Barium, Total	4/25/22 10:32	4/25/22 16:08		1.015	0.00686	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 16:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 16:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 16:08		1.015	0.000662	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 16:08		1.015	0.000132	mg/L	0.000068	0.000203	J
* Lead, Total	4/25/22 10:32	4/25/22 16:08		1.015	0.0000959	mg/L	0.000068	0.000203	J
* Manganese, Total	4/25/22 10:32	4/25/22 16:08		1.015	0.00500	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:08		1.015	0.000200	mg/L	0.000102	0.000203	J
* Potassium, Total	4/25/22 10:32	4/25/22 16:08		1.015	Not Detected	mg/L	0.169505	0.5075	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 4/19/22 12:01
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07766

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 16:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 16:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	0.0103	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	0.000113	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	0.00700	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	0.000446	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	0.000380	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 22:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:24	4/28/22 13:24		1	0.843	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	110	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	122	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	108	mg/L			
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	1.69	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 21:09	4/26/22 21:09		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 4/19/22 12:01
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07766

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/25/22 11:17	4/25/22 11:17		1	5.24	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/25/22 13:27	4/25/22 13:27		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 09:34	5/3/22 09:34		1	2.72	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/19/22 11:58	4/19/22 11:58			204.76	uS/cm			FA
pH	4/19/22 11:58	4/19/22 11:58			7.91	SU			FA
Temperature	4/19/22 11:58	4/19/22 11:58			17.51	C			FA
Turbidity	4/19/22 11:58	4/19/22 11:58			4.81	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:01
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BC07766

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.109	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	0.922	20.0
BC07773	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0880	0.0902	0.0893	0.0850 to 0.115	88.0	70.0 to 130	2.47	20.0
BC07773	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.100	0.100	0.0952	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07773	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0992	0.0992	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BC07773	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0992	0.0987	0.0999	0.0850 to 0.115	99.1	70.0 to 130	0.505	20.0
BC07773	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.113	0.0973	0.0850 to 0.115	93.7	70.0 to 130	1.79	20.0
BC07773	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.112	0.110	0.100	0.0850 to 0.115	94.9	70.0 to 130	1.80	20.0
BC07773	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0894	0.0892	0.0916	0.0850 to 0.115	89.4	70.0 to 130	0.224	20.0
BC07773	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0860	0.0860	0.0881	0.0850 to 0.115	86.0	70.0 to 130	0.00	20.0
BC07773	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	2.07	2.07	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC07773	Boron, Total	mg/L	-0.000189	0.0650	1.00	2.05	2.07	1.02	0.850 to 1.15	102	70.0 to 130	0.971	20.0
BC07773	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07773	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07773	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	70.9	69.3	4.94	4.25 to 5.75	158	70.0 to 130	2.28	20.0
BC07773	Calcium, Total	mg/L	0.00189	0.152	5.00	71.3	80.5	4.93	4.25 to 5.75	-38.0	70.0 to 130	12.1	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07773	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0974	0.0977	0.0997	0.0850 to 0.115	97.2	70.0 to 130	0.308	20.0
BC07773	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.101	0.0991	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC07773	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC07773	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07773	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.202	0.207	0.202	0.170 to 0.230	101	70.0 to 130	2.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:01
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BC07766

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Iron, Total	mg/L	0.000093	0.0176	0.2	0.201	0.204	0.197	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC07773	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.100	0.0996	0.0972	0.0850 to 0.115	100	70.0 to 130	0.401	20.0
BC07773	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0999	0.0986	0.0996	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC07773	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.202	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC07773	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.195	0.197	0.200	0.170 to 0.230	97.5	70.0 to 130	1.02	20.0
BC07773	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	36.8	36.7	5.33	4.25 to 5.75	102	70.0 to 130	0.272	20.0
BC07773	Magnesium, Total	mg/L	0.00692	0.0462	5.00	35.5	35.6	5.12	4.25 to 5.75	102	70.0 to 130	0.281	20.0
BC07773	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07773	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.105	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	1.92	20.0
BC07773	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00382	0.00384	0.00385	0.00340 to 0.00460	95.5	70.0 to 130	0.522	20.0
BC07773	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0993	0.0994	0.0979	0.0850 to 0.115	96.9	70.0 to 130	0.101	20.0
BC07773	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.995	20.0
BC07773	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	11.0	10.9	10.0	8.50 to 11.5	99.6	70.0 to 130	0.913	20.0
BC07773	Potassium, Total	mg/L	0.00286	0.367	10.0	11.1	10.9	10.3	8.50 to 11.5	101	70.0 to 130	1.82	20.0
BC07773	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07773	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.44	4.44	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC07773	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.36	4.37	1.00	0.850 to 1.15	98.0	70.0 to 130	0.229	20.0
BC07773	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	22.6	22.7	5.17	4.25 to 5.75	98.0	70.0 to 130	0.442	20.0
BC07773	Sodium, Total	mg/L	0.00342	0.0660	5.00	21.6	21.8	5.06	4.25 to 5.75	98.0	70.0 to 130	0.922	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07773	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.103	0.102	0.0981	0.0850 to 0.115	103	70.0 to 130	0.976	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:01
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BC07766

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.102	0.101	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 12:01
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BC07766

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP
Collected: 4/19/22 13:29
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07767

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 13:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 13:17		1.015	29.4	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:29	4/25/22 13:17		1.015	0.0293	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:29	4/25/22 13:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 13:17		1.015	16.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:17		1	6.55	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:17		1.015	3.06	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 13:17		1.015	0.946	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:34		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:23	4/27/22 11:34		1.015	29.1	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:34		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:34		1.015	17.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:34		1	6.61	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:34		1.015	3.09	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:34		1.015	1.04	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 16:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 16:11		1.015	0.0944	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 16:11		1.015	0.000138	mg/L	0.000081	0.000203	J
* Barium, Total	4/25/22 10:32	4/25/22 16:11		1.015	0.0185	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 16:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 16:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 16:11		1.015	0.000477	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 16:11		1.015	0.0000806	mg/L	0.000068	0.000203	J
* Lead, Total	4/25/22 10:32	4/25/22 16:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 16:11		1.015	0.0121	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:11		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/25/22 10:32	4/25/22 16:11		1.015	0.381	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP
Collected: 4/19/22 13:29
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07767

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 16:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 16:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	0.000130	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	0.0176	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	0.385	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 22:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:26	4/28/22 13:26		1	0.441	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	152	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	138	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	150	mg/L			
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	1.82	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 21:27	4/26/22 21:27		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP
Collected: 4/19/22 13:29
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07767

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/25/22 11:18	4/25/22 11:18		1	2.71	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/25/22 13:28	4/25/22 13:28		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 09:36	5/3/22 09:36		1	1.37	mg/L	0.6	2	J
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/19/22 13:26	4/19/22 13:26			242.68	uS/cm			FA
pH	4/19/22 13:26	4/19/22 13:26			6.80	SU			FA
Temperature	4/19/22 13:26	4/19/22 13:26			17.22	C			FA
Turbidity	4/19/22 13:26	4/19/22 13:26			4.09	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 13:29
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BC07767

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.109	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	0.922	20.0
BC07773	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0880	0.0902	0.0893	0.0850 to 0.115	88.0	70.0 to 130	2.47	20.0
BC07773	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.100	0.100	0.0952	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07773	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0992	0.0992	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BC07773	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0992	0.0987	0.0999	0.0850 to 0.115	99.1	70.0 to 130	0.505	20.0
BC07773	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.113	0.0973	0.0850 to 0.115	93.7	70.0 to 130	1.79	20.0
BC07773	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.112	0.110	0.100	0.0850 to 0.115	94.9	70.0 to 130	1.80	20.0
BC07773	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0894	0.0892	0.0916	0.0850 to 0.115	89.4	70.0 to 130	0.224	20.0
BC07773	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0860	0.0860	0.0881	0.0850 to 0.115	86.0	70.0 to 130	0.00	20.0
BC07773	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	2.07	2.07	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC07773	Boron, Total	mg/L	-0.000189	0.0650	1.00	2.05	2.07	1.02	0.850 to 1.15	102	70.0 to 130	0.971	20.0
BC07773	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07773	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07773	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	70.9	69.3	4.94	4.25 to 5.75	158	70.0 to 130	2.28	20.0
BC07773	Calcium, Total	mg/L	0.00189	0.152	5.00	71.3	80.5	4.93	4.25 to 5.75	-38.0	70.0 to 130	12.1	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07773	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0974	0.0977	0.0997	0.0850 to 0.115	97.2	70.0 to 130	0.308	20.0
BC07773	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.101	0.0991	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC07773	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC07773	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07773	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.202	0.207	0.202	0.170 to 0.230	101	70.0 to 130	2.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 13:29
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BC07767

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Iron, Total	mg/L	0.000093	0.0176	0.2	0.201	0.204	0.197	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC07773	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.100	0.0996	0.0972	0.0850 to 0.115	100	70.0 to 130	0.401	20.0
BC07773	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0999	0.0986	0.0996	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC07773	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.202	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC07773	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.195	0.197	0.200	0.170 to 0.230	97.5	70.0 to 130	1.02	20.0
BC07773	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	36.8	36.7	5.33	4.25 to 5.75	102	70.0 to 130	0.272	20.0
BC07773	Magnesium, Total	mg/L	0.00692	0.0462	5.00	35.5	35.6	5.12	4.25 to 5.75	102	70.0 to 130	0.281	20.0
BC07773	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07773	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.105	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	1.92	20.0
BC07773	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00382	0.00384	0.00385	0.00340 to 0.00460	95.5	70.0 to 130	0.522	20.0
BC07773	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0993	0.0994	0.0979	0.0850 to 0.115	96.9	70.0 to 130	0.101	20.0
BC07773	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.995	20.0
BC07773	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	11.0	10.9	10.0	8.50 to 11.5	99.6	70.0 to 130	0.913	20.0
BC07773	Potassium, Total	mg/L	0.00286	0.367	10.0	11.1	10.9	10.3	8.50 to 11.5	101	70.0 to 130	1.82	20.0
BC07773	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07773	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.44	4.44	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC07773	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.36	4.37	1.00	0.850 to 1.15	98.0	70.0 to 130	0.229	20.0
BC07773	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	22.6	22.7	5.17	4.25 to 5.75	98.0	70.0 to 130	0.442	20.0
BC07773	Sodium, Total	mg/L	0.00342	0.0660	5.00	21.6	21.8	5.06	4.25 to 5.75	98.0	70.0 to 130	0.922	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07773	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.103	0.102	0.0981	0.0850 to 0.115	103	70.0 to 130	0.976	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 13:29
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BC07767

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.102	0.101	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 13:29
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BC07767

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 4/19/22 14:33
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07768

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 13:20		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 13:20		1.015	21.6	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:29	4/25/22 13:20		1.015	0.0279	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:29	4/25/22 13:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 13:20		1.015	12.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:20		1	7.51	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:20		1.015	3.51	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 13:20		1.015	1.03	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:37		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:23	4/27/22 11:37		1.015	21.7	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:37		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:37		1.015	13.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:37		1	7.60	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:37		1.015	3.55	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:37		1.015	1.08	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 16:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 16:15		1.015	0.0861	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 16:15		1.015	0.000172	mg/L	0.000081	0.000203	J
* Barium, Total	4/25/22 10:32	4/25/22 16:15		1.015	0.00636	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 16:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 16:15		1.015	0.00106	mg/L	0.000203	0.001015	
* Cobalt, Total	4/25/22 10:32	4/25/22 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 16:15		1.015	0.00885	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:15		1.015	0.000115	mg/L	0.000102	0.000203	J
* Potassium, Total	4/25/22 10:32	4/25/22 16:15		1.015	0.276	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 4/19/22 14:33
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07768

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 16:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	0.00693	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	0.000140	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	0.00609	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	0.000880	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	0.00148	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	0.259	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 22:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:28	4/28/22 13:28		1	0.751	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	111	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	107	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	109	mg/L			
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	1.49	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 21:48	4/26/22 21:48		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 4/19/22 14:33
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07768

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:20	4/25/22 11:20		1	2.03	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:29	4/25/22 13:29		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:37	5/3/22 09:37		1	0.934	mg/L	0.6	2	J
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	4/19/22 14:30	4/19/22 14:30			183.46	uS/cm			FA
pH	4/19/22 14:30	4/19/22 14:30			7.68	SU			FA
Temperature	4/19/22 14:30	4/19/22 14:30			18.27	C			FA
Turbidity	4/19/22 14:30	4/19/22 14:30			3.86	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 14:33
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BC07768

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.109	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	0.922	20.0
BC07773	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0880	0.0902	0.0893	0.0850 to 0.115	88.0	70.0 to 130	2.47	20.0
BC07773	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.100	0.100	0.0952	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07773	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0992	0.0992	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BC07773	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0992	0.0987	0.0999	0.0850 to 0.115	99.1	70.0 to 130	0.505	20.0
BC07773	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.113	0.0973	0.0850 to 0.115	93.7	70.0 to 130	1.79	20.0
BC07773	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.112	0.110	0.100	0.0850 to 0.115	94.9	70.0 to 130	1.80	20.0
BC07773	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0894	0.0892	0.0916	0.0850 to 0.115	89.4	70.0 to 130	0.224	20.0
BC07773	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0860	0.0860	0.0881	0.0850 to 0.115	86.0	70.0 to 130	0.00	20.0
BC07773	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	2.07	2.07	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC07773	Boron, Total	mg/L	-0.000189	0.0650	1.00	2.05	2.07	1.02	0.850 to 1.15	102	70.0 to 130	0.971	20.0
BC07773	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07773	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07773	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	70.9	69.3	4.94	4.25 to 5.75	158	70.0 to 130	2.28	20.0
BC07773	Calcium, Total	mg/L	0.00189	0.152	5.00	71.3	80.5	4.93	4.25 to 5.75	-38.0	70.0 to 130	12.1	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07773	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0974	0.0977	0.0997	0.0850 to 0.115	97.2	70.0 to 130	0.308	20.0
BC07773	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.101	0.0991	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC07773	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC07773	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07773	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.202	0.207	0.202	0.170 to 0.230	101	70.0 to 130	2.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 14:33
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BC07768

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Iron, Total	mg/L	0.000093	0.0176	0.2	0.201	0.204	0.197	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC07773	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.100	0.0996	0.0972	0.0850 to 0.115	100	70.0 to 130	0.401	20.0
BC07773	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0999	0.0986	0.0996	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC07773	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.202	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC07773	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.195	0.197	0.200	0.170 to 0.230	97.5	70.0 to 130	1.02	20.0
BC07773	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	36.8	36.7	5.33	4.25 to 5.75	102	70.0 to 130	0.272	20.0
BC07773	Magnesium, Total	mg/L	0.00692	0.0462	5.00	35.5	35.6	5.12	4.25 to 5.75	102	70.0 to 130	0.281	20.0
BC07773	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07773	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.105	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	1.92	20.0
BC07773	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00382	0.00384	0.00385	0.00340 to 0.00460	95.5	70.0 to 130	0.522	20.0
BC07773	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0993	0.0994	0.0979	0.0850 to 0.115	96.9	70.0 to 130	0.101	20.0
BC07773	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.995	20.0
BC07773	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	11.0	10.9	10.0	8.50 to 11.5	99.6	70.0 to 130	0.913	20.0
BC07773	Potassium, Total	mg/L	0.00286	0.367	10.0	11.1	10.9	10.3	8.50 to 11.5	101	70.0 to 130	1.82	20.0
BC07773	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07773	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.44	4.44	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC07773	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.36	4.37	1.00	0.850 to 1.15	98.0	70.0 to 130	0.229	20.0
BC07773	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	22.6	22.7	5.17	4.25 to 5.75	98.0	70.0 to 130	0.442	20.0
BC07773	Sodium, Total	mg/L	0.00342	0.0660	5.00	21.6	21.8	5.06	4.25 to 5.75	98.0	70.0 to 130	0.922	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07773	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.103	0.102	0.0981	0.0850 to 0.115	103	70.0 to 130	0.976	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 14:33
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BC07768

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.102	0.101	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 14:33
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BC07768

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 4/19/22 15:30
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07769

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 13:23		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 13:23		1.015	36.4	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:29	4/25/22 13:23		1.015	0.335	mg/L	0.008120	0.0406	
* Lithium, Total	4/22/22 14:29	4/25/22 13:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 13:23		1.015	6.63	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:23		1	11.4	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:23		1.015	5.35	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 13:23		1.015	3.60	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/26/22 10:23	4/27/22 11:40		1.015	36.2	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:40		1.015	0.302	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:40		1.015	6.87	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:40		1	11.7	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:40		1.015	5.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:40		1.015	3.74	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 16:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 16:19		1.015	0.0120	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 16:19		1.015	0.000426	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 16:19		1.015	0.0279	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 16:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 16:19		1.015	0.000299	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 16:19		1.015	0.0593	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:19		1.015	0.000738	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 16:19		1.015	0.362	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 4/19/22 15:30
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07769

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 16:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	0.000332	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	0.0266	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	0.0576	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	0.000792	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	0.351	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 22:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:30	4/28/22 13:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/2/22 11:10	5/2/22 12:57		1	132	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	144	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	131	mg/L			
Carbonate Alkalinity, (calc.)	5/2/22 11:10	5/2/22 12:57		1	1.15	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 22:09	4/26/22 22:09		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 4/19/22 15:30
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07769

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/25/22 11:21	4/25/22 11:21		1	2.22	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/25/22 13:30	4/25/22 13:30		1	0.107	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 09:38	5/3/22 09:38		1	11.4	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/19/22 15:26	4/19/22 15:26			223.66	uS/cm			FA
pH	4/19/22 15:26	4/19/22 15:26			6.85	SU			FA
Temperature	4/19/22 15:26	4/19/22 15:26			18.45	C			FA
Turbidity	4/19/22 15:26	4/19/22 15:26			1.02	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 15:30
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BC07769

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.109	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	0.922	20.0
BC07773	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0880	0.0902	0.0893	0.0850 to 0.115	88.0	70.0 to 130	2.47	20.0
BC07773	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.100	0.100	0.0952	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07773	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0992	0.0992	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BC07773	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0992	0.0987	0.0999	0.0850 to 0.115	99.1	70.0 to 130	0.505	20.0
BC07773	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.113	0.0973	0.0850 to 0.115	93.7	70.0 to 130	1.79	20.0
BC07773	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.112	0.110	0.100	0.0850 to 0.115	94.9	70.0 to 130	1.80	20.0
BC07773	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0894	0.0892	0.0916	0.0850 to 0.115	89.4	70.0 to 130	0.224	20.0
BC07773	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0860	0.0860	0.0881	0.0850 to 0.115	86.0	70.0 to 130	0.00	20.0
BC07773	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	2.07	2.07	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC07773	Boron, Total	mg/L	-0.000189	0.0650	1.00	2.05	2.07	1.02	0.850 to 1.15	102	70.0 to 130	0.971	20.0
BC07773	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07773	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07773	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	70.9	69.3	4.94	4.25 to 5.75	158	70.0 to 130	2.28	20.0
BC07773	Calcium, Total	mg/L	0.00189	0.152	5.00	71.3	80.5	4.93	4.25 to 5.75	-38.0	70.0 to 130	12.1	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07773	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0974	0.0977	0.0997	0.0850 to 0.115	97.2	70.0 to 130	0.308	20.0
BC07773	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.101	0.0991	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC07773	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC07773	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07773	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.202	0.207	0.202	0.170 to 0.230	101	70.0 to 130	2.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 15:30
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BC07769

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Iron, Total	mg/L	0.000093	0.0176	0.2	0.201	0.204	0.197	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC07773	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.100	0.0996	0.0972	0.0850 to 0.115	100	70.0 to 130	0.401	20.0
BC07773	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0999	0.0986	0.0996	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC07773	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.202	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC07773	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.195	0.197	0.200	0.170 to 0.230	97.5	70.0 to 130	1.02	20.0
BC07773	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	36.8	36.7	5.33	4.25 to 5.75	102	70.0 to 130	0.272	20.0
BC07773	Magnesium, Total	mg/L	0.00692	0.0462	5.00	35.5	35.6	5.12	4.25 to 5.75	102	70.0 to 130	0.281	20.0
BC07773	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07773	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.105	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	1.92	20.0
BC07773	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00382	0.00384	0.00385	0.00340 to 0.00460	95.5	70.0 to 130	0.522	20.0
BC07773	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0993	0.0994	0.0979	0.0850 to 0.115	96.9	70.0 to 130	0.101	20.0
BC07773	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.995	20.0
BC07773	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	11.0	10.9	10.0	8.50 to 11.5	99.6	70.0 to 130	0.913	20.0
BC07773	Potassium, Total	mg/L	0.00286	0.367	10.0	11.1	10.9	10.3	8.50 to 11.5	101	70.0 to 130	1.82	20.0
BC07773	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07773	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.44	4.44	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC07773	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.36	4.37	1.00	0.850 to 1.15	98.0	70.0 to 130	0.229	20.0
BC07773	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	22.6	22.7	5.17	4.25 to 5.75	98.0	70.0 to 130	0.442	20.0
BC07773	Sodium, Total	mg/L	0.00342	0.0660	5.00	21.6	21.8	5.06	4.25 to 5.75	98.0	70.0 to 130	0.922	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07773	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.103	0.102	0.0981	0.0850 to 0.115	103	70.0 to 130	0.976	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/19/22 15:30
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BC07769

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.102	0.101	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/19/22 15:30
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BC07769

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07769	Alkalinity, Total as CaCO3	mg/L					122	51.0	45.0 to 55.0			7.87	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-1

Location Code: WMWGASAPFB
Collected: 4/19/22 16:05
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07770

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 13:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/22/22 14:29	4/25/22 13:26		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/22/22 14:29	4/25/22 13:26		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:29	4/25/22 13:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 13:26		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:26		1	Not Detected	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:26		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/22/22 14:29	4/25/22 13:26		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 16:22		1.015	0.000359	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 16:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 22:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:32	4/28/22 13:32		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-1

Location Code: WMWGASAPFB
Collected: 4/19/22 16:05
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07770

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	4/26/22 22:26	4/26/22 22:26		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:22	4/25/22 11:22		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:31	4/25/22 13:31		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:39	5/3/22 09:39		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 4/19/22 16:05
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BC07770

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.109	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	0.922	20.0
BC07773	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.100	0.100	0.0952	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07773	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0992	0.0987	0.0999	0.0850 to 0.115	99.1	70.0 to 130	0.505	20.0
BC07773	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.112	0.110	0.100	0.0850 to 0.115	94.9	70.0 to 130	1.80	20.0
BC07773	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0860	0.0860	0.0881	0.0850 to 0.115	86.0	70.0 to 130	0.00	20.0
BC07773	Boron, Total	mg/L	-0.000189	0.0650	1.00	2.05	2.07	1.02	0.850 to 1.15	102	70.0 to 130	0.971	20.0
BC07773	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07773	Calcium, Total	mg/L	0.00189	0.152	5.00	71.3	80.5	4.93	4.25 to 5.75	-38.0	70.0 to 130	12.1	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07773	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.101	0.0991	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC07773	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07773	Iron, Total	mg/L	0.000093	0.0176	0.2	0.201	0.204	0.197	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC07773	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0999	0.0986	0.0996	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC07773	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.195	0.197	0.200	0.170 to 0.230	97.5	70.0 to 130	1.02	20.0
BC07773	Magnesium, Total	mg/L	0.00692	0.0462	5.00	35.5	35.6	5.12	4.25 to 5.75	102	70.0 to 130	0.281	20.0
BC07773	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.105	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	1.92	20.0
BC07773	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00382	0.00384	0.00385	0.00340 to 0.00460	95.5	70.0 to 130	0.522	20.0
BC07773	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.995	20.0
BC07773	Potassium, Total	mg/L	0.00286	0.367	10.0	11.1	10.9	10.3	8.50 to 11.5	101	70.0 to 130	1.82	20.0
BC07773	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07773	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.36	4.37	1.00	0.850 to 1.15	98.0	70.0 to 130	0.229	20.0
BC07773	Sodium, Total	mg/L	0.00342	0.0660	5.00	21.6	21.8	5.06	4.25 to 5.75	98.0	70.0 to 130	0.922	20.0

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 4/19/22 16:05
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BC07770

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07773	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.102	0.101	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 4/19/22 16:05
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BC07770

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 4/20/22 10:52
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07771

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***					***Preparation Method: EPA 1638***			
* Boron, Total	4/22/22 14:29	4/25/22 13:29		1.015	1.46	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 13:29		1.015	34.4	mg/L	0.070035	0.406	
* Iron, Total	4/22/22 14:29	4/25/22 13:29		1.015	0.0190	mg/L	0.008120	0.0406	J
* Lithium, Total	4/22/22 14:29	4/25/22 13:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 14:10		10.15	49.0	mg/L	0.21315	4.06	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:29		1	11.1	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:29		1.015	5.17	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 13:29		1.015	24.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:43		1.015	1.48	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 11:43		1.015	34.0	mg/L	0.070035	0.406	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:43		1.015	0.0164	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 12:24		10.15	45.5	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:43		1	11.2	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:43		1.015	5.23	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:43		1.015	26.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***					***Preparation Method: EPA 1638***			
* Antimony, Total	4/25/22 10:32	4/25/22 16:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 16:26		1.015	0.0121	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 16:26		1.015	0.00196	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 16:26		1.015	0.0399	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 16:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 16:26		1.015	0.000293	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 16:26		1.015	0.00689	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:26		1.015	0.00098	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 16:26		1.015	4.43	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 4/20/22 10:52
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07771

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 16:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	0.00855	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	0.00178	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	0.0409	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	0.00674	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	0.00108	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	4.55	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 22:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:34	4/28/22 13:34		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/3/22 14:10	5/3/22 15:33		1	212	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	320	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	210	mg/L			
Carbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	1.93	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 22:42	4/26/22 22:42		1	1.44	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 4/20/22 10:52
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07771

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:43	4/25/22 11:43		10	56.9	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:33	4/25/22 13:33		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:48	5/3/22 09:48		2	42.6	mg/L	1.2	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	4/20/22 10:48	4/20/22 10:48			581.95	uS/cm			FA
pH	4/20/22 10:48	4/20/22 10:48			7.86	SU			FA
Temperature	4/20/22 10:48	4/20/22 10:48			19.86	C			FA
Turbidity	4/20/22 10:48	4/20/22 10:48			2.02	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:52
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BC07771

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.109	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	0.922	20.0
BC07773	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0880	0.0902	0.0893	0.0850 to 0.115	88.0	70.0 to 130	2.47	20.0
BC07773	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.100	0.100	0.0952	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07773	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0992	0.0992	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BC07773	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0992	0.0987	0.0999	0.0850 to 0.115	99.1	70.0 to 130	0.505	20.0
BC07773	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.113	0.0973	0.0850 to 0.115	93.7	70.0 to 130	1.79	20.0
BC07773	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.112	0.110	0.100	0.0850 to 0.115	94.9	70.0 to 130	1.80	20.0
BC07773	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0894	0.0892	0.0916	0.0850 to 0.115	89.4	70.0 to 130	0.224	20.0
BC07773	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0860	0.0860	0.0881	0.0850 to 0.115	86.0	70.0 to 130	0.00	20.0
BC07773	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	2.07	2.07	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC07773	Boron, Total	mg/L	-0.000189	0.0650	1.00	2.05	2.07	1.02	0.850 to 1.15	102	70.0 to 130	0.971	20.0
BC07773	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07773	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07773	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	70.9	69.3	4.94	4.25 to 5.75	158	70.0 to 130	2.28	20.0
BC07773	Calcium, Total	mg/L	0.00189	0.152	5.00	71.3	80.5	4.93	4.25 to 5.75	-38.0	70.0 to 130	12.1	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07773	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0974	0.0977	0.0997	0.0850 to 0.115	97.2	70.0 to 130	0.308	20.0
BC07773	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.101	0.0991	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC07773	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC07773	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07773	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.202	0.207	0.202	0.170 to 0.230	101	70.0 to 130	2.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:52
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BC07771

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Iron, Total	mg/L	0.000093	0.0176	0.2	0.201	0.204	0.197	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC07773	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.100	0.0996	0.0972	0.0850 to 0.115	100	70.0 to 130	0.401	20.0
BC07773	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0999	0.0986	0.0996	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC07773	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.202	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC07773	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.195	0.197	0.200	0.170 to 0.230	97.5	70.0 to 130	1.02	20.0
BC07773	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	36.8	36.7	5.33	4.25 to 5.75	102	70.0 to 130	0.272	20.0
BC07773	Magnesium, Total	mg/L	0.00692	0.0462	5.00	35.5	35.6	5.12	4.25 to 5.75	102	70.0 to 130	0.281	20.0
BC07773	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07773	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.105	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	1.92	20.0
BC07773	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00382	0.00384	0.00385	0.00340 to 0.00460	95.5	70.0 to 130	0.522	20.0
BC07773	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0993	0.0994	0.0979	0.0850 to 0.115	96.9	70.0 to 130	0.101	20.0
BC07773	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.995	20.0
BC07773	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	11.0	10.9	10.0	8.50 to 11.5	99.6	70.0 to 130	0.913	20.0
BC07773	Potassium, Total	mg/L	0.00286	0.367	10.0	11.1	10.9	10.3	8.50 to 11.5	101	70.0 to 130	1.82	20.0
BC07773	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07773	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.44	4.44	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC07773	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.36	4.37	1.00	0.850 to 1.15	98.0	70.0 to 130	0.229	20.0
BC07773	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	22.6	22.7	5.17	4.25 to 5.75	98.0	70.0 to 130	0.442	20.0
BC07773	Sodium, Total	mg/L	0.00342	0.0660	5.00	21.6	21.8	5.06	4.25 to 5.75	98.0	70.0 to 130	0.922	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07773	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.103	0.102	0.0981	0.0850 to 0.115	103	70.0 to 130	0.976	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:52
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BC07771

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.102	0.101	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/20/22 10:52
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BC07771

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Alkalinity, Total as CaCO3	mg/L					201	50.8	45.0 to 55.0			1.50	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 4/20/22 12:01
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07772

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 13:32		1.015	0.584	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 14:12		10.15	62.9	mg/L	0.70035	4.06	
* Iron, Total	4/22/22 14:29	4/25/22 13:32		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:29	4/25/22 13:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 13:32		1.015	24.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:32		1	6.06	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:32		1.015	2.83	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 13:32		1.015	10.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:46		1.015	0.586	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:27		10.15	59.1	mg/L	0.70035	4.06	
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:46		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:46		1.015	25.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:46		1	6.16	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:46		1.015	2.88	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:46		1.015	10.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 16:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 16:29		1.015	0.0110	mg/L	0.006090	0.01015	
* Arsenic, Total	4/25/22 10:32	4/25/22 16:29		1.015	0.000276	mg/L	0.000081	0.000203	
* Barium, Total	4/25/22 10:32	4/25/22 16:29		1.015	0.0279	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 16:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 16:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 16:29		1.015	0.000256	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 16:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 16:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 16:29		1.015	0.00144	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:29		1.015	0.0172	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 16:29		1.015	0.982	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 4/20/22 12:01
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07772

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 16:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 16:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	0.000175	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	0.0254	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	0.000279	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	0.0172	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	1.01	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 22:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:35	4/28/22 13:35		1	0.832	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/3/22 14:10	5/3/22 15:33		1	185	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/22/22 11:25	4/25/22 13:57		1	276	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	184	mg/L			
Carbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	1.14	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 23:03	4/26/22 23:03		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 4/20/22 12:01
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07772

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:44	4/25/22 11:44		2	23.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:34	4/25/22 13:34		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:49	5/3/22 09:49		2	40.1	mg/L	1.2	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	4/20/22 11:58	4/20/22 11:58			465.44	uS/cm			FA
pH	4/20/22 11:58	4/20/22 11:58			6.43	SU			FA
Temperature	4/20/22 11:58	4/20/22 11:58			19.41	C			FA
Turbidity	4/20/22 11:58	4/20/22 11:58			1.23	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 12:01
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BC07772

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.109	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	0.922	20.0
BC07773	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0880	0.0902	0.0893	0.0850 to 0.115	88.0	70.0 to 130	2.47	20.0
BC07773	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.100	0.100	0.0952	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07773	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0992	0.0992	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BC07773	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0992	0.0987	0.0999	0.0850 to 0.115	99.1	70.0 to 130	0.505	20.0
BC07773	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.113	0.0973	0.0850 to 0.115	93.7	70.0 to 130	1.79	20.0
BC07773	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.112	0.110	0.100	0.0850 to 0.115	94.9	70.0 to 130	1.80	20.0
BC07773	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0894	0.0892	0.0916	0.0850 to 0.115	89.4	70.0 to 130	0.224	20.0
BC07773	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0860	0.0860	0.0881	0.0850 to 0.115	86.0	70.0 to 130	0.00	20.0
BC07773	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	2.07	2.07	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC07773	Boron, Total	mg/L	-0.000189	0.0650	1.00	2.05	2.07	1.02	0.850 to 1.15	102	70.0 to 130	0.971	20.0
BC07773	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07773	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07773	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	70.9	69.3	4.94	4.25 to 5.75	158	70.0 to 130	2.28	20.0
BC07773	Calcium, Total	mg/L	0.00189	0.152	5.00	71.3	80.5	4.93	4.25 to 5.75	-38.0	70.0 to 130	12.1	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07773	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0974	0.0977	0.0997	0.0850 to 0.115	97.2	70.0 to 130	0.308	20.0
BC07773	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.101	0.0991	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC07773	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC07773	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07773	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.202	0.207	0.202	0.170 to 0.230	101	70.0 to 130	2.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 12:01
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BC07772

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Iron, Total	mg/L	0.000093	0.0176	0.2	0.201	0.204	0.197	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC07773	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.100	0.0996	0.0972	0.0850 to 0.115	100	70.0 to 130	0.401	20.0
BC07773	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0999	0.0986	0.0996	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC07773	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.202	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC07773	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.195	0.197	0.200	0.170 to 0.230	97.5	70.0 to 130	1.02	20.0
BC07773	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	36.8	36.7	5.33	4.25 to 5.75	102	70.0 to 130	0.272	20.0
BC07773	Magnesium, Total	mg/L	0.00692	0.0462	5.00	35.5	35.6	5.12	4.25 to 5.75	102	70.0 to 130	0.281	20.0
BC07773	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07773	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.105	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	1.92	20.0
BC07773	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00382	0.00384	0.00385	0.00340 to 0.00460	95.5	70.0 to 130	0.522	20.0
BC07773	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0993	0.0994	0.0979	0.0850 to 0.115	96.9	70.0 to 130	0.101	20.0
BC07773	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.995	20.0
BC07773	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	11.0	10.9	10.0	8.50 to 11.5	99.6	70.0 to 130	0.913	20.0
BC07773	Potassium, Total	mg/L	0.00286	0.367	10.0	11.1	10.9	10.3	8.50 to 11.5	101	70.0 to 130	1.82	20.0
BC07773	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07773	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.44	4.44	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC07773	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.36	4.37	1.00	0.850 to 1.15	98.0	70.0 to 130	0.229	20.0
BC07773	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	22.6	22.7	5.17	4.25 to 5.75	98.0	70.0 to 130	0.442	20.0
BC07773	Sodium, Total	mg/L	0.00342	0.0660	5.00	21.6	21.8	5.06	4.25 to 5.75	98.0	70.0 to 130	0.922	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07773	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.103	0.102	0.0981	0.0850 to 0.115	103	70.0 to 130	0.976	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 12:01
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BC07772

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.102	0.101	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/20/22 12:01
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BC07772

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Alkalinity, Total as CaCO3	mg/L					201	50.8	45.0 to 55.0			1.50	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07772	Solids, Dissolved	mg/L	0.0000	25.0			279	54.0	40.0 to 60.0			1.08	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 4/20/22 13:36
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07773

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/22/22 14:29	4/25/22 13:35		1.015	1.03	mg/L	0.030000	0.1015	
* Calcium, Total	4/22/22 14:29	4/25/22 14:15		10.15	73.2	mg/L	0.70035	4.06	RA
* Iron, Total	4/22/22 14:29	4/25/22 13:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/22/22 14:29	4/25/22 13:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/22/22 14:29	4/25/22 13:35		1.015	30.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/22/22 14:29	4/25/22 13:35		1	7.23	mg/L			
Silicon, Total	4/22/22 14:29	4/25/22 13:35		1.015	3.38	mg/L	0.02030	0.25375	
* Sodium, Total	4/22/22 14:29	4/25/22 13:35		1.015	16.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	4/26/22 10:23	4/27/22 11:49		1.015	1.03	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/26/22 10:23	4/27/22 12:29		10.15	63.0	mg/L	0.70035	4.06	RA
* Iron, Dissolved	4/26/22 10:23	4/27/22 11:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/26/22 10:23	4/27/22 11:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/26/22 10:23	4/27/22 11:49		1.015	31.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/26/22 10:23	4/27/22 11:49		1	7.30	mg/L			
Silicon, Dissolved	4/26/22 10:23	4/27/22 11:49		1.015	3.41	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/26/22 10:23	4/27/22 11:49		1.015	17.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/25/22 10:32	4/25/22 16:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/25/22 10:32	4/25/22 16:33		1.015	0.00625	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/25/22 10:32	4/25/22 16:33		1.015	0.000116	mg/L	0.000081	0.000203	J
* Barium, Total	4/25/22 10:32	4/25/22 16:33		1.015	0.0171	mg/L	0.000508	0.001015	
* Beryllium, Total	4/25/22 10:32	4/25/22 16:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/25/22 10:32	4/25/22 16:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/25/22 10:32	4/25/22 16:33		1.015	0.000377	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/25/22 10:32	4/25/22 16:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/25/22 10:32	4/25/22 16:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/25/22 10:32	4/25/22 16:33		1.015	0.000633	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/25/22 10:32	4/25/22 16:33		1.015	0.00235	mg/L	0.000102	0.000203	
* Potassium, Total	4/25/22 10:32	4/25/22 16:33		1.015	1.04	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 4/20/22 13:36
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07773

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/25/22 10:32	4/25/22 16:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/25/22 10:32	4/25/22 16:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	0.000160	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	0.0173	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	0.000218	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	0.000255	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	0.00242	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	1.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/25/22 10:40	4/25/22 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	4/27/22 17:14	4/27/22 22:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:37	4/28/22 13:37		1	1.46	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/3/22 14:10	5/3/22 15:33		1	198	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/26/22 10:33	4/27/22 13:27		1	354	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	196	mg/L			
Carbonate Alkalinity, (calc.)	5/3/22 14:10	5/3/22 15:33		1	2.21	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	4/26/22 23:20	4/26/22 23:20		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 4/20/22 13:36
Customer ID:
Submittal Date: 4/21/22 09:52

Laboratory ID Number: BC07773

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/25/22 11:45	4/25/22 11:45		5	22.3	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/25/22 13:35	4/25/22 13:35		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 09:50	5/3/22 09:50		4	93.7	mg/L	2.4	8	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	4/20/22 13:33	4/20/22 13:33			566.26	uS/cm			FA
pH	4/20/22 13:33	4/20/22 13:33			6.87	SU			FA
Temperature	4/20/22 13:33	4/20/22 13:33			17.97	C			FA
Turbidity	4/20/22 13:33	4/20/22 13:33			0.72	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 13:36
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BC07773

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Aluminum, Dissolved	mg/L	0.00362	0.010	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Aluminum, Total	mg/L	0.00139	0.010	0.100	0.109	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	0.922	20.0
BC07773	Antimony, Dissolved	mg/L	0.000308	0.00100	0.100	0.0880	0.0902	0.0893	0.0850 to 0.115	88.0	70.0 to 130	2.47	20.0
BC07773	Antimony, Total	mg/L	0.0005	0.00100	0.100	0.100	0.100	0.0952	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC07773	Arsenic, Dissolved	mg/L	0.0000506	0.000176	0.100	0.0992	0.0992	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.00	20.0
BC07773	Arsenic, Total	mg/L	0.0000788	0.000176	0.100	0.0992	0.0987	0.0999	0.0850 to 0.115	99.1	70.0 to 130	0.505	20.0
BC07773	Barium, Dissolved	mg/L	0.0000271	0.00100	0.100	0.111	0.113	0.0973	0.0850 to 0.115	93.7	70.0 to 130	1.79	20.0
BC07773	Barium, Total	mg/L	-0.0000003	0.00100	0.100	0.112	0.110	0.100	0.0850 to 0.115	94.9	70.0 to 130	1.80	20.0
BC07773	Beryllium, Dissolved	mg/L	0.0000678	0.000880	0.100	0.0894	0.0892	0.0916	0.0850 to 0.115	89.4	70.0 to 130	0.224	20.0
BC07773	Beryllium, Total	mg/L	0.0000902	0.000880	0.100	0.0860	0.0860	0.0881	0.0850 to 0.115	86.0	70.0 to 130	0.00	20.0
BC07773	Boron, Dissolved	mg/L	-0.000079	0.0650	1.00	2.07	2.07	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC07773	Boron, Total	mg/L	-0.000189	0.0650	1.00	2.05	2.07	1.02	0.850 to 1.15	102	70.0 to 130	0.971	20.0
BC07773	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC07773	Cadmium, Total	mg/L	0.0000151	0.000147	0.100	0.100	0.101	0.103	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC07773	Calcium, Dissolved	mg/L	0.00561	0.152	5.00	70.9	69.3	4.94	4.25 to 5.75	158	70.0 to 130	2.28	20.0
BC07773	Calcium, Total	mg/L	0.00189	0.152	5.00	71.3	80.5	4.93	4.25 to 5.75	-38.0	70.0 to 130	12.1	20.0
BC07773	Chloride	mg/L	-0.035	1.00	50.0	78.7	75.3	10.3	9.00 to 11.0	113	80.0 to 120	4.42	20.0
BC07773	Chromium, Dissolved	mg/L	0.0000158	0.000440	0.100	0.0974	0.0977	0.0997	0.0850 to 0.115	97.2	70.0 to 130	0.308	20.0
BC07773	Chromium, Total	mg/L	0.0000384	0.000440	0.100	0.101	0.0991	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BC07773	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC07773	Cobalt, Total	mg/L	0.0000044	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC07773	Fluoride	mg/L	-0.0167	0.125	2.50	2.69	2.69	2.72	2.25 to 2.75	108	80.0 to 120	0.00	20.0
BC07773	Iron, Dissolved	mg/L	-0.000056	0.0176	0.2	0.202	0.207	0.202	0.170 to 0.230	101	70.0 to 130	2.44	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 13:36
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BC07773

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Iron, Total	mg/L	0.000093	0.0176	0.2	0.201	0.204	0.197	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC07773	Lead, Dissolved	mg/L	0.000011	0.000147	0.100	0.100	0.0996	0.0972	0.0850 to 0.115	100	70.0 to 130	0.401	20.0
BC07773	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0999	0.0986	0.0996	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BC07773	Lithium, Dissolved	mg/L	0.000183	0.0154	0.200	0.202	0.202	0.205	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BC07773	Lithium, Total	mg/L	0.000143	0.0154	0.200	0.195	0.197	0.200	0.170 to 0.230	97.5	70.0 to 130	1.02	20.0
BC07773	Magnesium, Dissolved	mg/L	-0.00157	0.0462	5.00	36.8	36.7	5.33	4.25 to 5.75	102	70.0 to 130	0.272	20.0
BC07773	Magnesium, Total	mg/L	0.00692	0.0462	5.00	35.5	35.6	5.12	4.25 to 5.75	102	70.0 to 130	0.281	20.0
BC07773	Manganese, Dissolved	mg/L	0.0000115	0.0002	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC07773	Manganese, Total	mg/L	0.000029	0.0002	0.100	0.105	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	1.92	20.0
BC07773	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00382	0.00384	0.00385	0.00340 to 0.00460	95.5	70.0 to 130	0.522	20.0
BC07773	Molybdenum, Dissolved	mg/L	-0.0000002	0.0002	0.100	0.0993	0.0994	0.0979	0.0850 to 0.115	96.9	70.0 to 130	0.101	20.0
BC07773	Molybdenum, Total	mg/L	0.0000563	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.995	20.0
BC07773	Potassium, Dissolved	mg/L	0.00954	0.367	10.0	11.0	10.9	10.0	8.50 to 11.5	99.6	70.0 to 130	0.913	20.0
BC07773	Potassium, Total	mg/L	0.00286	0.367	10.0	11.1	10.9	10.3	8.50 to 11.5	101	70.0 to 130	1.82	20.0
BC07773	Selenium, Dissolved	mg/L	0.0000747	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC07773	Selenium, Total	mg/L	0.000114	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC07773	Silicon, Dissolved	mg/L	-0.000265	0.0440	1.00	4.44	4.44	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC07773	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.36	4.37	1.00	0.850 to 1.15	98.0	70.0 to 130	0.229	20.0
BC07773	Sodium, Dissolved	mg/L	0.000541	0.0660	5.00	22.6	22.7	5.17	4.25 to 5.75	98.0	70.0 to 130	0.442	20.0
BC07773	Sodium, Total	mg/L	0.00342	0.0660	5.00	21.6	21.8	5.06	4.25 to 5.75	98.0	70.0 to 130	0.922	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC07773	Thallium, Dissolved	mg/L	0.0000012	0.000147	0.100	0.103	0.102	0.0981	0.0850 to 0.115	103	70.0 to 130	0.976	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/20/22 13:36
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BC07773

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Thallium, Total	mg/L	0.0000049	0.000147	0.100	0.104	0.102	0.101	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC07773	Total Organic Carbon	mg/L	0.250	1.00	10.0	10.1	10.3	24.7		101	80.0 to 120	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/20/22 13:36
Customer ID:
Delivery Date: 4/21/22 09:52

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BC07773

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07773	Alkalinity, Total as CaCO3	mg/L					201	50.8	45.0 to 55.0			1.50	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC07773	Solids, Dissolved	mg/L	0.0000	25.0			359	46.0	40.0 to 60.0			1.40	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 4/26/22 10:15
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08175

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:29		1.015	0.162	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 09:29		1.015	27.9	mg/L	0.070035	0.406	
* Iron, Total	5/2/22 11:25	5/3/22 09:29		1.015	0.0308	mg/L	0.008120	0.0406	J
* Lithium, Total	5/2/22 11:25	5/3/22 09:29		1.015	0.0180	mg/L	0.007105	0.01999956	J
* Magnesium, Total	5/2/22 11:25	5/3/22 09:29		1.015	21.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:29		1	7.08	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:29		1.015	3.31	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:42		10.15	181	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:31		1.015	0.165	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 09:31		1.015	28.8	mg/L	0.070035	0.406	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:31		1.015	0.0154	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:31		1.015	0.0200	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 09:31		1.015	21.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:31		1	7.34	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:31		1.015	3.43	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 12:22		10.15	153	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:02		1.015	0.0137	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 15:02		1.015	0.00212	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:02		1.015	0.0799	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/29/22 09:09	4/29/22 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:02		1.015	0.0383	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:02		1.015	0.0459	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:02		1.015	47.0	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 4/26/22 10:15
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08175

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	0.00857	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	0.00175	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	0.0894	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	0.0387	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	0.0387	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	47.7	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	0.00463	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:39	4/28/22 13:39		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/9/22 12:05	5/9/22 13:20		1	293	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	596	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	289	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	3.93	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 15:14	5/3/22 15:14		1	5.68	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 4/26/22 10:15
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08175

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 09:30	4/29/22 09:30		16	137	mg/L	8.00	16	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 11:15	4/29/22 11:15		1	0.436	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:01	5/3/22 10:01		10	165	mg/L	6.0	20	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/26/22 10:12	4/26/22 10:12			1201.23	uS/cm			FA
pH	4/26/22 10:12	4/26/22 10:12			8.03	SU			FA
Temperature	4/26/22 10:12	4/26/22 10:12			19.55	C			FA
Turbidity	4/26/22 10:12	4/26/22 10:12			2.12	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 10:15
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BC08175

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 10:15
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BC08175

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08175	Sulfate	mg/L	-0.089	2.0	200	361	369	19.5	18.0 to 22.0	98.0	80.0 to 120	2.19	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 10:15
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BC08175

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/26/22 10:15
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BC08175

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Alkalinity, Total as CaCO3	mg/L					56.7	50.6	45.0 to 55.0			7.88	10.0
BC08175	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.06	0.035	2.04	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BC08178	Solids, Dissolved	mg/L	1.00	25.0			420	52.0	40.0 to 60.0			3.05	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 4/26/22 11:43
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08176

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:32		1.015	0.129	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 10:45		10.15	61.6	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 09:32		1.015	0.136	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 09:32		1.015	0.0711	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 09:32		1.015	22.0	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:32		1	13.2	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:32		1.015	6.16	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 09:32		1.015	40.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:34		1.015	0.131	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:25		10.15	51.8	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:34		1.015	0.0721	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:34		1.015	0.0745	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 09:34		1.015	22.1	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:34		1	13.5	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:34		1.015	6.29	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 09:34		1.015	39.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:05		1.015	0.0161	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 15:05		1.015	0.0135	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:05		1.015	0.0461	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:05		1.015	0.000324	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 15:05		1.015	0.0000756	mg/L	0.000068	0.000203	J
* Lead, Total	4/29/22 09:09	4/29/22 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:05		1.015	0.122	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:05		1.015	0.0292	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:05		1.015	4.26	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 4/26/22 11:43
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08176

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	0.0102	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	0.0110	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	0.0466	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	0.000219	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	0.119	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	0.0192	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	4.25	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	0.00222	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:48	4/28/22 13:48		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/9/22 12:05	5/9/22 13:20		1	301	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	303	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	300	mg/L			
Carbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	1.20	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 15:30	5/3/22 15:30		1	5.59	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 4/26/22 11:43
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08176

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 09:17	4/29/22 09:17		1	18.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 11:16	4/29/22 11:16		1	0.177	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:13	5/3/22 10:13		1	36.8	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/26/22 11:40	4/26/22 11:40			528.67	uS/cm			FA
pH	4/26/22 11:40	4/26/22 11:40			7.42	SU			FA
Temperature	4/26/22 11:40	4/26/22 11:40			20.24	C			FA
Turbidity	4/26/22 11:40	4/26/22 11:40			2.97	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 11:43
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BC08176

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 11:43
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BC08176

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 11:43
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BC08176

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/26/22 11:43
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BC08176

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Alkalinity, Total as CaCO3	mg/L					56.7	50.6	45.0 to 55.0			7.88	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08178	Solids, Dissolved	mg/L	1.00	25.0			420	52.0	40.0 to 60.0			3.05	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 4/26/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08177

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:35		1.015	0.434	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 10:48		10.15	49.4	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 09:35		1.015	0.115	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 09:35		1.015	0.0446	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 09:35		1.015	19.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:35		1	7.02	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:35		1.015	3.28	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 09:35		1.015	22.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:38		1.015	0.427	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:28		10.15	41.1	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:38		1.015	0.110	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:38		1.015	0.0471	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 09:38		1.015	19.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:38		1	7.10	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:38		1.015	3.32	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 09:38		1.015	24.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/29/22 09:09	4/29/22 15:09		1.015	0.000726	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:09		1.015	0.0353	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:09		1.015	0.00632	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:09		1.015	0.176	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:09		1.015	2.45	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 4/26/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08177

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	0.000782	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	0.0353	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	0.000208	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	0.00648	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	0.181	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	2.45	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:50	4/28/22 13:50		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/9/22 12:05	5/9/22 13:20		1	127	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	250	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	125	mg/L			
Carbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	1.74	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 15:53	5/3/22 15:53		1	1.31	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 4/26/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08177

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 09:18	4/29/22 09:18		1	14.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 11:17	4/29/22 11:17		1	0.152	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:27	5/3/22 10:27		4	91.3	mg/L	2.4	8	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/26/22 13:22	4/26/22 13:22			427.89	uS/cm			FA
pH	4/26/22 13:22	4/26/22 13:22			7.90	SU			FA
Temperature	4/26/22 13:22	4/26/22 13:22			21.03	C			FA
Turbidity	4/26/22 13:22	4/26/22 13:22			1.04	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BC08177

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BC08177

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BC08177

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/26/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BC08177

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Alkalinity, Total as CaCO3	mg/L					56.7	50.6	45.0 to 55.0			7.88	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08178	Solids, Dissolved	mg/L	1.00	25.0			420	52.0	40.0 to 60.0			3.05	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 4/26/22 14:41
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:38		1.015	0.417	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 10:51		10.15	68.6	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 09:38		1.015	0.0273	mg/L	0.008120	0.0406	J
* Lithium, Total	5/2/22 11:25	5/3/22 09:38		1.015	0.0637	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 09:38		1.015	25.0	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:38		1	13.5	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:38		1.015	6.29	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:51		10.15	68.8	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:41		1.015	0.414	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:32		10.15	56.0	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:41		1.015	0.0238	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:41		1.015	0.0663	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 09:41		1.015	24.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:41		1	13.0	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:41		1.015	6.09	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 12:32		10.15	52.5	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:13		1.015	0.0110	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 15:13		1.015	0.00528	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:13		1.015	0.0584	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:13		1.015	0.000203	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:13		1.015	0.136	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:13		1.015	0.0332	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:13		1.015	4.27	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 4/26/22 14:41
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	0.0115	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	0.00424	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	0.0603	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	0.135	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	0.0481	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	4.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	0.00127	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:52	4/28/22 13:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/9/22 12:05	5/9/22 13:20		1	217	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	433	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	216	mg/L			
Carbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	1.37	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 16:09	5/3/22 16:09		1	2.30	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 4/26/22 14:41
Customer ID:
Submittal Date: 4/28/22 09:32

Laboratory ID Number: BC08178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/29/22 09:31	4/29/22 09:31		4	35.9	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/29/22 11:19	4/29/22 11:19		1	0.160	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 10:28	5/3/22 10:28		8	130	mg/L	4.8	16	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	4/26/22 14:38	4/26/22 14:38			697.38	uS/cm			FA
pH	4/26/22 14:38	4/26/22 14:38			7.84	SU			FA
Temperature	4/26/22 14:38	4/26/22 14:38			21.40	C			FA
Turbidity	4/26/22 14:38	4/26/22 14:38			1.72	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 14:41
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BC08178

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 14:41
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BC08178

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 14:41
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BC08178

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/26/22 14:41
Customer ID:
Delivery Date: 4/28/22 09:32

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BC08178

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Alkalinity, Total as CaCO3	mg/L					56.7	50.6	45.0 to 55.0			7.88	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08178	Solids, Dissolved	mg/L	1.00	25.0			420	52.0	40.0 to 60.0			3.05	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-3

Location Code: WMWGASAPFB
Collected: 4/26/22 15:30
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:41		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/2/22 11:25	5/3/22 09:41		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/2/22 11:25	5/3/22 09:41		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/2/22 11:25	5/3/22 09:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/2/22 11:25	5/3/22 09:41		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:41		1	Not Detected	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:41		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/2/22 11:25	5/3/22 09:41		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:54	4/28/22 13:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-3

Location Code: WMWGASAPFB
Collected: 4/26/22 15:30
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	5/3/22 16:27	5/3/22 16:27		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/29/22 09:21	4/29/22 09:21		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/29/22 11:20	4/29/22 11:20		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 10:16	5/3/22 10:16		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 4/26/22 15:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BC08179

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 4/26/22 15:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BC08179

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 4/26/22 15:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BC08179

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08178	Solids, Dissolved	mg/L	1.00	25.0			420	52.0	40.0 to 60.0			3.05	10.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 4/27/22 08:55
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:44		1.015	3.00	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 10:54		10.15	157	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 09:44		1.015	0.338	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 09:44		1.015	0.0360	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 10:54		10.15	80.7	mg/L	0.21315	4.06	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:44		1	9.12	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:44		1.015	4.26	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 09:44		1.015	33.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:45		1.015	2.93	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:35		10.15	125	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:45		1.015	0.317	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:45		1.015	0.0396	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 12:35		10.15	63.9	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:45		1	9.27	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:45		1.015	4.33	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 09:45		1.015	34.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:20		1.015	0.0127	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 15:20		1.015	0.00339	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:20		1.015	0.0349	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/29/22 09:09	4/29/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:20		1.015	0.0628	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:20		1.015	0.286	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:20		1.015	0.579	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 4/27/22 08:55
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	0.0116	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	0.00284	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	0.0376	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	0.0619	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	0.285	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	0.575	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	0.000733	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:56	4/28/22 13:56		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/10/22 10:43	5/10/22 12:08		1	93.3	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	788	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	92.2	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	1.04	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 16:43	5/3/22 16:43		1	1.80	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 4/27/22 08:55
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 09:22	4/29/22 09:22		1	19.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 11:21	4/29/22 11:21		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:29	5/3/22 10:29		20	484	mg/L	12.0	40	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/27/22 08:52	4/27/22 08:52			995.55	uS/cm			FA
pH	4/27/22 08:52	4/27/22 08:52			7.86	SU			FA
Temperature	4/27/22 08:52	4/27/22 08:52			18.52	C			FA
Turbidity	4/27/22 08:52	4/27/22 08:52			1.96	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 08:55
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BC08180

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 08:55
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BC08180

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 08:55
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BC08180

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/27/22 08:55
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BC08180

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Alkalinity, Total as CaCO3	mg/L					306	50.8	45.0 to 55.0			4.68	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 4/27/22 10:24
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:47		1.015	0.220	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 10:57		10.15	54.7	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 09:47		1.015	0.0729	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 09:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/2/22 11:25	5/3/22 09:47		1.015	25.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:47		1	14.4	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:47		1.015	6.74	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 09:47		1.015	23.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:48		1.015	0.223	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:39		10.15	42.8	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:48		1.015	0.0323	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 09:48		1.015	25.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:48		1	14.6	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:48		1.015	6.83	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 09:48		1.015	24.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:24		1.015	0.00984	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/29/22 09:09	4/29/22 15:24		1.015	0.00212	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:24		1.015	0.0170	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/29/22 09:09	4/29/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:24		1.015	0.104	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:24		1.015	0.0128	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:24		1.015	0.846	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 4/27/22 10:24
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	0.00208	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	0.0164	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	0.104	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	0.0109	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	0.875	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:58	4/28/22 13:58		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/10/22 10:43	5/10/22 12:08		1	211	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	255	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	207	mg/L			
Carbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	3.47	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 17:02	5/3/22 17:02		1	1.29	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 4/27/22 10:24
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/29/22 09:23	4/29/22 09:23		1	8.01	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/29/22 11:22	4/29/22 11:22		1	0.0993	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 10:31	5/3/22 10:31		2	37.3	mg/L	1.2	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	4/27/22 10:21	4/27/22 10:21			439.66	uS/cm			FA
pH	4/27/22 10:21	4/27/22 10:21			8.00	SU			FA
Temperature	4/27/22 10:21	4/27/22 10:21			20.13	C			FA
Turbidity	4/27/22 10:21	4/27/22 10:21			0.76	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 10:24
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BC08181

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 10:24
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BC08181

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 10:24
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BC08181

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/27/22 10:24
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BC08181

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Alkalinity, Total as CaCO3	mg/L					306	50.8	45.0 to 55.0			4.68	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP
Collected: 4/27/22 13:49
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:50		1.015	0.124	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 09:50		1.015	39.7	mg/L	0.070035	0.406	
* Iron, Total	5/2/22 11:25	5/3/22 09:50		1.015	0.0443	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 09:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/2/22 11:25	5/3/22 09:50		1.015	23.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:50		1	10.6	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:50		1.015	4.93	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:59		10.15	51.9	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:51		1.015	0.125	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:42		10.15	41.0	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:51		1.015	0.0300	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 09:51		1.015	23.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:51		1	10.6	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:51		1.015	4.97	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 12:42		10.15	40.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:27		1.015	0.00994	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/29/22 09:09	4/29/22 15:27		1.015	0.00989	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:27		1.015	0.0289	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/29/22 09:09	4/29/22 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:27		1.015	0.0371	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:27		1.015	0.0199	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:27		1.015	1.36	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP
Collected: 4/27/22 13:49
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	0.00776	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	0.00919	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	0.0287	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	0.0375	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	0.0169	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	1.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:58	4/28/22 13:58		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/10/22 10:43	5/10/22 12:08		1	243	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	272	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	240	mg/L			
Carbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	2.84	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 17:18	5/3/22 17:18		1	4.29	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP
Collected: 4/27/22 13:49
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 09:33	4/29/22 09:33		2	22.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 11:23	4/29/22 11:23		1	0.390	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:20	5/3/22 10:20		1	24.1	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/27/22 13:46	4/27/22 13:46			496.83	uS/cm			FA
pH	4/27/22 13:46	4/27/22 13:46			7.71	SU			FA
Temperature	4/27/22 13:46	4/27/22 13:46			21.94	C			FA
Turbidity	4/27/22 13:46	4/27/22 13:46			0.75	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:49
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BC08182

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:49
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BC08182

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:49
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BC08182

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:49
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BC08182

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Alkalinity, Total as CaCO3	mg/L					306	50.8	45.0 to 55.0			4.68	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 4/26/22 11:30
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08183

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:53		1.015	1.65	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 11:02		10.15	149	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 09:53		1.015	0.318	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 09:53		1.015	0.0464	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 11:02		10.15	57.7	mg/L	0.21315	4.06	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:53		1	9.22	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:53		1.015	4.31	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 09:53		1.015	10.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:55		1.015	1.66	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:45		10.15	131	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:55		1.015	0.264	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:55		1.015	0.0509	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 12:45		10.15	52.2	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:55		1	9.33	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:55		1.015	4.36	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 09:55		1.015	11.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:31		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/29/22 09:09	4/29/22 15:31		1.015	0.00281	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:31		1.015	0.0515	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 15:31		1.015	0.000242	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 15:31		1.015	0.00160	mg/L	0.000068	0.000203	
* Lead, Total	4/29/22 09:09	4/29/22 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:31		1.015	0.651	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:31		1.015	0.0598	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:31		1.015	3.02	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 4/26/22 11:30
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08183

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:31		1.015	0.000439	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	0.00258	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	0.0492	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	0.00163	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	0.696	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	0.0656	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	3.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:44		1.015	0.000448	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 13:59	4/28/22 13:59		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/9/22 12:05	5/9/22 13:20		1	330	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	596	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	327	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	2.56	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 17:40	5/3/22 17:40		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 4/26/22 11:30
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08183

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 09:25	4/29/22 09:25		1	13.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 11:25	4/29/22 11:25		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:32	5/3/22 10:32		10	216	mg/L	6.0	20	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/26/22 11:27	4/26/22 11:27			893.68	uS/cm			FA
pH	4/26/22 11:27	4/26/22 11:27			6.77	SU			FA
Temperature	4/26/22 11:27	4/26/22 11:27			19.31	C			FA
Turbidity	4/26/22 11:27	4/26/22 11:27			1.09	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 11:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BC08183

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 11:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BC08183

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 11:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BC08183

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/26/22 11:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BC08183

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Alkalinity, Total as CaCO3	mg/L					56.7	50.6	45.0 to 55.0			7.88	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 4/26/22 13:22
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08184

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 09:56		1.015	2.13	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 11:05		10.15	104	mg/L	0.70035	4.06	RA
* Iron, Total	5/2/22 11:25	5/3/22 09:56		1.015	0.0690	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 09:56		1.015	0.505	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 09:56		1.015	29.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 09:56		1	3.27	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 09:56		1.015	1.53	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 09:56		1.015	39.1	mg/L	0.03045	0.406	RA
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 09:58		1.015	2.14	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:49		10.15	87.1	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 09:58		1.015	0.0277	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/2/22 10:00	5/3/22 09:58		1.015	0.527	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 09:58		1.015	28.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 09:58		1	3.36	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 09:58		1.015	1.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 09:58		1.015	39.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:35		1.015	0.0176	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 15:35		1.015	0.00112	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:35		1.015	0.0551	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:35		1.015	0.000314	mg/L	0.000068	0.000203	
* Chromium, Total	4/29/22 09:09	4/29/22 15:35		1.015	0.000238	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 15:35		1.015	0.0000696	mg/L	0.000068	0.000203	J
* Lead, Total	4/29/22 09:09	4/29/22 15:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:35		1.015	0.00733	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	5/3/22 13:32		5.075	2.06	mg/L	0.000508	0.001015	RA
* Potassium, Total	4/29/22 09:09	4/29/22 15:35		1.015	30.0	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 4/26/22 13:22
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08184

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	0.0121	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	0.00116	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	0.0556	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	0.000240	mg/L	0.000068	0.000203	
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	0.0000692	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	0.00677	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 14:40		5.075	2.18	mg/L	0.000508	0.001015	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	29.6	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 14:00	4/28/22 14:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/9/22 12:05	5/9/22 13:20		1	46.1	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	578	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	44.8	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	1.11	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 17:58	5/3/22 17:58		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 4/26/22 13:22
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08184

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 09:43	4/29/22 09:43		10	71.5	mg/L	5.00	10	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 11:26	4/29/22 11:26		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:33	5/3/22 10:33		16	287	mg/L	9.6	32	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/26/22 13:18	4/26/22 13:18			807.96	uS/cm			FA
pH	4/26/22 13:18	4/26/22 13:18			8.39	SU			FA
Temperature	4/26/22 13:18	4/26/22 13:18			20.52	C			FA
Turbidity	4/26/22 13:18	4/26/22 13:18			2.73	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 13:22
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BC08184

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08184	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.120	0.120	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08184	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0999	0.100	0.0930	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08184	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.102	0.101	0.0850 to 0.115	98.1	70.0 to 130	2.78	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08184	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.151	0.154	0.0989	0.0850 to 0.115	95.9	70.0 to 130	1.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08184	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0915	0.0927	0.0917	0.0850 to 0.115	91.5	70.0 to 130	1.30	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08184	Boron, Total	mg/L	-0.00015	0.0650	1.00	3.12	3.15	0.998	0.850 to 1.15	99.0	70.0 to 130	0.957	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08184	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0956	0.0963	0.0980	0.0850 to 0.115	95.3	70.0 to 130	0.730	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08184	Calcium, Total	mg/L	0.00130	0.152	5.00	108	93.8	4.93	4.25 to 5.75	80.0	70.0 to 130	14.1	20.0
BC08184	Chloride	mg/L	0.0454	1.00	100	170	174	10.0	9.00 to 11.0	98.5	80.0 to 120	2.33	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08184	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0950	0.0940	0.0975	0.0850 to 0.115	94.8	70.0 to 130	1.06	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08184	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0963	0.0955	0.0997	0.0850 to 0.115	96.2	70.0 to 130	0.834	20.0
BC08184	Fluoride	mg/L	-0.0322	0.125	2.50	2.61	2.59	2.59	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 13:22
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BC08184

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Iron, Total	mg/L	0.000664	0.0176	0.2	0.264	0.270	0.198	0.170 to 0.230	97.5	70.0 to 130	2.25	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08184	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.0991	0.0997	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.604	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08184	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.695	0.710	0.200	0.170 to 0.230	95.0	70.0 to 130	2.14	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08184	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	34.3	34.4	5.21	4.25 to 5.75	100	70.0 to 130	0.291	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08184	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.106	0.104	0.101	0.0850 to 0.115	98.7	70.0 to 130	1.90	20.0
BC08184	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00341	0.00347	0.00360	0.00340 to 0.00460	85.2	70.0 to 130	1.74	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08184	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	2.23	2.21	0.0982	0.0850 to 0.115	170	70.0 to 130	0.901	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08184	Potassium, Total	mg/L	0.00588	0.367	10.0	38.8	38.9	9.92	8.50 to 11.5	88.0	70.0 to 130	0.257	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08184	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.0984	0.100	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.61	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08184	Silicon, Total	mg/L	-0.000309	0.0440	1.00	2.55	2.55	0.995	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08184	Sodium, Total	mg/L	0.00228	0.0660	5.00	48.7	41.2	5.17	4.25 to 5.75	192	70.0 to 130	16.7	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 13:22
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BC08184

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08184	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC08184	Total Organic Carbon	mg/L	0.210	1.00	10.0	10.7	10.9	9.64		107	80.0 to 120	1.85	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/26/22 13:22
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BC08184

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Alkalinity, Total as CaCO3	mg/L					56.7	50.6	45.0 to 55.0			7.88	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 4/26/22 15:30
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08185

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 10:10		1.015	1.22	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 11:20		10.15	50.9	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 10:10		1.015	0.0555	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 10:10		1.015	0.309	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 10:10		1.015	19.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 10:10		1	4.56	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 10:10		1.015	2.13	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:10		1.015	28.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 10:01		1.015	1.21	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 12:52		10.15	48.1	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 10:01		1.015	0.0334	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/2/22 10:00	5/3/22 10:01		1.015	0.316	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 10:01		1.015	19.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 10:01		1	4.69	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 10:01		1.015	2.19	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 10:01		1.015	28.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 15:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 15:56		1.015	0.00925	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/29/22 09:09	4/29/22 15:56		1.015	0.00210	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 15:56		1.015	0.0604	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 15:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 15:56		1.015	0.000132	mg/L	0.000068	0.000203	J
* Chromium, Total	4/29/22 09:09	4/29/22 15:56		1.015	0.000242	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 15:56		1.015	0.00288	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 15:56		1.015	1.06	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 15:56		1.015	15.3	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 4/26/22 15:30
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08185

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 15:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 15:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	0.00803	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	0.00191	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	0.0611	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	0.0000727	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	0.0000743	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	0.00288	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	1.06	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	15.4	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 13:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 14:01	4/28/22 14:01		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/9/22 12:05	5/9/22 13:20		1	52.4	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	359	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	51.7	mg/L			
Carbonate Alkalinity, (calc.)	5/9/22 12:05	5/9/22 13:20		1	0.641	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 19:24	5/3/22 19:24		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 4/26/22 15:30
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08185

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 10:06	4/29/22 10:06		2	29.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 12:24	4/29/22 12:24		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:34	5/3/22 10:34		10	180	mg/L	6.0	20	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/26/22 15:28	4/26/22 15:28			567.43	uS/cm			FA
pH	4/26/22 15:28	4/26/22 15:28			8.29	SU			FA
Temperature	4/26/22 15:28	4/26/22 15:28			21.45	C			FA
Turbidity	4/26/22 15:28	4/26/22 15:28			1.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 15:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BC08185

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.109	0.112	0.110	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BC08191	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC08185	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0904	0.0913	0.0896	0.0850 to 0.115	90.4	70.0 to 130	0.991	20.0
BC08191	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0909	0.0898	0.0930	0.0850 to 0.115	90.9	70.0 to 130	1.22	20.0
BC08185	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.101	0.105	0.100	0.0850 to 0.115	99.1	70.0 to 130	3.88	20.0
BC08191	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.0982	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.01	20.0
BC08185	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.157	0.161	0.0960	0.0850 to 0.115	95.9	70.0 to 130	2.52	20.0
BC08191	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.0991	0.0962	0.0989	0.0850 to 0.115	99.1	70.0 to 130	2.97	20.0
BC08185	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0916	0.0913	0.0915	0.0850 to 0.115	91.6	70.0 to 130	0.328	20.0
BC08191	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0923	0.0892	0.0917	0.0850 to 0.115	92.3	70.0 to 130	3.42	20.0
BC08185	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	2.23	2.22	1.00	0.850 to 1.15	102	70.0 to 130	0.449	20.0
BC08191	Boron, Total	mg/L	-0.00015	0.0650	1.00	0.993	0.987	0.998	0.850 to 1.15	99.3	70.0 to 130	0.606	20.0
BC08185	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0966	0.0987	0.101	0.0850 to 0.115	96.5	70.0 to 130	2.15	20.0
BC08191	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.100	0.0994	0.0980	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC08185	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	53.5	53.5	5.21	4.25 to 5.75	108	70.0 to 130	0.00	20.0
BC08191	Calcium, Total	mg/L	0.00130	0.152	5.00	5.07	4.91	4.93	4.25 to 5.75	101	70.0 to 130	3.21	20.0
BC08191	Chloride	mg/L	0.00507	1.00	10.0	10.3	10.1	10.0	9.00 to 11.0	103	80.0 to 120	1.96	20.0
BC08185	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0946	0.0967	0.0988	0.0850 to 0.115	94.6	70.0 to 130	2.20	20.0
BC08191	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0971	0.0953	0.0975	0.0850 to 0.115	96.9	70.0 to 130	1.87	20.0
BC08185	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0974	0.0989	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BC08191	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0996	0.0976	0.0997	0.0850 to 0.115	99.6	70.0 to 130	2.03	20.0
BC08191	Fluoride	mg/L	-0.0312	0.125	2.50	2.55	2.58	2.60	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BC08185	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	0.234	0.232	0.202	0.170 to 0.230	100	70.0 to 130	0.858	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 15:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BC08185

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Iron, Total	mg/L	0.000664	0.0176	0.2	0.199	0.195	0.198	0.170 to 0.230	99.5	70.0 to 130	2.03	20.0
BC08185	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.0996	0.101	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.40	20.0
BC08191	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.101	0.0994	0.101	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BC08185	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.528	0.527	0.197	0.170 to 0.230	106	70.0 to 130	0.190	20.0
BC08191	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.197	0.197	0.200	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0
BC08185	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	24.7	24.9	5.26	4.25 to 5.75	104	70.0 to 130	0.806	20.0
BC08191	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	5.21	5.14	5.21	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BC08185	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.102	0.103	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.976	20.0
BC08191	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC08191	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00354	0.00360	0.00360	0.00340 to 0.00460	88.5	70.0 to 130	1.68	20.0
BC08185	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	1.15	1.16	0.100	0.0850 to 0.115	90.0	70.0 to 130	0.866	20.0
BC08191	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	0.0977	0.0974	0.0982	0.0850 to 0.115	97.7	70.0 to 130	0.308	20.0
BC08185	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	24.8	25.4	10.0	8.50 to 11.5	94.0	70.0 to 130	2.39	20.0
BC08191	Potassium, Total	mg/L	0.00588	0.367	10.0	10.1	9.82	9.92	8.50 to 11.5	101	70.0 to 130	2.81	20.0
BC08185	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08191	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08185	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	3.18	3.17	1.05	0.850 to 1.15	99.0	70.0 to 130	0.315	20.0
BC08191	Silicon, Total	mg/L	-0.000309	0.0440	1.00	1.01	0.992	0.995	0.850 to 1.15	101	70.0 to 130	1.80	20.0
BC08185	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	33.6	33.7	5.16	4.25 to 5.75	106	70.0 to 130	0.297	20.0
BC08191	Sodium, Total	mg/L	0.00228	0.0660	5.00	5.10	5.10	5.17	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC08185	Sulfate	mg/L	0.148	2.0	200	391	378	19.2	18.0 to 22.0	106	80.0 to 120	3.38	20.0
BC08185	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/26/22 15:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BC08185

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.106	0.102	0.105	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BC08191	Total Organic Carbon	mg/L	0.240	1.00	10.0	9.97	10.2	9.84		99.7	80.0 to 120	2.28	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/26/22 15:30
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BC08185

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08185	Alkalinity, Total as CaCO3	mg/L					56.7	50.6	45.0 to 55.0			7.88	10.0
BC08185	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.05	0.041	2.11	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 4/27/22 10:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08186

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 10:13		1.015	1.41	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 11:23		10.15	49.3	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 10:13		1.015	0.0118	mg/L	0.008120	0.0406	J
* Lithium, Total	5/2/22 11:25	5/3/22 10:13		1.015	0.339	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 10:13		1.015	14.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 10:13		1	3.81	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 10:13		1.015	1.78	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:13		1.015	25.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 10:18		1.015	1.38	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 13:09		10.15	48.3	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 10:18		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/2/22 10:00	5/3/22 10:18		1.015	0.339	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 10:18		1.015	14.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 10:18		1	3.89	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 10:18		1.015	1.82	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 10:18		1.015	26.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 16:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.0120	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.00114	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.0557	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 16:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.000123	mg/L	0.000068	0.000203	J
* Chromium, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.000246	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.000985	mg/L	0.000068	0.000203	
* Lead, Total	4/29/22 09:09	4/29/22 16:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.0134	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.694	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 16:00		1.015	17.6	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 4/27/22 10:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08186

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 16:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 16:00		1.015	0.000601	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	0.00118	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	0.0583	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	0.0000983	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	0.000976	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	0.0133	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	0.696	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	18.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 14:15		1.015	0.000568	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 14:29	4/28/22 14:29		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/10/22 10:43	5/10/22 12:08		1	37.5	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	318	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	36.4	mg/L			
Carbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	0.964	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 19:39	5/3/22 19:39		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 4/27/22 10:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08186

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 10:07	4/29/22 10:07		2	30.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 12:26	4/29/22 12:26		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:56	5/3/22 10:56		10	173	mg/L	6.0	20	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/27/22 10:23	4/27/22 10:23			527.52	uS/cm			FA
pH	4/27/22 10:23	4/27/22 10:23			8.45	SU			FA
Temperature	4/27/22 10:23	4/27/22 10:23			18.80	C			FA
Turbidity	4/27/22 10:23	4/27/22 10:23			0.92	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 10:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BC08186

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.105	0.106	0.110	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BC08191	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC08190	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0870	0.0880	0.0896	0.0850 to 0.115	87.0	70.0 to 130	1.14	20.0
BC08191	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0909	0.0898	0.0930	0.0850 to 0.115	90.9	70.0 to 130	1.22	20.0
BC08190	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08191	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.0982	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.01	20.0
BC08190	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.183	0.182	0.0960	0.0850 to 0.115	98.3	70.0 to 130	0.548	20.0
BC08191	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.0991	0.0962	0.0989	0.0850 to 0.115	99.1	70.0 to 130	2.97	20.0
BC08190	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0895	0.0902	0.0915	0.0850 to 0.115	89.5	70.0 to 130	0.779	20.0
BC08191	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0923	0.0892	0.0917	0.0850 to 0.115	92.3	70.0 to 130	3.42	20.0
BC08190	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08191	Boron, Total	mg/L	-0.00015	0.0650	1.00	0.993	0.987	0.998	0.850 to 1.15	99.3	70.0 to 130	0.606	20.0
BC08190	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0985	0.0982	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.305	20.0
BC08191	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.100	0.0994	0.0980	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC08190	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	108	107	5.21	4.25 to 5.75	60.0	70.0 to 130	0.930	20.0
BC08191	Calcium, Total	mg/L	0.00130	0.152	5.00	5.07	4.91	4.93	4.25 to 5.75	101	70.0 to 130	3.21	20.0
BC08191	Chloride	mg/L	0.00507	1.00	10.0	10.3	10.1	10.0	9.00 to 11.0	103	80.0 to 120	1.96	20.0
BC08190	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0957	0.0949	0.0988	0.0850 to 0.115	95.7	70.0 to 130	0.839	20.0
BC08191	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0971	0.0953	0.0975	0.0850 to 0.115	96.9	70.0 to 130	1.87	20.0
BC08190	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0948	0.0955	0.101	0.0850 to 0.115	94.8	70.0 to 130	0.736	20.0
BC08191	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0996	0.0976	0.0997	0.0850 to 0.115	99.6	70.0 to 130	2.03	20.0
BC08191	Fluoride	mg/L	-0.0312	0.125	2.50	2.55	2.58	2.60	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BC08190	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	1.14	1.14	0.202	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 10:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BC08186

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Iron, Total	mg/L	0.000664	0.0176	0.2	0.199	0.195	0.198	0.170 to 0.230	99.5	70.0 to 130	2.03	20.0
BC08190	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08191	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.101	0.0994	0.101	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BC08190	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.217	0.217	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BC08191	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.197	0.197	0.200	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0
BC08190	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	43.3	43.0	5.26	4.25 to 5.75	106	70.0 to 130	0.695	20.0
BC08191	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	5.21	5.14	5.21	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BC08190	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.175	0.174	0.103	0.0850 to 0.115	96.7	70.0 to 130	0.573	20.0
BC08191	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC08191	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00354	0.00360	0.00360	0.00340 to 0.00460	88.5	70.0 to 130	1.68	20.0
BC08190	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0979	0.0983	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.408	20.0
BC08191	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	0.0977	0.0974	0.0982	0.0850 to 0.115	97.7	70.0 to 130	0.308	20.0
BC08190	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.3	10.2	10.0	8.50 to 11.5	96.6	70.0 to 130	0.976	20.0
BC08191	Potassium, Total	mg/L	0.00588	0.367	10.0	10.1	9.82	9.92	8.50 to 11.5	101	70.0 to 130	2.81	20.0
BC08190	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.104	0.105	0.105	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC08191	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08190	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	6.63	6.64	1.05	0.850 to 1.15	106	70.0 to 130	0.151	20.0
BC08191	Silicon, Total	mg/L	-0.000309	0.0440	1.00	1.01	0.992	0.995	0.850 to 1.15	101	70.0 to 130	1.80	20.0
BC08190	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	15.5	15.4	5.16	4.25 to 5.75	116	70.0 to 130	0.647	20.0
BC08191	Sodium, Total	mg/L	0.00228	0.0660	5.00	5.10	5.10	5.17	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC08191	Sulfate	mg/L	0.133	2.0	20.0	19.6	19.6	19.3	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BC08190	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 10:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BC08186

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.106	0.102	0.105	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BC08191	Total Organic Carbon	mg/L	0.240	1.00	10.0	9.97	10.2	9.84		99.7	80.0 to 120	2.28	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/27/22 10:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BC08186

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Alkalinity, Total as CaCO3	mg/L					306	50.8	45.0 to 55.0			4.68	10.0
BC08191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.12	0.200	2.00	1.89	-0.106	1.84	1.80 to 2.20	94.5	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 4/27/22 12:05
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08187

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 10:16		1.015	1.47	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 11:26		10.15	74.9	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 10:16		1.015	0.0877	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 10:16		1.015	0.127	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 10:16		1.015	9.58	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 10:16		1	5.03	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 10:16		1.015	2.35	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:16		1.015	23.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 10:22		1.015	1.44	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 13:12		10.15	71.6	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 10:22		1.015	0.0493	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/2/22 10:00	5/3/22 10:22		1.015	0.129	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 10:22		1.015	9.66	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 10:22		1	5.05	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 10:22		1.015	2.36	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 10:22		1.015	24.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 16:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 16:04		1.015	0.0262	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 16:04		1.015	0.00552	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 16:04		1.015	0.0514	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 16:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 16:04		1.015	0.0000773	mg/L	0.000068	0.000203	J
* Chromium, Total	4/29/22 09:09	4/29/22 16:04		1.015	0.000210	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 16:04		1.015	0.000704	mg/L	0.000068	0.000203	
* Lead, Total	4/29/22 09:09	4/29/22 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 16:04		1.015	0.444	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 16:04		1.015	0.519	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 16:04		1.015	14.5	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 4/27/22 12:05
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08187

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 16:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	0.00902	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	0.00564	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	0.0510	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	0.0000985	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	0.000650	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	0.419	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	0.520	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	14.7	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 15:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 14:31	4/28/22 14:31		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/10/22 10:43	5/10/22 12:08		1	33.2	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	369	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	32.8	mg/L			
Carbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 19:54	5/3/22 19:54		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 4/27/22 12:05
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08187

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 10:09	4/29/22 10:09		2	35.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 12:27	4/29/22 12:27		1	0.0766	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:57	5/3/22 10:57		10	191	mg/L	6.0	20	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/27/22 12:00	4/27/22 12:00			571.95	uS/cm			FA
pH	4/27/22 12:00	4/27/22 12:00			8.17	SU			FA
Temperature	4/27/22 12:00	4/27/22 12:00			20.63	C			FA
Turbidity	4/27/22 12:00	4/27/22 12:00			2.21	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 12:05
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BC08187

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.105	0.106	0.110	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BC08191	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC08190	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0870	0.0880	0.0896	0.0850 to 0.115	87.0	70.0 to 130	1.14	20.0
BC08191	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0909	0.0898	0.0930	0.0850 to 0.115	90.9	70.0 to 130	1.22	20.0
BC08190	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08191	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.0982	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.01	20.0
BC08190	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.183	0.182	0.0960	0.0850 to 0.115	98.3	70.0 to 130	0.548	20.0
BC08191	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.0991	0.0962	0.0989	0.0850 to 0.115	99.1	70.0 to 130	2.97	20.0
BC08190	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0895	0.0902	0.0915	0.0850 to 0.115	89.5	70.0 to 130	0.779	20.0
BC08191	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0923	0.0892	0.0917	0.0850 to 0.115	92.3	70.0 to 130	3.42	20.0
BC08190	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08191	Boron, Total	mg/L	-0.00015	0.0650	1.00	0.993	0.987	0.998	0.850 to 1.15	99.3	70.0 to 130	0.606	20.0
BC08190	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0985	0.0982	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.305	20.0
BC08191	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.100	0.0994	0.0980	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC08190	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	108	107	5.21	4.25 to 5.75	60.0	70.0 to 130	0.930	20.0
BC08191	Calcium, Total	mg/L	0.00130	0.152	5.00	5.07	4.91	4.93	4.25 to 5.75	101	70.0 to 130	3.21	20.0
BC08191	Chloride	mg/L	0.00507	1.00	10.0	10.3	10.1	10.0	9.00 to 11.0	103	80.0 to 120	1.96	20.0
BC08190	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0957	0.0949	0.0988	0.0850 to 0.115	95.7	70.0 to 130	0.839	20.0
BC08191	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0971	0.0953	0.0975	0.0850 to 0.115	96.9	70.0 to 130	1.87	20.0
BC08190	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0948	0.0955	0.101	0.0850 to 0.115	94.8	70.0 to 130	0.736	20.0
BC08191	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0996	0.0976	0.0997	0.0850 to 0.115	99.6	70.0 to 130	2.03	20.0
BC08191	Fluoride	mg/L	-0.0312	0.125	2.50	2.55	2.58	2.60	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BC08190	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	1.14	1.14	0.202	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 12:05
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BC08187

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Iron, Total	mg/L	0.000664	0.0176	0.2	0.199	0.195	0.198	0.170 to 0.230	99.5	70.0 to 130	2.03	20.0
BC08190	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08191	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.101	0.0994	0.101	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BC08190	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.217	0.217	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BC08191	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.197	0.197	0.200	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0
BC08190	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	43.3	43.0	5.26	4.25 to 5.75	106	70.0 to 130	0.695	20.0
BC08191	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	5.21	5.14	5.21	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BC08190	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.175	0.174	0.103	0.0850 to 0.115	96.7	70.0 to 130	0.573	20.0
BC08191	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC08191	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00354	0.00360	0.00360	0.00340 to 0.00460	88.5	70.0 to 130	1.68	20.0
BC08190	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0979	0.0983	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.408	20.0
BC08191	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	0.0977	0.0974	0.0982	0.0850 to 0.115	97.7	70.0 to 130	0.308	20.0
BC08190	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.3	10.2	10.0	8.50 to 11.5	96.6	70.0 to 130	0.976	20.0
BC08191	Potassium, Total	mg/L	0.00588	0.367	10.0	10.1	9.82	9.92	8.50 to 11.5	101	70.0 to 130	2.81	20.0
BC08190	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.104	0.105	0.105	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC08191	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08190	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	6.63	6.64	1.05	0.850 to 1.15	106	70.0 to 130	0.151	20.0
BC08191	Silicon, Total	mg/L	-0.000309	0.0440	1.00	1.01	0.992	0.995	0.850 to 1.15	101	70.0 to 130	1.80	20.0
BC08190	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	15.5	15.4	5.16	4.25 to 5.75	116	70.0 to 130	0.647	20.0
BC08191	Sodium, Total	mg/L	0.00228	0.0660	5.00	5.10	5.10	5.17	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC08191	Sulfate	mg/L	0.133	2.0	20.0	19.6	19.6	19.3	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BC08190	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 12:05
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BC08187

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.106	0.102	0.105	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BC08191	Total Organic Carbon	mg/L	0.240	1.00	10.0	9.97	10.2	9.84		99.7	80.0 to 120	2.28	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/27/22 12:05
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BC08187

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Alkalinity, Total as CaCO3	mg/L					306	50.8	45.0 to 55.0			4.68	10.0
BC08191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.12	0.200	2.00	1.89	-0.106	1.84	1.80 to 2.20	94.5	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP
Collected: 4/27/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 10:19		1.015	0.798	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 11:28		10.15	44.4	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 10:19		1.015	0.0664	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 10:19		1.015	0.145	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 10:19		1.015	18.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 10:19		1	4.99	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 10:19		1.015	2.33	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:19		1.015	21.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 10:25		1.015	0.789	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 13:16		10.15	42.3	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 10:25		1.015	0.0310	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/2/22 10:00	5/3/22 10:25		1.015	0.140	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 10:25		1.015	18.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 10:25		1	4.88	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 10:25		1.015	2.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 10:25		1.015	21.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 16:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.117	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.00278	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.0318	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 16:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 16:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.000362	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.000349	mg/L	0.000068	0.000203	
* Lead, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.0000961	mg/L	0.000068	0.000203	J
* Manganese, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.0131	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.487	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 16:07		1.015	10.7	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP
Collected: 4/27/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 16:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 16:07		1.015	0.000205	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	0.00726	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	0.00258	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	0.0317	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	0.0000991	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	0.000228	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	0.0125	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	0.479	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	10.6	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 14:22		1.015	0.000159	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 16:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 14:32	4/28/22 14:32		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/10/22 10:43	5/10/22 12:08		1	60.1	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	282	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	58.9	mg/L			
Carbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	1.08	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 20:09	5/3/22 20:09		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP
Collected: 4/27/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 09:59	4/29/22 09:59		1	19.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 12:28	4/29/22 12:28		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:58	5/3/22 10:58		8	139	mg/L	4.8	16	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/27/22 13:23	4/27/22 13:23			452.94	uS/cm			FA
pH	4/27/22 13:23	4/27/22 13:23			7.83	SU			FA
Temperature	4/27/22 13:23	4/27/22 13:23			21.20	C			FA
Turbidity	4/27/22 13:23	4/27/22 13:23			1.77	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BC08188

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.105	0.106	0.110	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BC08191	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC08190	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0870	0.0880	0.0896	0.0850 to 0.115	87.0	70.0 to 130	1.14	20.0
BC08191	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0909	0.0898	0.0930	0.0850 to 0.115	90.9	70.0 to 130	1.22	20.0
BC08190	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08191	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.0982	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.01	20.0
BC08190	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.183	0.182	0.0960	0.0850 to 0.115	98.3	70.0 to 130	0.548	20.0
BC08191	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.0991	0.0962	0.0989	0.0850 to 0.115	99.1	70.0 to 130	2.97	20.0
BC08190	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0895	0.0902	0.0915	0.0850 to 0.115	89.5	70.0 to 130	0.779	20.0
BC08191	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0923	0.0892	0.0917	0.0850 to 0.115	92.3	70.0 to 130	3.42	20.0
BC08190	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08191	Boron, Total	mg/L	-0.00015	0.0650	1.00	0.993	0.987	0.998	0.850 to 1.15	99.3	70.0 to 130	0.606	20.0
BC08190	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0985	0.0982	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.305	20.0
BC08191	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.100	0.0994	0.0980	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC08190	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	108	107	5.21	4.25 to 5.75	60.0	70.0 to 130	0.930	20.0
BC08191	Calcium, Total	mg/L	0.00130	0.152	5.00	5.07	4.91	4.93	4.25 to 5.75	101	70.0 to 130	3.21	20.0
BC08191	Chloride	mg/L	0.00507	1.00	10.0	10.3	10.1	10.0	9.00 to 11.0	103	80.0 to 120	1.96	20.0
BC08190	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0957	0.0949	0.0988	0.0850 to 0.115	95.7	70.0 to 130	0.839	20.0
BC08191	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0971	0.0953	0.0975	0.0850 to 0.115	96.9	70.0 to 130	1.87	20.0
BC08190	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0948	0.0955	0.101	0.0850 to 0.115	94.8	70.0 to 130	0.736	20.0
BC08191	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0996	0.0976	0.0997	0.0850 to 0.115	99.6	70.0 to 130	2.03	20.0
BC08191	Fluoride	mg/L	-0.0312	0.125	2.50	2.55	2.58	2.60	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BC08190	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	1.14	1.14	0.202	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BC08188

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Iron, Total	mg/L	0.000664	0.0176	0.2	0.199	0.195	0.198	0.170 to 0.230	99.5	70.0 to 130	2.03	20.0
BC08190	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08191	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.101	0.0994	0.101	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BC08190	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.217	0.217	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BC08191	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.197	0.197	0.200	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0
BC08190	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	43.3	43.0	5.26	4.25 to 5.75	106	70.0 to 130	0.695	20.0
BC08191	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	5.21	5.14	5.21	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BC08190	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.175	0.174	0.103	0.0850 to 0.115	96.7	70.0 to 130	0.573	20.0
BC08191	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC08191	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00354	0.00360	0.00360	0.00340 to 0.00460	88.5	70.0 to 130	1.68	20.0
BC08190	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0979	0.0983	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.408	20.0
BC08191	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	0.0977	0.0974	0.0982	0.0850 to 0.115	97.7	70.0 to 130	0.308	20.0
BC08190	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.3	10.2	10.0	8.50 to 11.5	96.6	70.0 to 130	0.976	20.0
BC08191	Potassium, Total	mg/L	0.00588	0.367	10.0	10.1	9.82	9.92	8.50 to 11.5	101	70.0 to 130	2.81	20.0
BC08190	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.104	0.105	0.105	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC08191	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08190	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	6.63	6.64	1.05	0.850 to 1.15	106	70.0 to 130	0.151	20.0
BC08191	Silicon, Total	mg/L	-0.000309	0.0440	1.00	1.01	0.992	0.995	0.850 to 1.15	101	70.0 to 130	1.80	20.0
BC08190	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	15.5	15.4	5.16	4.25 to 5.75	116	70.0 to 130	0.647	20.0
BC08191	Sodium, Total	mg/L	0.00228	0.0660	5.00	5.10	5.10	5.17	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC08191	Sulfate	mg/L	0.133	2.0	20.0	19.6	19.6	19.3	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BC08190	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BC08188

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.106	0.102	0.105	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BC08191	Total Organic Carbon	mg/L	0.240	1.00	10.0	9.97	10.2	9.84		99.7	80.0 to 120	2.28	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BC08188

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Alkalinity, Total as CaCO3	mg/L					306	50.8	45.0 to 55.0			4.68	10.0
BC08191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.12	0.200	2.00	1.89	-0.106	1.84	1.80 to 2.20	94.5	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-28H Dup

Location Code: WMWGASAP
Collected: 4/27/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***					***Preparation Method: EPA 1638***			
* Boron, Total	5/2/22 11:25	5/3/22 10:22		1.015	0.796	mg/L	0.030000	0.1015	
* Calcium, Total	5/2/22 11:25	5/3/22 11:31		10.15	44.8	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 10:22		1.015	0.0608	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 10:22		1.015	0.143	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/2/22 11:25	5/3/22 10:22		1.015	18.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 10:22		1	4.92	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 10:22		1.015	2.30	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:22		1.015	20.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 10:29		1.015	0.788	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/2/22 10:00	5/3/22 13:19		10.15	42.5	mg/L	0.70035	4.06	
* Iron, Dissolved	5/2/22 10:00	5/3/22 10:29		1.015	0.0315	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/2/22 10:00	5/3/22 10:29		1.015	0.142	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 10:29		1.015	18.1	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 10:29		1	4.88	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 10:29		1.015	2.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 10:29		1.015	21.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***					***Preparation Method: EPA 1638***			
* Antimony, Total	4/29/22 09:09	4/29/22 16:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.104	mg/L	0.006090	0.01015	
* Arsenic, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.00268	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.0328	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 16:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.0000874	mg/L	0.000068	0.000203	J
* Chromium, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.000498	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.000344	mg/L	0.000068	0.000203	
* Lead, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.0000929	mg/L	0.000068	0.000203	J
* Manganese, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.0129	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.489	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 16:11		1.015	10.8	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-28H Dup

Location Code: WMWGASAP
Collected: 4/27/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 16:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 16:11		1.015	0.000192	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	0.00737	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	0.00248	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	0.0328	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	0.0000883	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	0.000244	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	0.0122	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	0.482	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	10.8	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 14:26		1.015	0.000147	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 16:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 14:33	4/28/22 14:33		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/10/22 10:43	5/10/22 12:08		1	64.4	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	4/29/22 10:50	5/2/22 13:40		1	289	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	63.3	mg/L			
Carbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	1.06	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 20:28	5/3/22 20:28		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-28H Dup

Location Code: WMWGASAP
Collected: 4/27/22 13:25
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 10:00	4/29/22 10:00		1	19.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 12:29	4/29/22 12:29		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 10:59	5/3/22 10:59		8	135	mg/L	4.8	16	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/27/22 13:23	4/27/22 13:23			452.94	uS/cm			FA
pH	4/27/22 13:23	4/27/22 13:23			7.83	SU			FA
Temperature	4/27/22 13:23	4/27/22 13:23			21.20	C			FA
Turbidity	4/27/22 13:23	4/27/22 13:23			1.77	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-28H Dup

Laboratory ID Number: BC08189

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.105	0.106	0.110	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BC08191	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC08190	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0870	0.0880	0.0896	0.0850 to 0.115	87.0	70.0 to 130	1.14	20.0
BC08191	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0909	0.0898	0.0930	0.0850 to 0.115	90.9	70.0 to 130	1.22	20.0
BC08190	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08191	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.0982	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.01	20.0
BC08190	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.183	0.182	0.0960	0.0850 to 0.115	98.3	70.0 to 130	0.548	20.0
BC08191	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.0991	0.0962	0.0989	0.0850 to 0.115	99.1	70.0 to 130	2.97	20.0
BC08190	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0895	0.0902	0.0915	0.0850 to 0.115	89.5	70.0 to 130	0.779	20.0
BC08191	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0923	0.0892	0.0917	0.0850 to 0.115	92.3	70.0 to 130	3.42	20.0
BC08190	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08191	Boron, Total	mg/L	-0.00015	0.0650	1.00	0.993	0.987	0.998	0.850 to 1.15	99.3	70.0 to 130	0.606	20.0
BC08190	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0985	0.0982	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.305	20.0
BC08191	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.100	0.0994	0.0980	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC08190	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	108	107	5.21	4.25 to 5.75	60.0	70.0 to 130	0.930	20.0
BC08191	Calcium, Total	mg/L	0.00130	0.152	5.00	5.07	4.91	4.93	4.25 to 5.75	101	70.0 to 130	3.21	20.0
BC08191	Chloride	mg/L	0.00507	1.00	10.0	10.3	10.1	10.0	9.00 to 11.0	103	80.0 to 120	1.96	20.0
BC08190	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0957	0.0949	0.0988	0.0850 to 0.115	95.7	70.0 to 130	0.839	20.0
BC08191	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0971	0.0953	0.0975	0.0850 to 0.115	96.9	70.0 to 130	1.87	20.0
BC08190	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0948	0.0955	0.101	0.0850 to 0.115	94.8	70.0 to 130	0.736	20.0
BC08191	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0996	0.0976	0.0997	0.0850 to 0.115	99.6	70.0 to 130	2.03	20.0
BC08191	Fluoride	mg/L	-0.0312	0.125	2.50	2.55	2.58	2.60	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BC08190	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	1.14	1.14	0.202	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-28H Dup

Laboratory ID Number: BC08189

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Iron, Total	mg/L	0.000664	0.0176	0.2	0.199	0.195	0.198	0.170 to 0.230	99.5	70.0 to 130	2.03	20.0
BC08190	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08191	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.101	0.0994	0.101	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BC08190	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.217	0.217	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BC08191	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.197	0.197	0.200	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0
BC08190	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	43.3	43.0	5.26	4.25 to 5.75	106	70.0 to 130	0.695	20.0
BC08191	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	5.21	5.14	5.21	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BC08190	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.175	0.174	0.103	0.0850 to 0.115	96.7	70.0 to 130	0.573	20.0
BC08191	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC08191	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00354	0.00360	0.00360	0.00340 to 0.00460	88.5	70.0 to 130	1.68	20.0
BC08190	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0979	0.0983	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.408	20.0
BC08191	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	0.0977	0.0974	0.0982	0.0850 to 0.115	97.7	70.0 to 130	0.308	20.0
BC08190	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.3	10.2	10.0	8.50 to 11.5	96.6	70.0 to 130	0.976	20.0
BC08191	Potassium, Total	mg/L	0.00588	0.367	10.0	10.1	9.82	9.92	8.50 to 11.5	101	70.0 to 130	2.81	20.0
BC08190	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.104	0.105	0.105	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC08191	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08190	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	6.63	6.64	1.05	0.850 to 1.15	106	70.0 to 130	0.151	20.0
BC08191	Silicon, Total	mg/L	-0.000309	0.0440	1.00	1.01	0.992	0.995	0.850 to 1.15	101	70.0 to 130	1.80	20.0
BC08190	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	15.5	15.4	5.16	4.25 to 5.75	116	70.0 to 130	0.647	20.0
BC08191	Sodium, Total	mg/L	0.00228	0.0660	5.00	5.10	5.10	5.17	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC08191	Sulfate	mg/L	0.133	2.0	20.0	19.6	19.6	19.3	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BC08190	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-28H Dup

Laboratory ID Number: BC08189

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.106	0.102	0.105	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BC08191	Total Organic Carbon	mg/L	0.240	1.00	10.0	9.97	10.2	9.84		99.7	80.0 to 120	2.28	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/27/22 13:25
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-28H Dup

Laboratory ID Number: BC08189

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Alkalinity, Total as CaCO3	mg/L					306	50.8	45.0 to 55.0			4.68	10.0
BC08191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.12	0.200	2.00	1.89	-0.106	1.84	1.80 to 2.20	94.5	90.0 to 110	0.00	15.0
BC08189	Solids, Dissolved	mg/L	1.00	25.0			282	52.0	40.0 to 60.0			2.45	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 4/27/22 15:15
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 10:25		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/2/22 11:25	5/3/22 11:34		10.15	85.3	mg/L	0.70035	4.06	
* Iron, Total	5/2/22 11:25	5/3/22 10:25		1.015	0.670	mg/L	0.008120	0.0406	
* Lithium, Total	5/2/22 11:25	5/3/22 10:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/2/22 11:25	5/3/22 10:25		1.015	29.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/2/22 11:25	5/3/22 10:25		1	10.8	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 10:25		1.015	5.06	mg/L	0.02030	0.25375	
* Sodium, Total	5/2/22 11:25	5/3/22 10:25		1.015	19.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/2/22 10:00	5/3/22 10:32		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/2/22 10:00	5/3/22 13:23		10.15	105	mg/L	0.70035	4.06	RA
* Iron, Dissolved	5/2/22 10:00	5/3/22 10:32		1.015	0.943	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/2/22 10:00	5/3/22 10:32		1.015	0.00742	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	5/2/22 10:00	5/3/22 10:32		1.015	38.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/2/22 10:00	5/3/22 10:32		1	11.9	mg/L			
Silicon, Dissolved	5/2/22 10:00	5/3/22 10:32		1.015	5.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/2/22 10:00	5/3/22 10:32		1.015	9.69	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 16:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 16:15		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/29/22 09:09	4/29/22 16:15		1.015	0.000589	mg/L	0.000081	0.000203	
* Barium, Total	4/29/22 09:09	4/29/22 16:15		1.015	0.0763	mg/L	0.000508	0.001015	
* Beryllium, Total	4/29/22 09:09	4/29/22 16:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 16:15		1.015	0.000250	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 16:15		1.015	0.0714	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/29/22 09:09	4/29/22 16:15		1.015	0.000515	mg/L	0.000102	0.000203	
* Potassium, Total	4/29/22 09:09	4/29/22 16:15		1.015	0.594	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 4/27/22 15:15
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/29/22 09:09	4/29/22 16:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 16:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: ABB***								
* Antimony, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	0.00047	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	0.0847	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	0.0000771	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	0.0783	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	0.000344	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	0.639	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/29/22 09:18	4/29/22 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 16:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 14:33	4/28/22 14:33		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/10/22 10:43	5/10/22 12:08		1	292	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/3/22 09:45	5/4/22 13:15		1	417	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	291	mg/L			
Carbonate Alkalinity, (calc.)	5/10/22 10:43	5/10/22 12:08		1	0.772	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/3/22 20:43	5/3/22 20:43		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 4/27/22 15:15
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/29/22 10:01	4/29/22 10:01		1	4.10	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/29/22 12:30	4/29/22 12:30		1	0.0652	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/3/22 11:01	5/3/22 11:01		8	118	mg/L	4.8	16	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/27/22 15:10	4/27/22 15:10			480.02	uS/cm			FA
pH	4/27/22 15:10	4/27/22 15:10			7.07	SU			FA
Temperature	4/27/22 15:10	4/27/22 15:10			21.14	C			FA
Turbidity	4/27/22 15:10	4/27/22 15:10			0.57	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 15:15
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BC08190

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Aluminum, Dissolved	mg/L	0.000703	0.010	0.100	0.105	0.106	0.110	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BC08191	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC08190	Antimony, Dissolved	mg/L	0.000346	0.00100	0.100	0.0870	0.0880	0.0896	0.0850 to 0.115	87.0	70.0 to 130	1.14	20.0
BC08191	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0909	0.0898	0.0930	0.0850 to 0.115	90.9	70.0 to 130	1.22	20.0
BC08190	Arsenic, Dissolved	mg/L	0.0000458	0.000176	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08191	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.0982	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.01	20.0
BC08190	Barium, Dissolved	mg/L	-0.0000107	0.00100	0.100	0.183	0.182	0.0960	0.0850 to 0.115	98.3	70.0 to 130	0.548	20.0
BC08191	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.0991	0.0962	0.0989	0.0850 to 0.115	99.1	70.0 to 130	2.97	20.0
BC08190	Beryllium, Dissolved	mg/L	0.0000655	0.000880	0.100	0.0895	0.0902	0.0915	0.0850 to 0.115	89.5	70.0 to 130	0.779	20.0
BC08191	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0923	0.0892	0.0917	0.0850 to 0.115	92.3	70.0 to 130	3.42	20.0
BC08190	Boron, Dissolved	mg/L	0.00286	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08191	Boron, Total	mg/L	-0.00015	0.0650	1.00	0.993	0.987	0.998	0.850 to 1.15	99.3	70.0 to 130	0.606	20.0
BC08190	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.0985	0.0982	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.305	20.0
BC08191	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.100	0.0994	0.0980	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC08190	Calcium, Dissolved	mg/L	-0.000301	0.152	5.00	108	107	5.21	4.25 to 5.75	60.0	70.0 to 130	0.930	20.0
BC08191	Calcium, Total	mg/L	0.00130	0.152	5.00	5.07	4.91	4.93	4.25 to 5.75	101	70.0 to 130	3.21	20.0
BC08191	Chloride	mg/L	0.00507	1.00	10.0	10.3	10.1	10.0	9.00 to 11.0	103	80.0 to 120	1.96	20.0
BC08190	Chromium, Dissolved	mg/L	-0.0000096	0.000440	0.100	0.0957	0.0949	0.0988	0.0850 to 0.115	95.7	70.0 to 130	0.839	20.0
BC08191	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0971	0.0953	0.0975	0.0850 to 0.115	96.9	70.0 to 130	1.87	20.0
BC08190	Cobalt, Dissolved	mg/L	-0.0000035	0.000147	0.100	0.0948	0.0955	0.101	0.0850 to 0.115	94.8	70.0 to 130	0.736	20.0
BC08191	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0996	0.0976	0.0997	0.0850 to 0.115	99.6	70.0 to 130	2.03	20.0
BC08191	Fluoride	mg/L	-0.0312	0.125	2.50	2.55	2.58	2.60	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BC08190	Iron, Dissolved	mg/L	-0.000274	0.0176	0.2	1.14	1.14	0.202	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 15:15
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BC08190

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Iron, Total	mg/L	0.000664	0.0176	0.2	0.199	0.195	0.198	0.170 to 0.230	99.5	70.0 to 130	2.03	20.0
BC08190	Lead, Dissolved	mg/L	0.0000035	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08191	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.101	0.0994	0.101	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BC08190	Lithium, Dissolved	mg/L	6.900E-05	0.0154	0.200	0.217	0.217	0.197	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BC08191	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.197	0.197	0.200	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0
BC08190	Magnesium, Dissolved	mg/L	-0.000889	0.0462	5.00	43.3	43.0	5.26	4.25 to 5.75	106	70.0 to 130	0.695	20.0
BC08191	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	5.21	5.14	5.21	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BC08190	Manganese, Dissolved	mg/L	-0.0000156	0.0002	0.100	0.175	0.174	0.103	0.0850 to 0.115	96.7	70.0 to 130	0.573	20.0
BC08191	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC08191	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00354	0.00360	0.00360	0.00340 to 0.00460	88.5	70.0 to 130	1.68	20.0
BC08190	Molybdenum, Dissolved	mg/L	0.0000085	0.0002	0.100	0.0979	0.0983	0.100	0.0850 to 0.115	97.6	70.0 to 130	0.408	20.0
BC08191	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	0.0977	0.0974	0.0982	0.0850 to 0.115	97.7	70.0 to 130	0.308	20.0
BC08190	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.3	10.2	10.0	8.50 to 11.5	96.6	70.0 to 130	0.976	20.0
BC08191	Potassium, Total	mg/L	0.00588	0.367	10.0	10.1	9.82	9.92	8.50 to 11.5	101	70.0 to 130	2.81	20.0
BC08190	Selenium, Dissolved	mg/L	0.000100	0.00100	0.100	0.104	0.105	0.105	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC08191	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08190	Silicon, Dissolved	mg/L	-0.00162	0.0440	1.00	6.63	6.64	1.05	0.850 to 1.15	106	70.0 to 130	0.151	20.0
BC08191	Silicon, Total	mg/L	-0.000309	0.0440	1.00	1.01	0.992	0.995	0.850 to 1.15	101	70.0 to 130	1.80	20.0
BC08190	Sodium, Dissolved	mg/L	-0.00202	0.0660	5.00	15.5	15.4	5.16	4.25 to 5.75	116	70.0 to 130	0.647	20.0
BC08191	Sodium, Total	mg/L	0.00228	0.0660	5.00	5.10	5.10	5.17	4.25 to 5.75	102	70.0 to 130	0.00	20.0
BC08191	Sulfate	mg/L	0.133	2.0	20.0	19.6	19.6	19.3	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BC08190	Thallium, Dissolved	mg/L	-0.0000027	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 4/27/22 15:15
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BC08190

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.106	0.102	0.105	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BC08191	Total Organic Carbon	mg/L	0.240	1.00	10.0	9.97	10.2	9.84		99.7	80.0 to 120	2.28	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/27/22 15:15
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BC08190

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08190	Alkalinity, Total as CaCO3	mg/L					306	50.8	45.0 to 55.0			4.68	10.0
BC08191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.12	0.200	2.00	1.89	-0.106	1.84	1.80 to 2.20	94.5	90.0 to 110	0.00	15.0
BC08190	Solids, Dissolved	mg/L	0.0000	25.0			425	49.0	40.0 to 60.0			1.90	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-4

Location Code: WMWGASAPFB
Collected: 4/27/22 16:00
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/2/22 11:25	5/3/22 10:28		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/2/22 11:25	5/3/22 10:28		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/2/22 11:25	5/3/22 10:28		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/2/22 11:25	5/3/22 10:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/2/22 11:25	5/3/22 10:28		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	5/2/22 11:25	5/3/22 10:28		1	Not Detected	mg/L			
Silicon, Total	5/2/22 11:25	5/3/22 10:28		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/2/22 11:25	5/3/22 10:28		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/29/22 09:09	4/29/22 16:18		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/29/22 09:09	4/29/22 16:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/2/22 11:40	5/2/22 16:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/28/22 14:34	4/28/22 14:34		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/3/22 09:45	5/4/22 13:15		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-4

Location Code: WMWGASAPFB
Collected: 4/27/22 16:00
Customer ID:
Submittal Date: 4/28/22 09:33

Laboratory ID Number: BC08191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	5/3/22 21:03	5/3/22 21:03		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/29/22 10:03	4/29/22 10:03		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/29/22 12:32	4/29/22 12:32		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/3/22 10:52	5/3/22 10:52		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 4/27/22 16:00
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BC08191

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Aluminum, Total	mg/L	0.00102	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC08191	Antimony, Total	mg/L	0.000419	0.00100	0.100	0.0909	0.0898	0.0930	0.0850 to 0.115	90.9	70.0 to 130	1.22	20.0
BC08191	Arsenic, Total	mg/L	0.000019	0.000176	0.100	0.0992	0.0982	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.01	20.0
BC08191	Barium, Total	mg/L	-0.0000108	0.00100	0.100	0.0991	0.0962	0.0989	0.0850 to 0.115	99.1	70.0 to 130	2.97	20.0
BC08191	Beryllium, Total	mg/L	0.0000747	0.000880	0.100	0.0923	0.0892	0.0917	0.0850 to 0.115	92.3	70.0 to 130	3.42	20.0
BC08191	Boron, Total	mg/L	-0.00015	0.0650	1.00	0.993	0.987	0.998	0.850 to 1.15	99.3	70.0 to 130	0.606	20.0
BC08191	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.100	0.0994	0.0980	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC08191	Calcium, Total	mg/L	0.00130	0.152	5.00	5.07	4.91	4.93	4.25 to 5.75	101	70.0 to 130	3.21	20.0
BC08191	Chloride	mg/L	0.00507	1.00	10.0	10.3	10.1	10.0	9.00 to 11.0	103	80.0 to 120	1.96	20.0
BC08191	Chromium, Total	mg/L	-0.0000042	0.000440	0.100	0.0971	0.0953	0.0975	0.0850 to 0.115	96.9	70.0 to 130	1.87	20.0
BC08191	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0996	0.0976	0.0997	0.0850 to 0.115	99.6	70.0 to 130	2.03	20.0
BC08191	Fluoride	mg/L	-0.0312	0.125	2.50	2.55	2.58	2.60	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BC08191	Iron, Total	mg/L	0.000664	0.0176	0.2	0.199	0.195	0.198	0.170 to 0.230	99.5	70.0 to 130	2.03	20.0
BC08191	Lead, Total	mg/L	0.0000041	0.000147	0.100	0.101	0.0994	0.101	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BC08191	Lithium, Total	mg/L	0.000023	0.0154	0.200	0.197	0.197	0.200	0.170 to 0.230	98.5	70.0 to 130	0.00	20.0
BC08191	Magnesium, Total	mg/L	-0.0116	0.0462	5.00	5.21	5.14	5.21	4.25 to 5.75	104	70.0 to 130	1.35	20.0
BC08191	Manganese, Total	mg/L	0.000035	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC08191	Mercury, Total by CVAA	mg/L	2.700E-05	0.000500	0.004	0.00354	0.00360	0.00360	0.00340 to 0.00460	88.5	70.0 to 130	1.68	20.0
BC08191	Molybdenum, Total	mg/L	0.0000083	0.0002	0.100	0.0977	0.0974	0.0982	0.0850 to 0.115	97.7	70.0 to 130	0.308	20.0
BC08191	Potassium, Total	mg/L	0.00588	0.367	10.0	10.1	9.82	9.92	8.50 to 11.5	101	70.0 to 130	2.81	20.0
BC08191	Selenium, Total	mg/L	0.000013	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08191	Silicon, Total	mg/L	-0.000309	0.0440	1.00	1.01	0.992	0.995	0.850 to 1.15	101	70.0 to 130	1.80	20.0
BC08191	Sodium, Total	mg/L	0.00228	0.0660	5.00	5.10	5.10	5.17	4.25 to 5.75	102	70.0 to 130	0.00	20.0

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 4/27/22 16:00
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BC08191

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Sulfate	mg/L	0.133	2.0	20.0	19.6	19.6	19.3	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BC08191	Thallium, Total	mg/L	-0.0000047	0.000147	0.100	0.106	0.102	0.105	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BC08191	Total Organic Carbon	mg/L	0.240	1.00	10.0	9.97	10.2	9.84		99.7	80.0 to 120	2.28	20.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 4/27/22 16:00
Customer ID:
Delivery Date: 4/28/22 09:33

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BC08191

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.12	0.200	2.00	1.89	-0.106	1.84	1.80 to 2.20	94.5	90.0 to 110	0.00	15.0
BC08190	Solids, Dissolved	mg/L	0.0000	25.0			425	49.0	40.0 to 60.0			1.90	10.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 5/2/22 10:20
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08539

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:12		1.015	0.0313	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/22 11:50	5/10/22 11:33		10.15	52.4	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 10:12		1.015	0.455	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 10:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:12		1.015	26.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:12		1	10.1	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:12		1.015	4.73	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:12		1.015	16.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:34		1.015	0.0316	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/5/22 11:28	5/10/22 13:52		10.15	56.7	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:34		1.015	0.381	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:34		1.015	25.6	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:34		1	9.95	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:34		1.015	4.65	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:34		1.015	15.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 14:02		1.015	0.00107	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 14:02		1.015	0.0188	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:02		1.015	0.000311	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:02		1.015	0.0227	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:02		1.015	0.00107	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:02		1.015	0.344	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 5/2/22 10:20
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08539

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	0.000926	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	0.0185	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	0.000284	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	0.0000744	mg/L	0.000068	0.000203	J
* Lead, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	0.0220	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	0.000989	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	0.360	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:24	5/5/22 12:24		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/13/22 10:15	5/13/22 11:44		1	284	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	237	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	282	mg/L			
Carbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	1.75	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 16:55	5/5/22 16:55		1	1.63	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 5/2/22 10:20
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08539

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 10:43	5/9/22 10:43		1	3.33	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:15	5/9/22 13:15		1	0.111	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 11:19	5/17/22 11:19		1	3.02	mg/L	0.6	2	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	5/2/22 10:14	5/2/22 10:14			493.20	uS/cm			FA
pH	5/2/22 10:14	5/2/22 10:14			7.44	SU			FA
Temperature	5/2/22 10:14	5/2/22 10:14			19.63	C			FA
Turbidity	5/2/22 10:14	5/2/22 10:14			1.61	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:20
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BC08539

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:20
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BC08539

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:20
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BC08539

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:20
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BC08539

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08554	Alkalinity, Total as CaCO3	mg/L					97.3	50.6	45.0 to 55.0			1.97	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08548	Solids, Dissolved	mg/L	1.00	25.0			150	48.0	40.0 to 60.0			2.70	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 5/2/22 12:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08540

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:15		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/5/22 11:50	5/10/22 10:15		1.015	30.9	mg/L	0.070035	0.406	
* Iron, Total	5/5/22 11:50	5/10/22 10:15		1.015	0.248	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 10:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:15		1.015	15.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:15		1	10.1	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:15		1.015	4.71	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:15		1.015	35.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:37		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/5/22 11:28	5/10/22 12:37		1.015	31.9	mg/L	0.070035	0.406	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:37		1.015	0.194	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:37		1.015	14.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:37		1	9.82	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:37		1.015	4.59	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:37		1.015	33.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:06		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 14:06		1.015	0.00225	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 14:06		1.015	0.114	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:06		1.015	0.000292	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:06		1.015	0.125	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:06		1.015	0.00120	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:06		1.015	0.503	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 5/2/22 12:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08540

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	0.00208	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	0.114	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	0.128	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	0.00110	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	0.538	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:26	5/5/22 12:26		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/13/22 10:15	5/13/22 11:44		1	197	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	209	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	196	mg/L			
Carbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	1.19	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 17:17	5/5/22 17:17		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 5/2/22 12:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08540

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 10:44	5/9/22 10:44		1	8.50	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:17	5/9/22 13:17		1	0.122	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 11:21	5/17/22 11:21		1	17.9	mg/L	0.6	2	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	5/2/22 12:07	5/2/22 12:07			402.93	uS/cm			FA
pH	5/2/22 12:07	5/2/22 12:07			7.70	SU			FA
Temperature	5/2/22 12:07	5/2/22 12:07			21.20	C			FA
Turbidity	5/2/22 12:07	5/2/22 12:07			1.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 12:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BC08540

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 12:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BC08540

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 12:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BC08540

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 12:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BC08540

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08554	Alkalinity, Total as CaCO3	mg/L					97.3	50.6	45.0 to 55.0			1.97	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08548	Solids, Dissolved	mg/L	1.00	25.0			150	48.0	40.0 to 60.0			2.70	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 5/2/22 14:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08541

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***					***Preparation Method: EPA 1638***			
* Boron, Total	5/5/22 11:50	5/10/22 10:17		1.015	0.0352	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/22 11:50	5/10/22 10:17		1.015	37.8	mg/L	0.070035	0.406	
* Iron, Total	5/5/22 11:50	5/10/22 10:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/5/22 11:50	5/10/22 10:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:17		1.015	21.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:17		1	8.82	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:17		1.015	4.12	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:17		1.015	2.47	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:40		1.015	0.0358	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/5/22 11:28	5/10/22 12:40		1.015	39.0	mg/L	0.070035	0.406	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:40		1.015	20.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:40		1	8.65	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:40		1.015	4.04	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:40		1.015	2.51	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***					***Preparation Method: EPA 1638***			
* Antimony, Total	5/5/22 08:33	5/5/22 14:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:10		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 14:10		1.015	0.000236	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 14:10		1.015	0.0132	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:10		1.015	0.000258	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:10		1.015	0.00159	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:10		1.015	0.000212	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:10		1.015	0.202	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 5/2/22 14:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08541

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:10		1.015	0.000548	mg/L	0.000508	0.001015	J
* Thallium, Total	5/5/22 08:33	5/5/22 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	0.000251	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	0.0131	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	0.00134	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	0.000218	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	0.209	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:28	5/5/22 12:28		1	0.201	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:56	5/16/22 13:56		1	186	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	173	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:56	5/16/22 13:56		1	183	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:56	5/16/22 13:56		1	2.99	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 17:38	5/5/22 17:38		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 5/2/22 14:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08541

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 10:45	5/9/22 10:45		1	3.20	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:18	5/9/22 13:18		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 11:24	5/17/22 11:24		1	4.75	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	5/2/22 14:10	5/2/22 14:10			344.10	uS/cm			FA
pH	5/2/22 14:10	5/2/22 14:10			7.12	SU			FA
Temperature	5/2/22 14:10	5/2/22 14:10			21.48	C			FA
Turbidity	5/2/22 14:10	5/2/22 14:10			1.27	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 14:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BC08541

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 14:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BC08541

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 14:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BC08541

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 14:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BC08541

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08548	Solids, Dissolved	mg/L	1.00	25.0			150	48.0	40.0 to 60.0			2.70	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 5/2/22 16:05
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08542

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:20		1.015	0.324	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 11:36		10.15	43.4	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 10:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/5/22 11:50	5/10/22 10:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:20		1.015	22.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:20		1	9.01	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:20		1.015	4.21	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:20		1.015	5.70	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:43		1.015	0.324	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 13:55		10.15	44.0	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:43		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:43		1.015	21.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:43		1	8.77	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:43		1.015	4.10	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:43		1.015	5.47	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:13		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 14:13		1.015	0.000177	mg/L	0.000081	0.000203	J
* Barium, Total	5/5/22 08:33	5/5/22 14:13		1.015	0.00954	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:13		1.015	0.000651	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:13		1.015	0.000177	mg/L	0.000152	0.000203	J
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:13		1.015	0.000376	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:13		1.015	0.201	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 5/2/22 16:05
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08542

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	0.000146	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	0.00969	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	0.000496	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	0.000342	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	0.208	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:30	5/5/22 12:30		1	0.884	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 14:06	5/16/22 14:06		1	136	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	234	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 14:06	5/16/22 14:06		1	134	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 14:06	5/16/22 14:06		1	1.78	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 17:58	5/5/22 17:58		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 5/2/22 16:05
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08542

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 10:47	5/9/22 10:47		1	6.86	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:19	5/9/22 13:19		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 11:23	5/17/22 11:23		3	58.3	mg/L	1.8	6	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	5/2/22 16:03	5/2/22 16:03			375.04	uS/cm			FA
pH	5/2/22 16:03	5/2/22 16:03			7.16	SU			FA
Temperature	5/2/22 16:03	5/2/22 16:03			20.66	C			FA
Turbidity	5/2/22 16:03	5/2/22 16:03			1.61	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 16:05
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BC08542

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 16:05
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BC08542

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 16:05
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BC08542

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 16:05
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BC08542

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08548	Solids, Dissolved	mg/L	1.00	25.0			150	48.0	40.0 to 60.0			2.70	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 5/3/22 09:55
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08543

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:23		1.015	1.30	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 11:39		10.15	69.0	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 10:23		1.015	0.0104	mg/L	0.008120	0.0406	J
* Lithium, Total	5/5/22 11:50	5/10/22 10:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:23		1.015	23.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:23		1	6.85	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:23		1.015	3.20	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:23		1.015	10.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:46		1.015	1.28	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 13:58		10.15	74.8	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:46		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:46		1.015	22.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:46		1	6.66	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:46		1.015	3.11	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:46		1.015	9.31	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:17		1.015	0.0116	mg/L	0.006090	0.01015	
* Arsenic, Total	5/5/22 08:33	5/5/22 14:17		1.015	0.000163	mg/L	0.000081	0.000203	J
* Barium, Total	5/5/22 08:33	5/5/22 14:17		1.015	0.0191	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:17		1.015	0.000349	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:17		1.015	0.00110	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:17		1.015	0.000237	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:17		1.015	3.06	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 5/3/22 09:55
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08543

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	0.000160	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	0.0197	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	0.000212	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	0.000348	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	0.000281	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	3.12	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:31	5/5/22 12:31		1	0.330	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:38	5/16/22 15:49		1	174	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	329	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	172	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	2.13	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 18:20	5/5/22 18:20		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 5/3/22 09:55
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08543

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 10:48	5/9/22 10:48		1	12.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:20	5/9/22 13:20		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 11:26	5/17/22 11:26		5	107	mg/L	3.0	10	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	5/3/22 09:53	5/3/22 09:53			541.65	uS/cm			FA
pH	5/3/22 09:53	5/3/22 09:53			7.53	SU			FA
Temperature	5/3/22 09:53	5/3/22 09:53			18.80	C			FA
Turbidity	5/3/22 09:53	5/3/22 09:53			1.52	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 09:55
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BC08543

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 09:55
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BC08543

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 09:55
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BC08543

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/3/22 09:55
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BC08543

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08548	Solids, Dissolved	mg/L	1.00	25.0			150	48.0	40.0 to 60.0			2.70	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 5/3/22 11:00
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08544

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:26		1.015	1.81	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 11:42		10.15	68.8	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 10:26		1.015	0.0177	mg/L	0.008120	0.0406	J
* Lithium, Total	5/5/22 11:50	5/10/22 10:26		1.015	0.0178	mg/L	0.007105	0.01999956	J
* Magnesium, Total	5/5/22 11:50	5/10/22 10:26		1.015	28.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:26		1	6.81	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:26		1.015	3.18	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:26		1.015	18.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:49		1.015	1.79	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:01		10.15	68.9	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:49		1.015	0.012	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:49		1.015	27.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:49		1	6.57	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:49		1.015	3.07	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:49		1.015	17.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:20		1.015	0.0245	mg/L	0.006090	0.01015	
* Arsenic, Total	5/5/22 08:33	5/5/22 14:20		1.015	0.000151	mg/L	0.000081	0.000203	J
* Barium, Total	5/5/22 08:33	5/5/22 14:20		1.015	0.0232	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:20		1.015	0.000304	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:20		1.015	0.00409	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:20		1.015	0.00912	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:20		1.015	2.18	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 5/3/22 11:00
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08544

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	0.000116	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	0.0222	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	0.00317	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	0.00880	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	2.29	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:33	5/5/22 12:33		1	0.795	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:38	5/16/22 15:49		1	160	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	376	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	158	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	1.83	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 18:39	5/5/22 18:39		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 5/3/22 11:00
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08544

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 10:57	5/9/22 10:57		2	26.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:21	5/9/22 13:21		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 11:27	5/17/22 11:27		8	115	mg/L	4.8	16	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	5/3/22 10:57	5/3/22 10:57			635.65	uS/cm			FA
pH	5/3/22 10:57	5/3/22 10:57			7.63	SU			FA
Temperature	5/3/22 10:57	5/3/22 10:57			19.74	C			FA
Turbidity	5/3/22 10:57	5/3/22 10:57			1.7	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 11:00
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BC08544

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 11:00
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BC08544

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 11:00
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BC08544

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/3/22 11:00
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BC08544

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08548	Solids, Dissolved	mg/L	1.00	25.0			150	48.0	40.0 to 60.0			2.70	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 5/3/22 12:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08545

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:29		1.015	1.61	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 11:45		10.15	73.0	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 10:29		1.015	0.352	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 10:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:29		1.015	27.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:29		1	6.36	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:29		1.015	2.97	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:29		1.015	20.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:51		1.015	1.52	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:04		10.15	74.7	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:51		1.015	0.329	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:51		1.015	26.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:51		1	6.21	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:51		1.015	2.90	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:51		1.015	18.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:24		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 14:24		1.015	0.00141	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 14:24		1.015	0.0497	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/22 08:33	5/5/22 14:24		1.015	0.00116	mg/L	0.000068	0.000203	
* Lead, Total	5/5/22 08:33	5/5/22 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:24		1.015	0.150	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:24		1.015	0.0116	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:24		1.015	2.20	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 5/3/22 12:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08545

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	0.00138	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	0.0475	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	0.00117	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	0.159	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	0.0106	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	2.16	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:35	5/5/22 12:35		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:38	5/16/22 15:49		1	144	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/9/22 11:25	5/11/22 12:45		1	388	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	142	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	1.93	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 19:01	5/5/22 19:01		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 5/3/22 12:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08545

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 10:59	5/9/22 10:59		2	30.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:23	5/9/22 13:23		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 11:28	5/17/22 11:28		8	131	mg/L	4.8	16	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	5/3/22 12:06	5/3/22 12:06			655.26	uS/cm			FA
pH	5/3/22 12:06	5/3/22 12:06			7.48	SU			FA
Temperature	5/3/22 12:06	5/3/22 12:06			19.13	C			FA
Turbidity	5/3/22 12:06	5/3/22 12:06			1.17	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 12:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BC08545

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 12:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BC08545

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 12:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BC08545

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/3/22 12:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BC08545

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08546	Solids, Dissolved	mg/L	1.00	25.0			306	49.0	40.0 to 60.0			0.651	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 5/3/22 13:20
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08546

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:32		1.015	1.00	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 11:48		10.15	64.0	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 10:32		1.015	0.00968	mg/L	0.008120	0.0406	J
* Lithium, Total	5/5/22 11:50	5/10/22 10:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:32		1.015	24.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:32		1	6.72	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:32		1.015	3.14	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:32		1.015	11.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:54		1.015	0.977	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:07		10.15	66.7	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:54		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:54		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:54		1.015	23.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:54		1	6.57	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:54		1.015	3.07	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:54		1.015	11.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:27		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 14:27		1.015	0.000153	mg/L	0.000081	0.000203	J
* Barium, Total	5/5/22 08:33	5/5/22 14:27		1.015	0.0276	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:27		1.015	0.000260	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:27		1.015	0.000146	mg/L	0.000068	0.000203	J
* Lead, Total	5/5/22 08:33	5/5/22 14:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:27		1.015	0.0689	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:27		1.015	0.0342	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:27		1.015	2.14	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 5/3/22 13:20
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08546

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	0.0000926	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	0.0277	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	0.0126	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	0.0333	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	2.25	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:37	5/5/22 12:37		1	0.617	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:38	5/16/22 15:49		1	192	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/9/22 11:25	5/11/22 12:45		1	308	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	191	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	0.668	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 19:19	5/5/22 19:19		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 5/3/22 13:20
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08546

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 10:51	5/9/22 10:51		1	14.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:24	5/9/22 13:24		1	0.0819	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 11:29	5/17/22 11:29		4	74.2	mg/L	2.4	8	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	5/3/22 13:18	5/3/22 13:18			538.69	uS/cm			FA
pH	5/3/22 13:18	5/3/22 13:18			7.21	SU			FA
Temperature	5/3/22 13:18	5/3/22 13:18			19.33	C			FA
Turbidity	5/3/22 13:18	5/3/22 13:18			1.17	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 13:20
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BC08546

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 13:20
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BC08546

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 13:20
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BC08546

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/3/22 13:20
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BC08546

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08546	Solids, Dissolved	mg/L	1.00	25.0			306	49.0	40.0 to 60.0			0.651	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Equipment Blank-1

Location Code: WMWGASAPEB
Collected: 5/3/22 13:45
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08547

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:35		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/5/22 11:50	5/10/22 10:35		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/5/22 11:50	5/10/22 10:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/5/22 11:50	5/10/22 10:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:35		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:35		1	Not Detected	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:35		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/5/22 11:50	5/10/22 10:35		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:39	5/5/22 12:39		1	0.204	mg/L as N	0.20	0.3	J
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/9/22 11:25	5/11/22 12:45		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Equipment Blank-1

Location Code: WMWGASAPEB
Collected: 5/3/22 13:45
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08547

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	5/5/22 19:37	5/5/22 19:37		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 10:53	5/9/22 10:53		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:25	5/9/22 13:25		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 11:30	5/17/22 11:30		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPEB
Sample Date: 5/3/22 13:45
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BC08547

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPEB
Sample Date: 5/3/22 13:45
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BC08547

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAPEB
Sample Date: 5/3/22 13:45
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BC08547

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08546	Solids, Dissolved	mg/L	1.00	25.0			306	49.0	40.0 to 60.0			0.651	10.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 5/2/22 10:24
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08548

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:38		1.015	0.178	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 10:38		1.015	27.8	mg/L	0.070035	0.406	
* Iron, Total	5/5/22 11:50	5/10/22 10:38		1.015	0.0762	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 10:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:38		1.015	14.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:38		1	7.75	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:38		1.015	3.62	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:38		1.015	7.51	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 12:57		1.015	0.180	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 12:57		1.015	29.5	mg/L	0.070035	0.406	
* Iron, Dissolved	5/5/22 11:28	5/10/22 12:57		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 12:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 12:57		1.015	14.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 12:57		1	7.43	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 12:57		1.015	3.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 12:57		1.015	6.92	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:36		1.015	0.0381	mg/L	0.006090	0.01015	R
* Arsenic, Total	5/5/22 08:33	5/5/22 14:36		1.015	0.000221	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 14:36		1.015	0.0158	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:36		1.015	0.000274	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:36		1.015	0.00334	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:36		1.015	0.00501	mg/L	0.000102	0.000203	R
* Potassium, Total	5/5/22 08:33	5/5/22 14:36		1.015	0.697	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 5/2/22 10:24
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08548

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	0.000134	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	0.0150	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	0.000310	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	0.00553	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	0.688	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/24/22 14:34	5/25/22 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 20:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:41	5/5/22 12:41		1	1.10	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/13/22 10:15	5/13/22 11:44		1	126	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	146	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	126	mg/L			
Carbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	0.215	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 19:55	5/5/22 19:55		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 5/2/22 10:24
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08548

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 10:54	5/9/22 10:54		1	13.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:26	5/9/22 13:26		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 11:32	5/17/22 11:32		1	14.9	mg/L	0.6	2	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	5/2/22 10:20	5/2/22 10:20			271.43	uS/cm			FA
pH	5/2/22 10:20	5/2/22 10:20			6.74	SU			FA
Temperature	5/2/22 10:20	5/2/22 10:20			19.60	C			FA
Turbidity	5/2/22 10:20	5/2/22 10:20			2.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:24
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BC08548

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Aluminum, Dissolved	mg/L	0.000229	0.010	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08548	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.213	0.224	0.0985	0.0850 to 0.115	175	70.0 to 130	5.03	20.0
BC08548	Antimony, Dissolved	mg/L	0.000271	0.00100	0.100	0.0890	0.0911	0.0878	0.0850 to 0.115	89.0	70.0 to 130	2.33	20.0
BC08548	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.102	0.105	0.0932	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08548	Arsenic, Dissolved	mg/L	0.0000068	0.000176	0.100	0.0991	0.0986	0.0984	0.0850 to 0.115	99.0	70.0 to 130	0.506	20.0
BC08548	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.102	0.0996	0.103	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BC08548	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.113	0.113	0.0970	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BC08548	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.123	0.101	0.0850 to 0.115	103	70.0 to 130	3.31	20.0
BC08548	Beryllium, Dissolved	mg/L	0.0000152	0.000880	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC08548	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.106	0.103	0.110	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08548	Boron, Total	mg/L	0.000126	0.0650	1.00	1.20	1.20	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC08548	Cadmium, Dissolved	mg/L	0.0000036	0.000147	0.100	0.0974	0.0986	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.22	20.0
BC08548	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.100	0.101	0.0968	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08548	Calcium, Total	mg/L	0.00406	0.152	5.00	31.7	31.4	4.90	4.25 to 5.75	78.0	70.0 to 130	0.951	20.0
BC08548	Chloride	mg/L	0.169	1.00	10.0	22.9	23.0	9.54	9.00 to 11.0	99.0	80.0 to 120	0.436	20.0
BC08548	Chromium, Dissolved	mg/L	0.0000055	0.000440	0.100	0.0992	0.0987	0.0985	0.0850 to 0.115	98.9	70.0 to 130	0.505	20.0
BC08548	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08548	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.0996	0.0986	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.01	20.0
BC08548	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08548	Fluoride	mg/L	0.0185	0.125	2.50	2.67	2.61	2.66	2.25 to 2.75	107	80.0 to 120	2.27	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:24
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BC08548

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Iron, Total	mg/L	0.000951	0.0176	0.2	0.262	0.267	0.204	0.170 to 0.230	92.9	70.0 to 130	1.89	20.0
BC08548	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.103	0.0965	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08548	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08548	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.210	0.214	0.206	0.170 to 0.230	105	70.0 to 130	1.89	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08548	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	19.5	19.7	5.19	4.25 to 5.75	96.0	70.0 to 130	1.02	20.0
BC08548	Manganese, Dissolved	mg/L	0.0000176	0.0002	0.100	0.100	0.0997	0.0998	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BC08548	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.103	0.103	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.00	20.0
BC08548	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.0039	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.514	20.0
BC08548	Molybdenum, Dissolved	mg/L	0.0000074	0.0002	0.100	0.104	0.103	0.0964	0.0850 to 0.115	98.5	70.0 to 130	0.966	20.0
BC08548	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.136	0.137	0.0979	0.0850 to 0.115	131	70.0 to 130	0.733	20.0
BC08548	Potassium, Dissolved	mg/L	-0.00122	0.367	10.0	10.6	10.3	9.62	8.50 to 11.5	99.1	70.0 to 130	2.87	20.0
BC08548	Potassium, Total	mg/L	-0.00103	0.367	10.0	12.0	12.1	10.1	8.50 to 11.5	113	70.0 to 130	0.830	20.0
BC08548	Selenium, Dissolved	mg/L	-0.0000721	0.00100	0.100	0.0982	0.0999	0.0990	0.0850 to 0.115	98.2	70.0 to 130	1.72	20.0
BC08548	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08548	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.68	4.67	1.03	0.850 to 1.15	106	70.0 to 130	0.214	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08548	Sodium, Total	mg/L	0.00146	0.0660	5.00	12.8	13.1	5.15	4.25 to 5.75	106	70.0 to 130	2.32	20.0
BC08548	Sulfate	mg/L	0.0487	2.0	20.0	35.0	35.1	18.5	18.0 to 22.0	100	80.0 to 120	0.285	20.0
BC08548	Thallium, Dissolved	mg/L	0.0000076	0.000147	0.100	0.104	0.106	0.0973	0.0850 to 0.115	104	70.0 to 130	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:24
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BC08548

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08548	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.101	0.0970	0.0995	0.0850 to 0.115	101	70.0 to 130	4.04	20.0
BC08548	Total Organic Carbon	mg/L	0.190	1.00	10.0	10.0	10.7	9.69		100	80.0 to 120	6.76	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:24
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BC08548

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08554	Alkalinity, Total as CaCO3	mg/L					97.3	50.6	45.0 to 55.0			1.97	10.0
BC08548	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	3.20	1.08	2.00	1.80 to 2.20	105	90.0 to 110	1.83	15.0
BC08548	Solids, Dissolved	mg/L	1.00	25.0			150	48.0	40.0 to 60.0			2.70	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP
Collected: 5/2/22 10:24
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08549

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:52		1.015	0.178	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 10:52		1.015	27.3	mg/L	0.070035	0.406	
* Iron, Total	5/5/22 11:50	5/10/22 10:52		1.015	0.0431	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 10:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:52		1.015	14.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:52		1	7.60	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:52		1.015	3.55	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:52		1.015	7.67	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:00		1.015	0.180	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 13:00		1.015	28.8	mg/L	0.070035	0.406	
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:00		1.015	14.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:00		1	7.38	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:00		1.015	3.45	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 13:00		1.015	6.95	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 14:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 14:57		1.015	0.0363	mg/L	0.006090	0.01015	
* Arsenic, Total	5/5/22 08:33	5/5/22 14:57		1.015	0.000176	mg/L	0.000081	0.000203	J
* Barium, Total	5/5/22 08:33	5/5/22 14:57		1.015	0.0167	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 14:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 14:57		1.015	0.000253	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 14:57		1.015	0.00354	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 14:57		1.015	0.00523	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 14:57		1.015	0.698	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP
Collected: 5/2/22 10:24
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08549

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 14:57		1.015	0.000546	mg/L	0.000508	0.001015	J
* Thallium, Total	5/5/22 08:33	5/5/22 14:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	0.000108	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	0.0150	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	0.00564	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	0.709	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:50	5/5/22 12:50		1	1.12	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/13/22 10:15	5/13/22 11:44		1	127	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	152	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	127	mg/L			
Carbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 21:21	5/5/22 21:21		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP
Collected: 5/2/22 10:24
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08549

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 11:11	5/9/22 11:11		1	12.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:39	5/9/22 13:39		1	0.0641	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 12:07	5/17/22 12:07		1	14.6	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	5/2/22 10:20	5/2/22 10:20			271.43	uS/cm			FA
pH	5/2/22 10:20	5/2/22 10:20			6.74	SU			FA
Temperature	5/2/22 10:20	5/2/22 10:20			19.60	C			FA
Turbidity	5/2/22 10:20	5/2/22 10:20			2.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:24
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BC08549

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08549	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.105	0.105	0.104	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08549	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0907	0.0944	0.0946	0.0850 to 0.115	90.7	70.0 to 130	4.00	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08549	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.0990	0.101	0.101	0.0850 to 0.115	98.9	70.0 to 130	2.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08549	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.116	0.117	0.104	0.0850 to 0.115	101	70.0 to 130	0.858	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08549	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08549	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.19	1.19	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08549	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.102	0.0993	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08549	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	34.0	33.9	5.08	4.25 to 5.75	104	70.0 to 130	0.295	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08549	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08549	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.105	0.106	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08549	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.194	0.193	0.202	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:24
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BC08549

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08549	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.103	0.106	0.107	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08549	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.194	0.193	0.196	0.170 to 0.230	97.0	70.0 to 130	0.517	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08549	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	19.4	19.2	5.12	4.25 to 5.75	98.0	70.0 to 130	1.04	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08549	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08549	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.104	0.109	0.105	0.0850 to 0.115	98.4	70.0 to 130	4.69	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08549	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	10.8	10.9	10.2	8.50 to 11.5	101	70.0 to 130	0.922	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08549	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.101	0.105	0.104	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08549	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.44	4.43	1.01	0.850 to 1.15	99.0	70.0 to 130	0.225	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08549	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	11.6	11.5	4.79	4.25 to 5.75	93.0	70.0 to 130	0.866	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08549	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.100	0.104	0.101	0.0850 to 0.115	100	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:24
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BC08549

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:24
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BC08549

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08554	Alkalinity, Total as CaCO3	mg/L					97.3	50.6	45.0 to 55.0			1.97	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-5

Location Code: WMWGASAPFB
Collected: 5/2/22 10:40
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08550

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:55		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/5/22 11:50	5/10/22 10:55		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/5/22 11:50	5/10/22 10:55		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/5/22 11:50	5/10/22 10:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:55		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:55		1	Not Detected	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:55		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/5/22 11:50	5/10/22 10:55		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:01		1.015	0.000236	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:52	5/5/22 12:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond Field Blank-5

Location Code: WMWGASAPFB
Collected: 5/2/22 10:40
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08550

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: ELH***							
* Total Organic Carbon	5/5/22 21:38	5/5/22 21:38		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 11:12	5/9/22 11:12		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:41	5/9/22 13:41		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 12:08	5/17/22 12:08		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 5/2/22 10:40
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BC08550

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0

Comments:

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAPFB
Sample Date: 5/2/22 10:40
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BC08550

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 5/2/22 10:40
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BC08550

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 5/2/22 15:12
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08551

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 10:58		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/5/22 11:50	5/10/22 11:51		10.15	44.1	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 10:58		1.015	0.351	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 10:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 10:58		1.015	24.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 10:58		1	8.84	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 10:58		1.015	4.13	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 10:58		1.015	4.58	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:15		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:10		10.15	50.2	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:15		1.015	0.302	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:15		1.015	23.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:15		1	8.67	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:15		1.015	4.05	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 13:15		1.015	4.20	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:05		1.015	0.00775	mg/L	0.006090	0.01015	J
* Arsenic, Total	5/5/22 08:33	5/5/22 15:05		1.015	0.000428	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 15:05		1.015	0.0414	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 15:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:05		1.015	0.000265	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 15:05		1.015	0.000136	mg/L	0.000068	0.000203	J
* Lead, Total	5/5/22 08:33	5/5/22 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 15:05		1.015	0.112	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:05		1.015	0.000302	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 15:05		1.015	0.287	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 5/2/22 15:12
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08551

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	0.000435	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	0.0411	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	0.000125	mg/L	0.000068	0.000203	J
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	0.109	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	0.000363	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	0.290	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:54	5/5/22 12:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 14:15	5/16/22 14:15		1	270	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	201	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 14:15	5/16/22 14:15		1	267	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 14:15	5/16/22 14:15		1	2.63	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 22:00	5/5/22 22:00		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 5/2/22 15:12
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08551

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 11:13	5/9/22 11:13		1	4.32	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:42	5/9/22 13:42		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 12:09	5/17/22 12:09		1	Not Detected	mg/L	0.6	2	U
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	5/2/22 15:09	5/2/22 15:09			381.94	uS/cm			FA
pH	5/2/22 15:09	5/2/22 15:09			7.46	SU			FA
Temperature	5/2/22 15:09	5/2/22 15:09			20.11	C			FA
Turbidity	5/2/22 15:09	5/2/22 15:09			1.73	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 15:12
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BC08551

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.106	0.108	0.104	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0975	0.0995	0.0946	0.0850 to 0.115	97.5	70.0 to 130	2.03	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.124	0.121	0.104	0.0850 to 0.115	101	70.0 to 130	2.45	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.0984	0.101	0.102	0.0850 to 0.115	98.4	70.0 to 130	2.61	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.57	1.59	1.02	0.850 to 1.15	101	70.0 to 130	1.27	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.101	0.0993	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	57.3	54.2	5.08	4.25 to 5.75	96.0	70.0 to 130	5.56	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.195	0.192	0.202	0.170 to 0.230	97.5	70.0 to 130	1.55	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 15:12
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BC08551

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.192	0.189	0.196	0.170 to 0.230	96.0	70.0 to 130	1.57	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	25.6	25.1	5.12	4.25 to 5.75	98.0	70.0 to 130	1.97	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.140	0.138	0.105	0.0850 to 0.115	101	70.0 to 130	1.44	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	12.3	12.3	10.2	8.50 to 11.5	103	70.0 to 130	0.00	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.62	4.60	1.01	0.850 to 1.15	100	70.0 to 130	0.434	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	12.3	12.0	4.79	4.25 to 5.75	93.2	70.0 to 130	2.47	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 15:12
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BC08551

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 15:12
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BC08551

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 5/3/22 10:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08552

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 11:01		1.015	0.465	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 11:53		10.15	65.3	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 11:01		1.015	0.370	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 11:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 11:01		1.015	37.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 11:01		1	9.05	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 11:01		1.015	4.23	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 11:01		1.015	10.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:18		1.015	0.457	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:13		10.15	70.9	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:18		1.015	0.310	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:18		1.015	36.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:18		1	8.95	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:18		1.015	4.18	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 13:18		1.015	9.15	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 15:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:08		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 15:08		1.015	0.00223	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 15:08		1.015	0.0752	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 15:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/5/22 08:33	5/5/22 15:08		1.015	0.000219	mg/L	0.000068	0.000203	
* Lead, Total	5/5/22 08:33	5/5/22 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 15:08		1.015	0.104	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:08		1.015	0.000331	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 15:08		1.015	0.292	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 5/3/22 10:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08552

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 15:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	0.00205	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	0.0766	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	0.000224	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	0.0995	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	0.000270	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	0.288	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:55	5/5/22 12:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:38	5/16/22 15:49		1	212	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	371	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	210	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	1.76	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 22:18	5/5/22 22:18		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 5/3/22 10:10
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08552

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 11:14	5/9/22 11:14		1	18.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:43	5/9/22 13:43		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 12:11	5/17/22 12:11		5	97.0	mg/L	3.0	10	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	5/3/22 10:09	5/3/22 10:09			463.37	uS/cm			FA
pH	5/3/22 10:09	5/3/22 10:09			7.39	SU			FA
Temperature	5/3/22 10:09	5/3/22 10:09			21.09	C			FA
Turbidity	5/3/22 10:09	5/3/22 10:09			1.2	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BC08552

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.106	0.108	0.104	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0975	0.0995	0.0946	0.0850 to 0.115	97.5	70.0 to 130	2.03	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.124	0.121	0.104	0.0850 to 0.115	101	70.0 to 130	2.45	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.0984	0.101	0.102	0.0850 to 0.115	98.4	70.0 to 130	2.61	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.57	1.59	1.02	0.850 to 1.15	101	70.0 to 130	1.27	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.101	0.0993	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	57.3	54.2	5.08	4.25 to 5.75	96.0	70.0 to 130	5.56	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.195	0.192	0.202	0.170 to 0.230	97.5	70.0 to 130	1.55	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BC08552

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.192	0.189	0.196	0.170 to 0.230	96.0	70.0 to 130	1.57	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	25.6	25.1	5.12	4.25 to 5.75	98.0	70.0 to 130	1.97	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.140	0.138	0.105	0.0850 to 0.115	101	70.0 to 130	1.44	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	12.3	12.3	10.2	8.50 to 11.5	103	70.0 to 130	0.00	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.62	4.60	1.01	0.850 to 1.15	100	70.0 to 130	0.434	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	12.3	12.0	4.79	4.25 to 5.75	93.2	70.0 to 130	2.47	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BC08552

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:10
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BC08552

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 5/2/22 10:18
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08553

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 11:04		1.015	0.0502	mg/L	0.030000	0.1015	J
* Calcium, Total	5/5/22 11:50	5/10/22 11:56		10.15	78.8	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 11:04		1.015	0.853	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 11:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 11:56		10.15	40.5	mg/L	0.21315	4.06	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 11:04		1	13.1	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 11:04		1.015	6.14	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 11:04		1.015	30.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:21		1.015	0.0490	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:16		10.15	90.7	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:21		1.015	0.778	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:21		1.015	39.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:21		1	12.8	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:21		1.015	5.97	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 13:21		1.015	26.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 15:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:12		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 15:12		1.015	0.00548	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 15:12		1.015	0.0734	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 15:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:12		1.015	0.000211	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 15:12		1.015	0.00125	mg/L	0.000068	0.000203	
* Lead, Total	5/5/22 08:33	5/5/22 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 15:12		1.015	0.240	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:12		1.015	0.00195	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 15:12		1.015	0.785	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 5/2/22 10:18
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08553

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 15:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	0.00480	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	0.0718	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	0.00126	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	0.239	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	0.00188	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	0.771	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 16:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:57	5/5/22 12:57		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/13/22 10:15	5/13/22 11:44		1	343	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	412	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	342	mg/L			
Carbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	0.720	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 22:38	5/5/22 22:38		1	1.55	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 5/2/22 10:18
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08553

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	5/9/22 11:25	5/9/22 11:25		2	31.7	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	5/9/22 13:44	5/9/22 13:44		1	0.152	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	5/17/22 12:12	5/17/22 12:12		1	25.1	mg/L	0.6	2	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	5/2/22 10:15	5/2/22 10:15			723.90	uS/cm			FA
pH	5/2/22 10:15	5/2/22 10:15			7.14	SU			FA
Temperature	5/2/22 10:15	5/2/22 10:15			19.77	C			FA
Turbidity	5/2/22 10:15	5/2/22 10:15			1.16	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:18
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BC08553

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.106	0.108	0.104	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0975	0.0995	0.0946	0.0850 to 0.115	97.5	70.0 to 130	2.03	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.124	0.121	0.104	0.0850 to 0.115	101	70.0 to 130	2.45	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.0984	0.101	0.102	0.0850 to 0.115	98.4	70.0 to 130	2.61	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.57	1.59	1.02	0.850 to 1.15	101	70.0 to 130	1.27	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.101	0.0993	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	57.3	54.2	5.08	4.25 to 5.75	96.0	70.0 to 130	5.56	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.195	0.192	0.202	0.170 to 0.230	97.5	70.0 to 130	1.55	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:18
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BC08553

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.192	0.189	0.196	0.170 to 0.230	96.0	70.0 to 130	1.57	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	25.6	25.1	5.12	4.25 to 5.75	98.0	70.0 to 130	1.97	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.140	0.138	0.105	0.0850 to 0.115	101	70.0 to 130	1.44	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	12.3	12.3	10.2	8.50 to 11.5	103	70.0 to 130	0.00	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.62	4.60	1.01	0.850 to 1.15	100	70.0 to 130	0.434	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	12.3	12.0	4.79	4.25 to 5.75	93.2	70.0 to 130	2.47	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:18
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BC08553

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 10:18
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BC08553

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08554	Alkalinity, Total as CaCO3	mg/L					97.3	50.6	45.0 to 55.0			1.97	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 5/2/22 11:48
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08554

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 11:07		1.015	2.36	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 11:59		10.15	93.2	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 11:07		1.015	0.0792	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 11:07		1.015	0.0278	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/5/22 11:50	5/10/22 11:07		1.015	27.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 11:07		1	6.63	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 11:07		1.015	3.10	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 11:59		10.15	52.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:23		1.015	2.30	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:18		10.15	101	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:23		1.015	0.0623	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:23		1.015	0.0268	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:23		1.015	27.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:23		1	6.51	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:23		1.015	3.04	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 14:18		10.15	50.7	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 15:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:15		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	5/5/22 08:33	5/5/22 15:15		1.015	0.000582	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 15:15		1.015	0.0561	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 15:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:15		1.015	0.000275	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 15:15		1.015	0.000275	mg/L	0.000068	0.000203	
* Lead, Total	5/5/22 08:33	5/5/22 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 15:15		1.015	0.284	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:15		1.015	0.144	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 15:15		1.015	6.06	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 5/2/22 11:48
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08554

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 15:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	0.000558	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	0.0563	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	0.000212	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	0.000299	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	0.282	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	0.144	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	6.14	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 12:59	5/5/22 12:59		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/13/22 10:15	5/13/22 11:44		1	95.4	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	574	mg/L		50	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	94.8	mg/L		1	A
Carbonate Alkalinity, (calc.)	5/13/22 10:15	5/13/22 11:44		1	0.575	mg/L		0.5	A
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 22:56	5/5/22 22:56		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 5/2/22 11:48
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08554

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 11:26	5/9/22 11:26		16	79.9	mg/L	8.00	16	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:45	5/9/22 13:45		1	0.080	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 12:13	5/17/22 12:13		16	224	mg/L	9.6	32	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	5/2/22 11:45	5/2/22 11:45			883.92	uS/cm			FA
pH	5/2/22 11:45	5/2/22 11:45			7.49	SU			FA
Temperature	5/2/22 11:45	5/2/22 11:45			20.19	C			FA
Turbidity	5/2/22 11:45	5/2/22 11:45			0.84	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 11:48
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BC08554

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.106	0.108	0.104	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0975	0.0995	0.0946	0.0850 to 0.115	97.5	70.0 to 130	2.03	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.124	0.121	0.104	0.0850 to 0.115	101	70.0 to 130	2.45	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.0984	0.101	0.102	0.0850 to 0.115	98.4	70.0 to 130	2.61	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.57	1.59	1.02	0.850 to 1.15	101	70.0 to 130	1.27	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.101	0.0993	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	57.3	54.2	5.08	4.25 to 5.75	96.0	70.0 to 130	5.56	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.195	0.192	0.202	0.170 to 0.230	97.5	70.0 to 130	1.55	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 11:48
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BC08554

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.192	0.189	0.196	0.170 to 0.230	96.0	70.0 to 130	1.57	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	25.6	25.1	5.12	4.25 to 5.75	98.0	70.0 to 130	1.97	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.140	0.138	0.105	0.0850 to 0.115	101	70.0 to 130	1.44	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	12.3	12.3	10.2	8.50 to 11.5	103	70.0 to 130	0.00	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.62	4.60	1.01	0.850 to 1.15	100	70.0 to 130	0.434	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	12.3	12.0	4.79	4.25 to 5.75	93.2	70.0 to 130	2.47	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 11:48
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BC08554

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 11:48
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BC08554

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08554	Alkalinity, Total as CaCO3	mg/L					97.3	50.6	45.0 to 55.0			1.97	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 5/2/22 14:13
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08555

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 11:10		1.015	0.109	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 12:08		10.15	56.8	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 11:10		1.015	0.0224	mg/L	0.008120	0.0406	J
* Lithium, Total	5/5/22 11:50	5/10/22 11:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 11:10		1.015	31.0	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 11:10		1	9.74	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 11:10		1.015	4.55	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 11:10		1.015	6.48	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:26		1.015	0.106	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:27		10.15	61.4	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:26		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:26		1.015	29.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:26		1	9.52	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:26		1.015	4.45	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 13:26		1.015	5.89	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 15:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:19		1.015	0.0289	mg/L	0.006090	0.01015	
* Arsenic, Total	5/5/22 08:33	5/5/22 15:19		1.015	0.000162	mg/L	0.000081	0.000203	J
* Barium, Total	5/5/22 08:33	5/5/22 15:19		1.015	0.0153	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 15:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:19		1.015	0.000738	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 15:19		1.015	0.00692	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:19		1.015	0.000296	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 15:19		1.015	0.699	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 5/2/22 14:13
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08555

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 15:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	0.000116	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	0.0145	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	0.000615	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	0.00571	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	0.000308	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	0.712	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 17:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 13:00	5/5/22 13:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:50	5/16/22 13:50		1	272	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	248	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:50	5/16/22 13:50		1	270	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:50	5/16/22 13:50		1	1.57	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 23:17	5/5/22 23:17		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 5/2/22 14:13
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08555

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 11:18	5/9/22 11:18		1	8.75	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:47	5/9/22 13:47		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 12:14	5/17/22 12:14		1	11.1	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	5/2/22 14:10	5/2/22 14:10			463.16	uS/cm			FA
pH	5/2/22 14:10	5/2/22 14:10			6.68	SU			FA
Temperature	5/2/22 14:10	5/2/22 14:10			19.58	C			FA
Turbidity	5/2/22 14:10	5/2/22 14:10			2.74	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 14:13
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BC08555

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.106	0.108	0.104	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0975	0.0995	0.0946	0.0850 to 0.115	97.5	70.0 to 130	2.03	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.124	0.121	0.104	0.0850 to 0.115	101	70.0 to 130	2.45	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.0984	0.101	0.102	0.0850 to 0.115	98.4	70.0 to 130	2.61	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.57	1.59	1.02	0.850 to 1.15	101	70.0 to 130	1.27	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.101	0.0993	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	57.3	54.2	5.08	4.25 to 5.75	96.0	70.0 to 130	5.56	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.195	0.192	0.202	0.170 to 0.230	97.5	70.0 to 130	1.55	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 14:13
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BC08555

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.192	0.189	0.196	0.170 to 0.230	96.0	70.0 to 130	1.57	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	25.6	25.1	5.12	4.25 to 5.75	98.0	70.0 to 130	1.97	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.140	0.138	0.105	0.0850 to 0.115	101	70.0 to 130	1.44	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	12.3	12.3	10.2	8.50 to 11.5	103	70.0 to 130	0.00	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.62	4.60	1.01	0.850 to 1.15	100	70.0 to 130	0.434	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	12.3	12.0	4.79	4.25 to 5.75	93.2	70.0 to 130	2.47	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/2/22 14:13
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BC08555

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/2/22 14:13
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BC08555

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 5/3/22 08:45
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08556

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 11:13		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/5/22 11:50	5/10/22 11:13		1.015	29.9	mg/L	0.070035	0.406	
* Iron, Total	5/5/22 11:50	5/10/22 11:13		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/5/22 11:50	5/10/22 11:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 11:13		1.015	17.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 11:13		1	7.92	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 11:13		1.015	3.70	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 11:13		1.015	2.23	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/5/22 11:28	5/10/22 13:29		1.015	31.6	mg/L	0.070035	0.406	
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:29		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:29		1.015	16.6	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:29		1	7.64	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:29		1.015	3.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 13:29		1.015	1.90	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:22		1.015	0.0288	mg/L	0.006090	0.01015	
* Arsenic, Total	5/5/22 08:33	5/5/22 15:22		1.015	0.000577	mg/L	0.000081	0.000203	
* Barium, Total	5/5/22 08:33	5/5/22 15:22		1.015	0.0222	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 15:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:22		1.015	0.000438	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/5/22 08:33	5/5/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/5/22 08:33	5/5/22 15:22		1.015	0.00126	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:22		1.015	0.00439	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 15:22		1.015	0.241	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 5/3/22 08:45
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08556

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:22		1.015	0.000358	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	0.000549	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	0.0206	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	0.000292	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	0.000259	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	0.00436	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	0.223	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 17:09		1.015	0.000323	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 13:01	5/5/22 13:01		1	0.243	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:38	5/16/22 15:49		1	155	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	141	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	153	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	1.69	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 23:35	5/5/22 23:35		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 5/3/22 08:45
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08556

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 11:19	5/9/22 11:19		1	1.67	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:48	5/9/22 13:48		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 12:16	5/17/22 12:16		1	2.16	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	5/3/22 08:42	5/3/22 08:42			250.96	uS/cm			FA
pH	5/3/22 08:42	5/3/22 08:42			7.72	SU			FA
Temperature	5/3/22 08:42	5/3/22 08:42			18.83	C			FA
Turbidity	5/3/22 08:42	5/3/22 08:42			0.71	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 08:45
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BC08556

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.106	0.108	0.104	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0975	0.0995	0.0946	0.0850 to 0.115	97.5	70.0 to 130	2.03	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.124	0.121	0.104	0.0850 to 0.115	101	70.0 to 130	2.45	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.0984	0.101	0.102	0.0850 to 0.115	98.4	70.0 to 130	2.61	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.57	1.59	1.02	0.850 to 1.15	101	70.0 to 130	1.27	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.101	0.0993	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	57.3	54.2	5.08	4.25 to 5.75	96.0	70.0 to 130	5.56	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.195	0.192	0.202	0.170 to 0.230	97.5	70.0 to 130	1.55	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 08:45
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BC08556

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.192	0.189	0.196	0.170 to 0.230	96.0	70.0 to 130	1.57	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	25.6	25.1	5.12	4.25 to 5.75	98.0	70.0 to 130	1.97	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.140	0.138	0.105	0.0850 to 0.115	101	70.0 to 130	1.44	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	12.3	12.3	10.2	8.50 to 11.5	103	70.0 to 130	0.00	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.62	4.60	1.01	0.850 to 1.15	100	70.0 to 130	0.434	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	12.3	12.0	4.79	4.25 to 5.75	93.2	70.0 to 130	2.47	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 08:45
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BC08556

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/3/22 08:45
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BC08556

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 5/3/22 10:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08557

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	5/5/22 11:50	5/10/22 11:16		1.015	0.562	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 12:11		10.15	56.6	mg/L	0.70035	4.06	
* Iron, Total	5/5/22 11:50	5/10/22 11:16		1.015	0.0377	mg/L	0.008120	0.0406	J
* Lithium, Total	5/5/22 11:50	5/10/22 11:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 11:16		1.015	21.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 11:16		1	8.02	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 11:16		1.015	3.75	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 11:16		1.015	8.62	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:32		1.015	0.551	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:30		10.15	55.4	mg/L	0.70035	4.06	
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:32		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:32		1.015	20.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:32		1	7.73	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:32		1.015	3.61	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 13:32		1.015	7.74	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/5/22 08:33	5/5/22 15:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:26		1.015	0.103	mg/L	0.006090	0.01015	
* Arsenic, Total	5/5/22 08:33	5/5/22 15:26		1.015	0.000154	mg/L	0.000081	0.000203	J
* Barium, Total	5/5/22 08:33	5/5/22 15:26		1.015	0.0219	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 15:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:26		1.015	0.000335	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 15:26		1.015	0.0000885	mg/L	0.000068	0.000203	J
* Lead, Total	5/5/22 08:33	5/5/22 15:26		1.015	0.000102	mg/L	0.000068	0.000203	J
* Manganese, Total	5/5/22 08:33	5/5/22 15:26		1.015	0.00115	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:26		1.015	0.0389	mg/L	0.000102	0.000203	
* Potassium, Total	5/5/22 08:33	5/5/22 15:26		1.015	2.16	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 5/3/22 10:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08557

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 15:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	0.000117	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	0.0225	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	0.000179	mg/L	0.000152	0.000203	J
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	0.0389	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	2.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 17:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 13:02	5/5/22 13:02		1	0.903	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:38	5/16/22 15:49		1	178	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	239	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	176	mg/L		1	
Carbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	2.33	mg/L		0.5	
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/5/22 23:57	5/5/22 23:57		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 5/3/22 10:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08557

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 11:20	5/9/22 11:20		1	12.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:49	5/9/22 13:49		1	0.0648	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 12:17	5/17/22 12:17		1	34.0	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	5/3/22 10:12	5/3/22 10:12			399.87	uS/cm			FA
pH	5/3/22 10:12	5/3/22 10:12			7.01	SU			FA
Temperature	5/3/22 10:12	5/3/22 10:12			20.10	C			FA
Turbidity	5/3/22 10:12	5/3/22 10:12			3.52	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BC08557

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.106	0.108	0.104	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0975	0.0995	0.0946	0.0850 to 0.115	97.5	70.0 to 130	2.03	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.124	0.121	0.104	0.0850 to 0.115	101	70.0 to 130	2.45	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.0984	0.101	0.102	0.0850 to 0.115	98.4	70.0 to 130	2.61	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.57	1.59	1.02	0.850 to 1.15	101	70.0 to 130	1.27	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.101	0.0993	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	57.3	54.2	5.08	4.25 to 5.75	96.0	70.0 to 130	5.56	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.195	0.192	0.202	0.170 to 0.230	97.5	70.0 to 130	1.55	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BC08557

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.192	0.189	0.196	0.170 to 0.230	96.0	70.0 to 130	1.57	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	25.6	25.1	5.12	4.25 to 5.75	98.0	70.0 to 130	1.97	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.140	0.138	0.105	0.0850 to 0.115	101	70.0 to 130	1.44	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	12.3	12.3	10.2	8.50 to 11.5	103	70.0 to 130	0.00	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.62	4.60	1.01	0.850 to 1.15	100	70.0 to 130	0.434	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	12.3	12.0	4.79	4.25 to 5.75	93.2	70.0 to 130	2.47	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BC08557

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BC08557

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-5 Dup

Location Code: WMWGASAP
Collected: 5/3/22 10:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08558

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***					***Preparation Method: EPA 1638***			
* Boron, Total	5/5/22 11:50	5/10/22 11:19		1.015	0.565	mg/L	0.030000	0.1015	
* Calcium, Total	5/5/22 11:50	5/10/22 12:14		10.15	48.2	mg/L	0.70035	4.06	RA
* Iron, Total	5/5/22 11:50	5/10/22 11:19		1.015	0.0468	mg/L	0.008120	0.0406	
* Lithium, Total	5/5/22 11:50	5/10/22 11:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/5/22 11:50	5/10/22 11:19		1.015	21.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/5/22 11:50	5/10/22 11:19		1	8.07	mg/L			
Silicon, Total	5/5/22 11:50	5/10/22 11:19		1.015	3.77	mg/L	0.02030	0.25375	
* Sodium, Total	5/5/22 11:50	5/10/22 11:19		1.015	8.56	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Boron, Dissolved	5/5/22 11:28	5/10/22 13:35		1.015	0.557	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/5/22 11:28	5/10/22 14:33		10.15	52.5	mg/L	0.70035	4.06	RA
* Iron, Dissolved	5/5/22 11:28	5/10/22 13:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/5/22 11:28	5/10/22 13:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/5/22 11:28	5/10/22 13:35		1.015	20.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/5/22 11:28	5/10/22 13:35		1	7.75	mg/L			
Silicon, Dissolved	5/5/22 11:28	5/10/22 13:35		1.015	3.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/5/22 11:28	5/10/22 13:35		1.015	7.64	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8	***Analyst: DLJ***					***Preparation Method: EPA 1638***			
* Antimony, Total	5/5/22 08:33	5/5/22 15:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	5/5/22 08:33	5/5/22 15:29		1.015	0.0996	mg/L	0.006090	0.01015	R
* Arsenic, Total	5/5/22 08:33	5/5/22 15:29		1.015	0.000164	mg/L	0.000081	0.000203	J
* Barium, Total	5/5/22 08:33	5/5/22 15:29		1.015	0.0230	mg/L	0.000508	0.001015	
* Beryllium, Total	5/5/22 08:33	5/5/22 15:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/5/22 08:33	5/5/22 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/5/22 08:33	5/5/22 15:29		1.015	0.000391	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/5/22 08:33	5/5/22 15:29		1.015	0.0000938	mg/L	0.000068	0.000203	J
* Lead, Total	5/5/22 08:33	5/5/22 15:29		1.015	0.000099	mg/L	0.000068	0.000203	J
* Manganese, Total	5/5/22 08:33	5/5/22 15:29		1.015	0.00114	mg/L	0.000152	0.000203	
* Molybdenum, Total	5/5/22 08:33	5/5/22 15:29		1.015	0.0407	mg/L	0.000102	0.000203	R
* Potassium, Total	5/5/22 08:33	5/5/22 15:29		1.015	2.09	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-5 Dup

Location Code: WMWGASAP
Collected: 5/3/22 10:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08558

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	5/5/22 08:33	5/5/22 15:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/5/22 08:33	5/5/22 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	0.000110	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	0.0230	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	0.000228	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	0.000220	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	0.0389	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	2.01	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/5/22 08:38	5/5/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1	***Analyst: CRB***								
* Mercury, Total by CVAA	5/5/22 16:13	5/5/22 21:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	5/5/22 13:02	5/5/22 13:02		1	0.918	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B	***Analyst: ALH***								
Alkalinity, Total as CaCO3	5/16/22 13:38	5/16/22 15:49		1	176	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: CNJ***								
* Solids, Dissolved	5/4/22 13:40	5/5/22 13:41		1	236	mg/L		25	
Analytical Method: SM 4500CO2 D	***Analyst: ALH***								
Bicarbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	174	mg/L			
Carbonate Alkalinity, (calc.)	5/16/22 13:38	5/16/22 15:49		1	2.11	mg/L			
Analytical Method: SM 5310 B	***Analyst: ELH***								
* Total Organic Carbon	5/6/22 00:15	5/6/22 00:15		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Gaston Ash Pond - MW-5 Dup

Location Code: WMWGASAP
Collected: 5/3/22 10:15
Customer ID:
Submittal Date: 5/4/22 08:43

Laboratory ID Number: BC08558

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/9/22 11:22	5/9/22 11:22		1	12.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/9/22 13:50	5/9/22 13:50		1	0.0656	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/17/22 12:18	5/17/22 12:18		1	33.7	mg/L	0.6	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	5/3/22 10:12	5/3/22 10:12			399.87	uS/cm			FA
pH	5/3/22 10:12	5/3/22 10:12			7.01	SU			FA
Temperature	5/3/22 10:12	5/3/22 10:12			20.10	C			FA
Turbidity	5/3/22 10:12	5/3/22 10:12			3.52	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-5 Dup

Laboratory ID Number: BC08558

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Aluminum, Dissolved	mg/L	0.000632	0.010	0.100	0.106	0.108	0.104	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC08558	Aluminum, Total	mg/L	0.000714	0.010	0.100	0.135	0.134	0.0985	0.0850 to 0.115	35.4	70.0 to 130	0.743	20.0
BC08558	Antimony, Dissolved	mg/L	0.000337	0.00100	0.100	0.0975	0.0995	0.0946	0.0850 to 0.115	97.5	70.0 to 130	2.03	20.0
BC08558	Antimony, Total	mg/L	0.000426	0.00100	0.100	0.0939	0.0952	0.0932	0.0850 to 0.115	93.9	70.0 to 130	1.37	20.0
BC08558	Arsenic, Dissolved	mg/L	0.000012	0.000176	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC08558	Arsenic, Total	mg/L	0.0000204	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.995	20.0
BC08558	Barium, Dissolved	mg/L	-0.0000074	0.00100	0.100	0.124	0.121	0.104	0.0850 to 0.115	101	70.0 to 130	2.45	20.0
BC08558	Barium, Total	mg/L	-0.0000136	0.00100	0.100	0.119	0.115	0.101	0.0850 to 0.115	96.0	70.0 to 130	3.42	20.0
BC08558	Beryllium, Dissolved	mg/L	0.0000134	0.000880	0.100	0.0984	0.101	0.102	0.0850 to 0.115	98.4	70.0 to 130	2.61	20.0
BC08558	Beryllium, Total	mg/L	0.0000162	0.000880	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC08558	Boron, Dissolved	mg/L	-0.000018	0.0650	1.00	1.57	1.59	1.02	0.850 to 1.15	101	70.0 to 130	1.27	20.0
BC08558	Boron, Total	mg/L	0.000126	0.0650	1.00	1.60	1.60	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC08558	Cadmium, Dissolved	mg/L	-0.0000034	0.000147	0.100	0.100	0.101	0.0993	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC08558	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.101	0.0980	0.0968	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BC08558	Calcium, Dissolved	mg/L	-0.000674	0.152	5.00	57.3	54.2	5.08	4.25 to 5.75	96.0	70.0 to 130	5.56	20.0
BC08558	Calcium, Total	mg/L	0.00406	0.152	5.00	52.8	51.5	4.90	4.25 to 5.75	92.0	70.0 to 130	2.49	20.0
BC08558	Chloride	mg/L	0.213	1.00	10.0	23.0	22.9	9.56	9.00 to 11.0	102	80.0 to 120	0.436	20.0
BC08558	Chromium, Dissolved	mg/L	-0.0000472	0.000440	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC08558	Chromium, Total	mg/L	-0.0000313	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC08558	Cobalt, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC08558	Fluoride	mg/L	0.0279	0.125	2.50	2.74	2.72	2.72	2.25 to 2.75	107	80.0 to 120	0.733	20.0
BC08558	Iron, Dissolved	mg/L	0.000159	0.0176	0.2	0.195	0.192	0.202	0.170 to 0.230	97.5	70.0 to 130	1.55	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-5 Dup

Laboratory ID Number: BC08558

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Iron, Total	mg/L	0.000951	0.0176	0.2	0.250	0.265	0.204	0.170 to 0.230	102	70.0 to 130	5.83	20.0
BC08558	Lead, Dissolved	mg/L	0.0000019	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC08558	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC08558	Lithium, Dissolved	mg/L	0.00011	0.0154	0.200	0.192	0.189	0.196	0.170 to 0.230	96.0	70.0 to 130	1.57	20.0
BC08558	Lithium, Total	mg/L	-0.000133	0.0154	0.200	0.216	0.214	0.206	0.170 to 0.230	108	70.0 to 130	0.930	20.0
BC08558	Magnesium, Dissolved	mg/L	0.00105	0.0462	5.00	25.6	25.1	5.12	4.25 to 5.75	98.0	70.0 to 130	1.97	20.0
BC08558	Magnesium, Total	mg/L	-0.000079	0.0462	5.00	26.9	26.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC08558	Manganese, Dissolved	mg/L	0.0000013	0.0002	0.100	0.103	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC08558	Manganese, Total	mg/L	-0.0000017	0.0002	0.100	0.108	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	1.87	20.0
BC08558	Mercury, Total by CVAA	mg/L	-5.000E-05	0.000500	0.004	0.00388	0.00386	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.517	20.0
BC08558	Molybdenum, Dissolved	mg/L	-0.0000007	0.0002	0.100	0.140	0.138	0.105	0.0850 to 0.115	101	70.0 to 130	1.44	20.0
BC08558	Molybdenum, Total	mg/L	0.0000034	0.0002	0.100	0.106	0.103	0.0979	0.0850 to 0.115	65.3	70.0 to 130	2.87	20.0
BC08558	Potassium, Dissolved	mg/L	-0.00791	0.367	10.0	12.3	12.3	10.2	8.50 to 11.5	103	70.0 to 130	0.00	20.0
BC08558	Potassium, Total	mg/L	-0.00103	0.367	10.0	11.0	10.8	10.1	8.50 to 11.5	89.1	70.0 to 130	1.83	20.0
BC08558	Selenium, Dissolved	mg/L	0.0000362	0.00100	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC08558	Selenium, Total	mg/L	0.000092	0.00100	0.100	0.102	0.0985	0.104	0.0850 to 0.115	102	70.0 to 130	3.49	20.0
BC08558	Silicon, Dissolved	mg/L	-0.000541	0.0440	1.00	4.62	4.60	1.01	0.850 to 1.15	100	70.0 to 130	0.434	20.0
BC08558	Silicon, Total	mg/L	0.000604	0.0440	1.00	4.90	4.99	1.03	0.850 to 1.15	113	70.0 to 130	1.82	20.0
BC08558	Sodium, Dissolved	mg/L	0.000643	0.0660	5.00	12.3	12.0	4.79	4.25 to 5.75	93.2	70.0 to 130	2.47	20.0
BC08558	Sodium, Total	mg/L	0.00146	0.0660	5.00	13.8	13.7	5.15	4.25 to 5.75	105	70.0 to 130	0.727	20.0
BC08558	Sulfate	mg/L	0.0919	2.0	20.0	50.8	49.9	18.1	18.0 to 22.0	85.5	80.0 to 120	1.79	20.0
BC08558	Thallium, Dissolved	mg/L	-0.0000119	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-5 Dup

Laboratory ID Number: BC08558

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Thallium, Total	mg/L	-0.0000098	0.000147	0.100	0.0993	0.102	0.0995	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BC08558	Total Organic Carbon	mg/L	0.200	1.00	10.0	10.2	10.6	9.58		102	80.0 to 120	3.85	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Reported: 6/1/2022
Version: 3.5
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Alabama Power

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 5/3/22 10:15
Customer ID:
Delivery Date: 5/4/22 08:43

Description: Gaston Ash Pond - MW-5 Dup

Laboratory ID Number: BC08558

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC08558	Alkalinity, Total as CaCO3	mg/L					182	50.3	45.0 to 55.0			3.35	10.0
BC08558	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.81	1.04	1.96	1.80 to 2.20	94.6	90.0 to 110	12.5	15.0
BC08558	Solids, Dissolved	mg/L	1.00	25.0			241	48.0	40.0 to 60.0			2.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
(205) 664-6001

Definitions

Alabama Power

Project Number: WMWGASAP_1360

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles													
1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: NO3/NO2; TOC pH < 2 SU.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-42	04/19/2022	10:42	7	Groundwater		BC07764
MW-42 dup	04/19/2022	10:42	7	Sample Duplicate		BC07765
MW-38	04/19/2022	12:01	7	Groundwater		BC07766
MW-41	04/19/2022	13:29	7	Groundwater		BC07767
MW-40	04/19/2022	14:33	7	Groundwater		BC07768
MW-39	04/19/2022	15:30	7	Groundwater		BC07769
FB-1	04/19/2022	16:05	5	Field Blank		BC07770
MW-23D	04/20/2022	10:52	7	Groundwater		BC07771
MW-23S	04/20/2022	12:01	7	Groundwater		BC07772
MW-26	04/20/2022	13:36	7	Groundwater		BC07773

Relinquished By	Received By	Date/Time
		04/21/2022 08:48

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	1.6 °C
Sample Event	1360	Thermometer ID	7044-38281-2-1
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

8.0

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles													
	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: NO3/NO2; TOC pH < 2 SU.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-20V	04/19/2022	12:25	7	Groundwater		BC07755
MW-20V Dis	04/19/2022	12:25	6	Field Filtered		BC07756
MW-19	04/19/2022	15:45	7	Groundwater		BC07757
MW-20SV	04/20/2022	10:55	7	Groundwater		BC07758
MW-20SV Dup	04/20/2022	10:55	7	Sample Duplicate		BC07759
MW-20	04/20/2022	12:03	7	Groundwater		BC07760
MW-17	04/20/2022	13:38	7	Groundwater		BC07761
MW-17SV	04/20/2022	14:40	7	Groundwater		BC07762
FB-2	04/20/2022	15:15	5	Field Blank		BC07763

Relinquished By	Received By	Date/Time
		04/21/2022 08:48

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20009-2-1	Cooler Temp	1.5 °C
Sample Event	1360	Thermometer ID	7044-38281-2-1
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

8.0

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles													
1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: NO3/NO2; TOC pH < 2 SU TBC 04/28/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36V	04/26/2022	10:15	7	Groundwater		BC08175
MW-33V	04/26/2022	11:43	7	Groundwater		BC08176
MW-37V	04/26/2022	13:25	7	Groundwater		BC08177
MW-32V	04/26/2022	14:41	7	Groundwater		BC08178
FB-3	04/26/2022	15:30	5	Field Blank		BC08179
MW-34V	04/27/2022	08:55	7	Groundwater		BC08180
MW-35V	04/27/2022	10:24	7	Groundwater		BC08181
MW-31VR	04/27/2022	13:49	7	Groundwater		BC08182

Relinquished By	Received By	Date/Time
Dallas Gentry	Brooke Cotton	04/28/2022 07:51

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	2.0 °C
Sample Event	1360	Thermometer ID	7044-38281-2-1
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles													
	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: NO3/NO2; TOC pH < 2 SU TBC 04/28/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18	04/26/2022	11:30	7	Groundwater		BC08183
MW-17V	04/26/2022	13:22	7	Groundwater		BC08184
MW-29H	04/26/2022	15:30	7	Groundwater		BC08185
MW-16V	04/27/2022	10:25	7	Groundwater		BC08186
MW-16	04/27/2022	12:05	7	Groundwater		BC08187
MW-28H	04/27/2022	13:25	7	Groundwater		BC08188
MW-28H Dup	04/27/2022	13:25	7	Sample Duplicate		BC08189
MW-14	04/27/2022	15:15	7	Groundwater		BC08190
FB-4	04/27/2022	16:00	5	Field Blank		BC08191

Relinquished By	Received By	Date/Time
		04/28/2022 07:51

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	1.9 °C
Sample Event	1360	Thermometer ID	7044-38281-2-1
		pH Strip ID	8206-45802-10-6

Bottles/Pre-Preserved Bottles are provided by the GTL

8.0

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles													
1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: NO3/NO2, TOC pH <2 SU. RJ 5/4/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-30H	05/02/2022	10:18	7	Groundwater		BC08553
MW-15R	05/02/2022	11:48	7	Groundwater		BC08554
MW-4	05/02/2022	14:13	7	Groundwater		BC08555
MW-3	05/03/2022	08:45	7	Groundwater		BC08556
MW-5	05/03/2022	10:15	7	Groundwater		BC08557
MW-5 dup	05/03/2022	10:15	7	Sample Duplicate		BC08558

Relinquished By	Received By	Date/Time
		05/04/2022 08:17

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	1.6 °C
Sample Event	1360	Thermometer ID	7044-38281-2-1
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody Groundwater

APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab

☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles													
	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: NO3/NO2, TOC pH <2 SU. RJ 5/4/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8	05/02/2022	10:20	7	Groundwater		BC08539
MW-9	05/02/2022	12:10	7	Groundwater		BC08540
MW-10	05/02/2022	14:15	7	Groundwater		BC08541
MW-11	05/02/2022	16:05	7	Groundwater		BC08542
MW-7	05/03/2022	09:55	7	Groundwater		BC08543
MW-6	05/03/2022	11:00	7	Groundwater		BC08544
MW-21	05/03/2022	12:10	7	Groundwater		BC08545
MW-22	05/03/2022	13:20	7	Groundwater		BC08546
EB-1	05/03/2022	13:45	5	Equipment Blank		BC08547

Relinquished By	Received By	Date/Time
		05/04/2022 08:11

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	1.7 °C
Sample Event	1360	Thermometer ID	7044-38281-2-1
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Anthony Goggins	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles												
1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
2	Dissolved Metals	500 mL	4	Nitrate/Nitrite;TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: NO3/NO2, TOC pH <2 SU. RJ 5/4/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-27	05/02/2022	10:24	7	Groundwater		BC08548
MW-27DUP	05/02/2022	10:24	7	Sample Duplicate		BC08549
FB-5	05/02/2022	10:40	5	Field Blank		BC08550
MW-13	05/02/2022	15:12	7	Groundwater		BC08551
MW-12	05/03/2022	10:10	7	Groundwater		BC08552

Relinquished By	Received By	Date/Time
		05/04/2022 08:25

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23343-4-2	Cooler Temp	1.5 ° C
Sample Event	1360	Thermometer ID	7044-38281-2-1
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

8.0

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium MS/MSD collected at MW-38

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-42	04/19/2022	10:42	1	Groundwater		BC07783
MW-42 dup	04/19/2022	10:42	1	Sample Duplicate		BC07784
MW-38	04/19/2022	12:01	3	Groundwater		BC07785
MW-41	04/19/2022	13:29	1	Groundwater		BC07786
MW-40	04/19/2022	14:33	1	Groundwater		BC07787
MW-39	04/19/2022	15:30	1	Groundwater		BC07788
FB-1	04/19/2022	16:05	1	Field Blank		BC07789
MW-23D	04/20/2022	10:52	1	Groundwater		BC07790
MW-23S	04/20/2022	12:01	1	Groundwater		BC07791
MW-26	04/20/2022	13:36	1	Groundwater		BC07792

Relinquished By	Received By	Date/Time
Dallas Gentry	Brushe Cotton	04/21/2022 08:48

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	N/A
Sample Event	1360	Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody Groundwater

APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles												
1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Rad MS/MSD collected @ MW-17

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-20V	04/19/2022	12:25	1	Groundwater		BC07774
MW-20V Dis	04/19/2022	12:25	1	Field Filtered		BC07775
MW-19	04/19/2022	15:45	1	Groundwater		BC07776
MW-20SV	04/20/2022	10:55	1	Groundwater		BC07777
MW-20SV Dup	04/20/2022	10:55	1	Sample Duplicate		BC07778
MW-20	04/20/2022	12:03	1	Groundwater		BC07779
MW-17	04/20/2022	13:38	3	Groundwater		BC07780
MW-17SV	04/20/2022	14:40	1	Groundwater		BC07781
FB-2	04/20/2022	15:15	1	Field Blank		BC07782

Relinquished By	Received By	Date/Time
		04/21/2022 08:48

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20009-2-1	Cooler Temp	N/A
Sample Event	1360	Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36V	04/26/2022	10:15	1	Groundwater		BC08192
MW-33V	04/26/2022	11:43	1	Groundwater		BC08193
MW-37V	04/26/2022	13:25	1	Groundwater		BC08194
MW-32V	04/26/2022	14:41	1	Groundwater		BC08195
FB-3	04/26/2022	15:30	1	Field Blank		BC08196
MW-34V	04/27/2022	08:55	1	Groundwater		BC08197
MW-35V	04/27/2022	10:24	1	Groundwater		BC08198
MW-31VR	04/27/2022	13:49	1	Groundwater		BC08199

Relinquished By	Received By	Date/Time
		04/28/2022 07:51

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	N/A
Sample Event	1360	Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Outside Lab
☑ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18	04/26/2022	11:30	1	Groundwater		BC08200
MW-17V	04/26/2022	13:22	1	Groundwater		BC08201
MW-29H	04/26/2022	15:30	1	Groundwater		BC08202
MW-16V	04/27/2022	10:25	1	Groundwater		BC08203
MW-16	04/27/2022	12:05	1	Groundwater		BC08204
MW-28H	04/27/2022	13:25	1	Groundwater		BC08205
MW-28H Dup	04/27/2022	13:25	1	Sample Duplicate		BC08206
MW-14	04/27/2022	15:15	1	Groundwater		BC08207
FB-4	04/27/2022	16:00	1	Field Blank		BC08208

Relinquished By	Received By	Date/Time
		04/28/2022 07:51

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	N/A
Sample Event	1360	Thermometer ID	N/A
		pH Strip ID	8206-45802-10-6

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles												
1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Rad MS/MSD collected @ MW-6

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8	05/02/2022	10:20	1	Groundwater		BC08559
MW-9	05/02/2022	12:10	1	Groundwater		BC08560
MW-10	05/02/2022	14:15	1	Groundwater		BC08561
MW-11	05/02/2022	16:05	1	Groundwater		BC08562
MW-7	05/03/2022	09:55	1	Groundwater		BC08563
MW-6	05/03/2022	11:00	3	Groundwater		BC08564
MW-21	05/03/2022	12:10	1	Groundwater		BC08565
MW-22	05/03/2022	13:20	1	Groundwater		BC08566
EB-1	05/03/2022	13:45	1	Equipment Blank		BC08567

Relinquished By	Received By	Date/Time
		05/04/2022 08:11

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	N/A
Sample Event	1360	Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-30H	05/02/2022	10:18	1	Groundwater		BC08573
MW-15R	05/02/2022	11:48	1	Groundwater		BC08574
MW-4	05/02/2022	14:13	1	Groundwater		BC08575
MW-3	05/03/2022	08:45	1	Groundwater		BC08576
MW-5	05/03/2022	10:15	1	Groundwater		BC08577
MW-5 dup	05/03/2022	10:15	1	Sample Duplicate		BC08578

Relinquished By	Received By	Date/Time
		05/04/2022 08:17

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	☑
Turbidity ID	3901-20010-2-2	Cooler Temp	N/A
Sample Event	1360	Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Anthony Goggins	Requested By	Greg Dyer
		Location	Gaston Ash Pond

Bottles															
	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-27	05/02/2022	10:24	1	Groundwater		BC08568
MW-27DUP	05/02/2022	10:24	1	Sample Duplicate		BC08569
FB-5	05/02/2022	10:40	1	Field Blank		BC08570
MW-13	05/02/2022	15:12	1	Groundwater		BC08571
MW-12	05/03/2022	10:10	1	Groundwater		BC08572

Relinquished By	Received By	Date/Time
		05/04/2022 08:25

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23343-	Cooler Temp	N/A
Sample Event	1360	Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

July 05, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGASAP_1360
Pace Project No.: 30487979

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 2022. 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

(Greensburg, PA) - Revision 1 - This report replaces the 6/21/22 report. This project was revised on 7/5/22 in order to correct sample times.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: WMWGASAP_1360
Pace Project No.: 30487979

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30487979001	BC07774 MW-20V	Water	04/19/22 12:25	05/09/22 09:30
30487979002	BC07775 MW-20V Dis	Water	04/19/22 12:25	05/09/22 09:30
30487979003	BC07776 MW-19	Water	04/19/22 15:45	05/09/22 09:30
30487979004	BC07777 MW-20SV	Water	04/20/22 10:55	05/09/22 09:30
30487979005	BC07778 MW-20SV Dup	Water	04/20/22 10:55	05/09/22 09:30
30487979006	BC07779 MW-20	Water	04/20/22 12:03	05/09/22 09:30
30487979007	BC07780 MW-17	Water	04/20/22 13:38	05/09/22 09:30
30487979008	BC07780 MW-17 MS	Water	04/20/22 13:38	05/09/22 09:30
30487979009	BC07780 MW-17 MSD	Water	04/20/22 13:38	05/09/22 09:30
30487979010	BC07781 MW-17SV	Water	04/20/22 14:40	05/09/22 09:30
30487979011	BC07782 FB-2	Water	04/20/22 15:15	05/09/22 09:30
30487979012	BC07783 MW-42	Water	04/19/22 10:42	05/09/22 09:30
30487979013	BC07784 MW-42 Dup	Water	04/19/22 10:42	05/09/22 09:30
30487979014	BC07785 MW-38	Water	04/19/22 12:01	05/09/22 09:30
30487979015	BC07785 MW-38 MS	Water	04/19/22 12:01	05/09/22 09:30
30487979016	BC07785 MW-38 MSD	Water	04/19/22 12:01	05/09/22 09:30
30487979017	BC07786 MW-41	Water	04/19/22 13:29	05/09/22 09:30
30487979018	BC07787 MW-40	Water	04/19/22 14:33	05/09/22 09:30
30487979019	BC07788 MW-39	Water	04/19/22 15:30	05/09/22 09:30
30487979020	BC07789 FB-1	Water	04/19/22 16:05	05/09/22 09:30
30487979021	BC07790 MW-23D	Water	04/20/22 10:52	05/09/22 09:30
30487979022	BC07791 MW-23S	Water	04/20/22 12:01	05/09/22 09:30
30487979023	BC07792 MW-26	Water	04/20/22 13:36	05/09/22 09:30
30487979024	BC08192 MW-36V	Water	04/26/22 10:15	05/09/22 09:30
30487979025	BC08193 MW-33V	Water	04/26/22 11:43	05/09/22 09:30
30487979026	BC08194 MW-37V	Water	04/26/22 13:25	05/09/22 09:30
30487979027	BC08195 MW-32V	Water	04/26/22 14:41	05/09/22 09:30
30487979028	BC08196 FB-3	Water	04/26/22 15:30	05/09/22 09:30
30487979029	BC08197 MW-34V	Water	04/27/22 08:55	05/09/22 09:30
30487979030	BC08198 MW-35V	Water	04/27/22 10:24	05/09/22 09:30
30487979031	BC08199 MW-31VR	Water	04/27/22 13:49	05/09/22 09:30
30487979032	BC08200 MW-18	Water	04/26/22 11:30	05/09/22 09:30
30487979033	BC08201 MW-17V	Water	04/26/22 13:22	05/09/22 09:30
30487979034	BC08202 MW-29H	Water	04/26/22 15:30	05/09/22 09:30
30487979035	BC08203 MW-16V	Water	04/27/22 10:25	05/09/22 09:30
30487979036	BC08204 MW-16	Water	04/27/22 12:05	05/09/22 09:30
30487979037	BC08205 MW-28H	Water	04/27/22 13:25	05/09/22 09:30

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30487979038	**BC08206 MW-28H Dup**	Water	04/27/22 13:25	05/09/22 09:30
30487979039	**BC08207 MW-14**	Water	04/27/22 15:15	05/09/22 09:30
30487979040	**BC08208 FB-4**	Water	04/27/22 16:00	05/09/22 09:30
30487979041	**BC08559 MW-8**	Water	05/02/22 10:20	05/09/22 09:30
30487979042	**BC08560 MW-9**	Water	05/02/22 12:10	05/09/22 09:30
30487979043	**BC08561 MW-10**	Water	05/02/22 14:15	05/09/22 09:30
30487979044	**BC08562 MW-11**	Water	05/02/22 16:05	05/09/22 09:30
30487979045	**BC08563 MW-7**	Water	05/03/22 09:55	05/09/22 09:30
30487979046	**BC08564 MW-6**	Water	05/03/22 11:00	05/09/22 09:30
30487979047	**BC08564 MW-6 MS**	Water	05/03/22 11:00	05/09/22 09:30
30487979048	**BC08564 MW-6 MSD**	Water	05/03/22 11:00	05/09/22 09:30
30487979049	**BC08565 MW-21**	Water	05/03/22 12:10	05/09/22 09:30
30487979050	**BC08566 MW-22**	Water	05/03/22 13:20	05/09/22 09:30
30487979051	**BC08567 EB-1**	Water	05/03/22 13:45	05/09/22 09:30
30487979052	**BC08568 MW-27**	Water	05/02/22 10:24	05/09/22 09:30
30487979053	**BC08569 MW-27 Dup**	Water	05/02/22 10:24	05/09/22 09:30
30487979054	**BC08570 FB-5**	Water	05/02/22 10:40	05/09/22 09:30
30487979055	**BC08571 MW-13**	Water	05/02/22 15:12	05/09/22 09:30
30487979056	**BC08572 MW-12**	Water	05/03/22 10:10	05/09/22 09:30
30487979057	**BC08573 MW-30H**	Water	05/02/22 10:18	05/09/22 09:30
30487979058	**BC08574 MW-15R**	Water	05/02/22 11:48	05/09/22 09:30
30487979059	**BC08575 MW-4**	Water	05/02/22 14:13	05/09/22 09:30
30487979060	**BC08576 MW-3**	Water	05/03/22 08:45	05/09/22 09:30
30487979061	**BC08577 MW-5**	Water	05/03/22 10:15	05/09/22 09:30
30487979062	**BC08578 MW-5 Dup**	Water	05/03/22 10:15	05/09/22 09:30

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30487979001	**BC07774 MW-20V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979002	**BC07775 MW-20V Dis**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979003	**BC07776 MW-19**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979004	**BC07777 MW-20SV**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979005	**BC07778 MW-20SV Dup**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979006	**BC07779 MW-20**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979007	**BC07780 MW-17**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979008	**BC07780 MW-17 MS**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30487979009	**BC07780 MW-17 MSD**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30487979010	**BC07781 MW-17SV**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979011	**BC07782 FB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979012	**BC07783 MW-42**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979013	**BC07784 MW-42 Dup**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30487979014	**BC07785 MW-38**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979015	**BC07785 MW-38 MS**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30487979016	**BC07785 MW-38 MSD**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30487979017	**BC07786 MW-41**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979018	**BC07787 MW-40**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979019	**BC07788 MW-39**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979020	**BC07789 FB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979021	**BC07790 MW-23D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979022	**BC07791 MW-23S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979023	**BC07792 MW-26**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979024	**BC08192 MW-36V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979025	**BC08193 MW-33V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979026	**BC08194 MW-37V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30487979027	**BC08195 MW-32V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979028	**BC08196 FB-3**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979029	**BC08197 MW-34V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979030	**BC08198 MW-35V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979031	**BC08199 MW-31VR**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979032	**BC08200 MW-18**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979033	**BC08201 MW-17V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979034	**BC08202 MW-29H**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979035	**BC08203 MW-16V**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979036	**BC08204 MW-16**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979037	**BC08205 MW-28H**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979038	**BC08206 MW-28H Dup**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979039	**BC08207 MW-14**	EPA 9315	JC2	1	PASI-PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979040	**BC08208 FB-4**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979041	**BC08559 MW-8**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979042	**BC08560 MW-9**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979043	**BC08561 MW-10**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979044	**BC08562 MW-11**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979045	**BC08563 MW-7**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979046	**BC08564 MW-6**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979047	**BC08564 MW-6 MS**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30487979048	**BC08564 MW-6 MSD**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30487979049	**BC08565 MW-21**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979050	**BC08566 MW-22**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979051	**BC08567 EB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979052	**BC08568 MW-27**	EPA 9315	JC2	1	PASI-PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979053	**BC08569 MW-27 Dup**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979054	**BC08570 FB-5**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979055	**BC08571 MW-13**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979056	**BC08572 MW-12**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979057	**BC08573 MW-30H**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979058	**BC08574 MW-15R**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979059	**BC08575 MW-4**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979060	**BC08576 MW-3**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979061	**BC08577 MW-5**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30487979062	**BC08578 MW-5 Dup**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Method: **EPA 903.1**
Description: 903.1 Radium 226, Dissolved
Client: Alabama Power
Date: July 05, 2022

General Information:
1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Method: **EPA 904.0**
Description: 904.0 Radium 228, Dissolved
Client: Alabama Power
Date: July 05, 2022

General Information:
1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Method: **EPA 9315**
Description: 9315 Total Radium
Client: Alabama Power
Date: July 05, 2022

General Information:
61 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Method: **EPA 9320**
Description: 9320 Radium 228
Client: Alabama Power
Date: July 05, 2022

General Information:
61 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Alabama Power
Date: July 05, 2022

General Information:
56 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07774 MW-20V **Lab ID: 30487979001** Collected: 04/19/22 12:25 Received: 05/09/22 09:30 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 9315	**3.06 ± 0.785 (0.567) C:79% T:NA**	pCi/L	06/02/22 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.205U ± 0.392 (0.861) C:78% T:90%**	pCi/L	05/24/22 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.27 ± 1.18 (1.43)**	pCi/L	06/17/22 13:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07775 MW-20V Dis **Lab ID: 30487979002** Collected: 04/19/22 12:25 Received: 05/09/22 09:30 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, Dissolved	EPA 903.1	**2.14 ± 0.762 (0.171) C:NA T:89%**	pCi/L	06/15/22 14:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228, Dissolved	EPA 904.0	**0.292U ± 0.673 (1.49) C:66% T:79%**	pCi/L	06/14/22 17:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.43 ± 1.44 (1.66)**	pCi/L	06/16/22 18:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07776 MW-19 **Lab ID: 30487979003** Collected: 04/19/22 15:45 Received: 05/09/22 09:30 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 9315	**0.349 ± 0.220 (0.316) C:96% T:NA**	pCi/L	06/02/22 07:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.311U ± 0.513 (1.12) C:72% T:88%**	pCi/L	05/24/22 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.660U ± 0.733 (1.44)**	pCi/L	06/17/22 13:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07777 MW-20SV **Lab ID: 30487979004** Collected: 04/20/22 10:55 Received: 05/09/22 09:30 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 9315	**1.23 ± 0.441 (0.448) C:98% T:NA**	pCi/L	06/02/22 07:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.04 ± 0.555 (1.03) C:76% T:86%**	pCi/L	05/24/22 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.27 ± 0.996 (1.48)**	pCi/L	06/17/22 13:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07778 MW-20SV Dup **Lab ID: 30487979005** Collected: 04/20/22 10:55 Received: 05/09/22 09:30 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 9315	**1.77 ± 0.532 (0.409) C:99% T:NA**	pCi/L	06/02/22 07:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.922U ± 0.570 (1.08) C:79% T:88%**	pCi/L	05/24/22 15:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.69 ± 1.10 (1.49)**	pCi/L	06/17/22 13:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07779 MW-20 **Lab ID: 30487979006** Collected: 04/20/22 12:03 Received: 05/09/22 09:30 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 9315	**0.226 ± 0.127 (0.162) C:96% T:NA**	pCi/L	06/02/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.26 ± 0.602 (1.04) C:78% T:91%**	pCi/L	05/24/22 15:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.49 ± 0.729 (1.20)**	pCi/L	06/17/22 13:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07780 MW-17 **Lab ID: 30487979007** Collected: 04/20/22 13:38 Received: 05/09/22 09:30 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 9315	**0.275U ± 0.213 (0.346) C:101% T:NA**	pCi/L	06/02/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.848U ± 0.582 (1.12) C:76% T:85%**	pCi/L	05/24/22 15:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12U ± 0.795 (1.47)**	pCi/L	06/17/22 13:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07780 MW-17 MS **Lab ID: 30487979008** Collected: 04/20/22 13:38 Received: 05/09/22 09:30 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • MS for sample 007

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**95.24 %REC ± NA (NA) C:NA T:NA**	pCi/L	06/02/22 07:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**102.59 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/24/22 15:19	15262-20-1	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07780 MW-17 MSD **Lab ID: 30487979009** Collected: 04/20/22 13:38 Received: 05/09/22 09:30 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • MSD for sample 007

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**100.39 %REC 5.27RPD ± NA (NA) C:NA T:NA**	pCi/L	06/02/22 07:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**95.91 %REC 6.73 RPD ± NA (NA) C:NA T:NA**	pCi/L	05/24/22 15:19	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07781 MW-17SV **Lab ID: 30487979010** Collected: 04/20/22 14:40 Received: 05/09/22 09:30 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 9315	**0.681 ± 0.305 (0.357) C:99% T:NA**	pCi/L	06/02/22 07:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.04U ± 0.595 (1.09) C:70% T:94%**	pCi/L	05/24/22 15:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.72 ± 0.900 (1.45)**	pCi/L	06/17/22 13:14	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07782 FB-2 **Lab ID: 30487979011** Collected: 04/20/22 15:15 Received: 05/09/22 09:30 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 9315	**0.129U ± 0.150 (0.296) C:103% T:NA**	pCi/L	06/02/22 07:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.645U ± 0.551 (1.11) C:76% T:83%**	pCi/L	05/24/22 15:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.774U ± 0.701 (1.41)**	pCi/L	06/17/22 13:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07783 MW-42 **Lab ID: 30487979012** Collected: 04/19/22 10:42 Received: 05/09/22 09:30 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 9315	**0.238U ± 0.175 (0.277) C:102% T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.615 ± 0.335 (0.598) C:79% T:94%**	pCi/L	06/02/22 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.853U ± 0.510 (0.875)**	pCi/L	06/09/22 13:48	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07784 MW-42 Dup **Lab ID: 30487979013** Collected: 04/19/22 10:42 Received: 05/09/22 09:30 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 9315	**0.133U ± 0.172 (0.358) C:99% T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.414U ± 0.338 (0.662) C:64% T:89%**	pCi/L	06/02/22 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.547U ± 0.510 (1.02)**	pCi/L	06/09/22 13:48	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07785 MW-38 **Lab ID: 30487979014** Collected: 04/19/22 12:01 Received: 05/09/22 09:30 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 9315	**0.0240U ± 0.191 (0.515) C:97% T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0115U ± 0.251 (0.590) C:83% T:95%**	pCi/L	06/02/22 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0240U ± 0.442 (1.11)**	pCi/L	06/09/22 13:48	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07785 MW-38 MS **Lab ID: 30487979015** Collected: 04/19/22 12:01 Received: 05/09/22 09:30 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 9315	**91.19 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**93.80 %REC ± NA (NA) C:NA T:NA**	pCi/L	06/02/22 11:47	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07785 MW-38 MSD **Lab ID: 30487979016** Collected: 04/19/22 12:01 Received: 05/09/22 09:30 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 9315	**88.88 %REC 2.56RPD ± 2.67 (NA) C:NA T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**107.58 %REC 13.69RPD ± NA (NA) C:NA T:NA**	pCi/L	06/02/22 11:47	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07786 MW-41 **Lab ID: 30487979017** Collected: 04/19/22 13:29 Received: 05/09/22 09:30 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 9315	**0.151U ± 0.210 (0.455) C:94% T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.241U ± 0.315 (0.671) C:73% T:91%**	pCi/L	06/02/22 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.392U ± 0.525 (1.13)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07787 MW-40 **Lab ID: 30487979018** Collected: 04/19/22 14:33 Received: 05/09/22 09:30 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 9315	**0.0912U ± 0.166 (0.377) C:89% T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.364U ± 0.320 (0.644) C:73% T:92%**	pCi/L	06/02/22 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.455U ± 0.486 (1.02)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07788 MW-39 **Lab ID: 30487979019** Collected: 04/19/22 15:30 Received: 05/09/22 09:30 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 9315	**0.283U ± 0.200 (0.313) C:97% T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.741 ± 0.366 (0.611) C:71% T:90%**	pCi/L	06/02/22 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.02 ± 0.566 (0.924)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07789 FB-1 **Lab ID: 30487979020** Collected: 04/19/22 16:05 Received: 05/09/22 09:30 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 9315	**0.139U ± 0.194 (0.412) C:78% T:NA**	pCi/L	05/31/22 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.266U ± 0.285 (0.591) C:75% T:97%**	pCi/L	06/02/22 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.405U ± 0.479 (1.00)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07790 MW-23D **Lab ID: 30487979021** Collected: 04/20/22 10:52 Received: 05/09/22 09:30 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 9315	**0.176U ± 0.234 (0.502) C:90% T:NA**	pCi/L	05/31/22 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.581U ± 0.332 (0.593) C:77% T:91%**	pCi/L	06/02/22 14:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.757U ± 0.566 (1.10)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07791 MW-23S **Lab ID: 30487979022** Collected: 04/20/22 12:01 Received: 05/09/22 09:30 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 9315	**0.206U ± 0.225 (0.451) C:82% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.213U ± 0.315 (0.679) C:78% T:91%**	pCi/L	06/02/22 14:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.419U ± 0.540 (1.13)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC07792 MW-26 **Lab ID: 30487979023** Collected: 04/20/22 13:36 Received: 05/09/22 09:30 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 9315	**-0.0228U ± 0.146 (0.416) C:92% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.111U ± 0.296 (0.717) C:78% T:87%**	pCi/L	06/02/22 14:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.442 (1.13)**	pCi/L	06/09/22 13:48	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08192 MW-36V **Lab ID: 30487979024** Collected: 04/26/22 10:15 Received: 05/09/22 09:30 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 9315	**0.527 ± 0.254 (0.290) C:92% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.795 ± 0.405 (0.705) C:75% T:87%**	pCi/L	06/02/22 14:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.32 ± 0.659 (0.995)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08193 MW-33V **Lab ID: 30487979025** Collected: 04/26/22 11:43 Received: 05/09/22 09:30 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 9315	**0.467 ± 0.273 (0.398) C:88% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.744 ± 0.391 (0.680) C:73% T:86%**	pCi/L	06/02/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.21 ± 0.664 (1.08)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08194 MW-37V **Lab ID: 30487979026** Collected: 04/26/22 13:25 Received: 05/09/22 09:30 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 9315	**2.92 ± 0.705 (0.379) C:84% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.49 ± 0.497 (0.669) C:79% T:89%**	pCi/L	06/02/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.41 ± 1.20 (1.05)**	pCi/L	06/09/22 13:48	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08195 MW-32V **Lab ID: 30487979027** Collected: 04/26/22 14:41 Received: 05/09/22 09:30 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 9315	**0.813 ± 0.372 (0.505) C:88% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.02 ± 0.425 (0.669) C:77% T:87%**	pCi/L	06/02/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.83 ± 0.797 (1.17)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08196 FB-3 **Lab ID: 30487979028** Collected: 04/26/22 15:30 Received: 05/09/22 09:30 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 9315	**0.104U ± 0.160 (0.348) C:81% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0652U ± 0.278 (0.639) C:71% T:89%**	pCi/L	06/02/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.169U ± 0.438 (0.987)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08197 MW-34V **Lab ID: 30487979029** Collected: 04/27/22 08:55 Received: 05/09/22 09:30 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 9315	**0.342U ± 0.238 (0.395) C:108% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.873 ± 0.450 (0.780) C:71% T:80%**	pCi/L	06/02/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.22 ± 0.688 (1.18)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08198 MW-35V **Lab ID: 30487979030** Collected: 04/27/22 10:24 Received: 05/09/22 09:30 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 9315	**0.0279U ± 0.155 (0.406) C:93% T:NA**	pCi/L	05/31/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.976 ± 0.414 (0.647) C:72% T:90%**	pCi/L	06/02/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.00U ± 0.569 (1.05)**	pCi/L	06/09/22 13:48	7440-14-4	

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08199 MW-31VR **Lab ID: 30487979031** Collected: 04/27/22 13:49 Received: 05/09/22 09:30 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 9315	**0.276U ± 0.188 (0.279) C:102% T:NA**	pCi/L	05/31/22 10:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.459U ± 0.356 (0.702) C:73% T:90%**	pCi/L	06/02/22 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.735U ± 0.544 (0.981)**	pCi/L	06/09/22 13:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08200 MW-18 **Lab ID: 30487979032** Collected: 04/26/22 11:30 Received: 05/09/22 09:30 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 9315	**0.843 ± 0.314 (0.365) C:98% T:NA**	pCi/L	06/17/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.495U ± 0.317 (0.596) C:81% T:95%**	pCi/L	06/07/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.34 ± 0.631 (0.961)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08201 MW-17V **Lab ID: 30487979033** Collected: 04/26/22 13:22 Received: 05/09/22 09:30 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 9315	**9.06 ± 1.56 (0.277) C:99% T:NA**	pCi/L	06/17/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.55 ± 0.670 (0.621) C:73% T:95%**	pCi/L	06/07/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**11.6 ± 2.23 (0.898)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08202 MW-29H **Lab ID: 30487979034** Collected: 04/26/22 15:30 Received: 05/09/22 09:30 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 9315	**14.4 ± 2.40 (0.352) C:95% T:NA**	pCi/L	06/17/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**3.49 ± 0.821 (0.667) C:80% T:92%**	pCi/L	06/07/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**17.9 ± 3.22 (1.02)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08203 MW-16V **Lab ID: 30487979035** Collected: 04/27/22 10:25 Received: 05/09/22 09:30 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 9315	**1.30 ± 0.387 (0.281) C:98% T:NA**	pCi/L	06/17/22 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.26 ± 0.432 (0.584) C:78% T:96%**	pCi/L	06/07/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.56 ± 0.819 (0.865)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08204 MW-16 **Lab ID: 30487979036** Collected: 04/27/22 12:05 Received: 05/09/22 09:30 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 9315	**3.38 ± 0.704 (0.215) C:100% T:NA**	pCi/L	06/17/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.947 ± 0.392 (0.624) C:78% T:96%**	pCi/L	06/07/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.33 ± 1.10 (0.839)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08205 MW-28H **Lab ID: 30487979037** Collected: 04/27/22 13:25 Received: 05/09/22 09:30 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 9315	**4.63 ± 0.934 (0.332) C:92% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.22 ± 0.406 (0.536) C:83% T:97%**	pCi/L	06/07/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**5.85 ± 1.34 (0.868)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08206 MW-28H Dup **Lab ID: 30487979038** Collected: 04/27/22 13:25 Received: 05/09/22 09:30 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 9315	**5.56 ± 1.06 (0.314) C:100% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.955 ± 0.340 (0.461) C:81% T:104%**	pCi/L	06/07/22 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**6.52 ± 1.40 (0.775)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08207 MW-14 **Lab ID: 30487979039** Collected: 04/27/22 15:15 Received: 05/09/22 09:30 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 9315	**0.301 ± 0.182 (0.264) C:92% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.452U ± 0.295 (0.554) C:82% T:97%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.753U ± 0.477 (0.818)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08208 FB-4 **Lab ID: 30487979040** Collected: 04/27/22 16:00 Received: 05/09/22 09:30 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 9315	**0.0679U ± 0.117 (0.261) C:95% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.156U ± 0.276 (0.604) C:78% T:99%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.224U ± 0.393 (0.865)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08559 MW-8 **Lab ID: 30487979041** Collected: 05/02/22 10:20 Received: 05/09/22 09:30 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 9315	**0.000U ± 0.118 (0.321) C:97% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.465U ± 0.288 (0.534) C:83% T:97%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.465U ± 0.406 (0.855)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08560 MW-9 **Lab ID: 30487979042** Collected: 05/02/22 12:10 Received: 05/09/22 09:30 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 9315	**0.628 ± 0.249 (0.234) C:98% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.263U ± 0.282 (0.587) C:76% T:100%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.891 ± 0.531 (0.821)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08561 MW-10 **Lab ID: 30487979043** Collected: 05/02/22 14:15 Received: 05/09/22 09:30 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 9315	**0.125U ± 0.131 (0.251) C:98% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.224U ± 0.238 (0.492) C:77% T:105%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.349U ± 0.369 (0.743)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08562 MW-11 **Lab ID: 30487979044** Collected: 05/02/22 16:05 Received: 05/09/22 09:30 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 9315	**0.0353U ± 0.0858 (0.207) C:97% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.320U ± 0.250 (0.484) C:79% T:96%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.355U ± 0.336 (0.691)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08563 MW-7 **Lab ID: 30487979045** Collected: 05/03/22 09:55 Received: 05/09/22 09:30 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 9315	**0.125U ± 0.134 (0.263) C:98% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.471U ± 0.294 (0.534) C:73% T:96%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.596U ± 0.428 (0.797)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08564 MW-6 **Lab ID: 30487979046** Collected: 05/03/22 11:00 Received: 05/09/22 09:30 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 9315	**0.223 ± 0.153 (0.217) C:96% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.255U ± 0.275 (0.570) C:76% T:96%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.478U ± 0.428 (0.787)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08564 MW-6 MS **Lab ID: 30487979047** Collected: 05/03/22 11:00 Received: 05/09/22 09:30 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 9315	**102.92 %REC ± NA (NA) C:NA T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**80.00 %REC ± NA (NA) C:NA T:NA**	pCi/L	06/07/22 12:08	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08564 MW-6 MSD **Lab ID: 30487979048** Collected: 05/03/22 11:00 Received: 05/09/22 09:30 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 9315	**100.45 %REC 2.43RPD ± NA (NA) C:NA T:NA**	pCi/L	06/17/22 09:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**75.42 %REC 5.90 RPD ± NA (NA) C:NA T:NA**	pCi/L	06/07/22 12:08	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08565 MW-21 **Lab ID: 30487979049** Collected: 05/03/22 12:10 Received: 05/09/22 09:30 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 9315	**0.0204U ± 0.113 (0.297) C:89% T:NA**	pCi/L	06/17/22 09:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.415U ± 0.317 (0.623) C:75% T:100%**	pCi/L	06/07/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.435U ± 0.430 (0.920)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08566 MW-22 **Lab ID: 30487979050** Collected: 05/03/22 13:20 Received: 05/09/22 09:30 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 9315	**0.201U ± 0.175 (0.327) C:96% T:NA**	pCi/L	06/17/22 09:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.416U ± 0.271 (0.498) C:78% T:96%**	pCi/L	06/07/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.617U ± 0.446 (0.825)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08567 EB-1 **Lab ID: 30487979051** Collected: 05/03/22 13:45 Received: 05/09/22 09:30 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 9315	**-0.00596U ± 0.0882 (0.258) C:104% T:NA**	pCi/L	06/17/22 09:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0229U ± 0.224 (0.535) C:77% T:101%**	pCi/L	06/07/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.312 (0.793)**	pCi/L	06/17/22 16:13	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08568 MW-27 **Lab ID: 30487979052** Collected: 05/02/22 10:24 Received: 05/09/22 09:30 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 9315	**0.0156U ± 0.132 (0.362) C:91% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.289U ± 0.373 (0.794) C:65% T:97%**	pCi/L	06/06/22 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.305U ± 0.505 (1.16)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08569 MW-27 Dup **Lab ID: 30487979053** Collected: 05/02/22 10:24 Received: 05/09/22 09:30 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 9315	**0.0933U ± 0.170 (0.386) C:96% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.241U ± 0.416 (0.887) C:49% T:98%**	pCi/L	06/06/22 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.334U ± 0.586 (1.27)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08570 FB-5 **Lab ID: 30487979054** Collected: 05/02/22 10:40 Received: 05/09/22 09:30 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 9315	**-0.0391U ± 0.112 (0.367) C:98% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.136U ± 0.381 (0.887) C:64% T:88%**	pCi/L	06/06/22 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.493 (1.25)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08571 MW-13 **Lab ID: 30487979055** Collected: 05/02/22 15:12 Received: 05/09/22 09:30 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 9315	**0.234U ± 0.209 (0.370) C:98% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.178U ± 0.351 (0.775) C:62% T:98%**	pCi/L	06/06/22 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.412U ± 0.560 (1.15)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08572 MW-12 **Lab ID: 30487979056** Collected: 05/03/22 10:10 Received: 05/09/22 09:30 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 9315	**0.663 ± 0.293 (0.335) C:96% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.422U ± 0.429 (0.879) C:52% T:96%**	pCi/L	06/06/22 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09U ± 0.722 (1.21)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08573 MW-30H **Lab ID: 30487979057** Collected: 05/02/22 10:18 Received: 05/09/22 09:30 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 9315	**0.620 ± 0.296 (0.413) C:97% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.138U ± 0.423 (0.929) C:46% T:101%**	pCi/L	06/06/22 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.758U ± 0.719 (1.34)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08574 MW-15R **Lab ID: 30487979058** Collected: 05/02/22 11:48 Received: 05/09/22 09:30 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 9315	**0.253U ± 0.208 (0.362) C:82% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.889U ± 0.524 (0.951) C:52% T:88%**	pCi/L	06/06/22 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.14U ± 0.732 (1.31)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08575 MW-4 **Lab ID: 30487979059** Collected: 05/02/22 14:13 Received: 05/09/22 09:30 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 9315	**0.164U ± 0.161 (0.298) C:98% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.494U ± 0.472 (0.951) C:54% T:93%**	pCi/L	06/06/22 14:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.658U ± 0.633 (1.25)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08576 MW-3 **Lab ID: 30487979060** Collected: 05/03/22 08:45 Received: 05/09/22 09:30 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 9315	**0.0690U ± 0.141 (0.328) C:99% T:NA**	pCi/L	06/02/22 07:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.753U ± 0.513 (0.960) C:42% T:98%**	pCi/L	06/06/22 14:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.822U ± 0.654 (1.29)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08577 MW-5 **Lab ID: 30487979061** Collected: 05/03/22 10:15 Received: 05/09/22 09:30 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 9315	**0.482 ± 0.274 (0.435) C:102% T:NA**	pCi/L	06/02/22 07:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.476U ± 0.477 (0.980) C:49% T:101%**	pCi/L	06/06/22 14:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.958U ± 0.751 (1.42)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

Sample: BC08578 MW-5 Dup **Lab ID: 30487979062** Collected: 05/03/22 10:15 Received: 05/09/22 09:30 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 9315	**0.431 ± 0.248 (0.373) C:91% T:NA**	pCi/L	06/02/22 07:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.238U ± 0.441 (0.943) C:56% T:90%**	pCi/L	06/06/22 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.669U ± 0.689 (1.32)**	pCi/L	06/09/22 13:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 504555
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979001, 30487979003, 30487979004, 30487979005, 30487979006, 30487979007, 30487979008, 30487979009, 30487979010, 30487979011

METHOD BLANK: 2443959 Matrix: Water
Associated Lab Samples: 30487979001, 30487979003, 30487979004, 30487979005, 30487979006, 30487979007, 30487979008, 30487979009, 30487979010, 30487979011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.000472 ± 0.0789 (0.222) C:81% T:NA	pCi/L	06/02/22 07:28	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 506496
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226, Dissolved
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979002

METHOD BLANK: 2453807 Matrix: Water
Associated Lab Samples: 30487979002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226, Dissolved	-0.0441 ± 0.201 (0.410) C:NA T:97%	pCi/L	06/15/22 14:22	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 504552
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979052, 30487979053, 30487979054, 30487979055, 30487979056, 30487979057, 30487979058, 30487979059, 30487979060, 30487979061, 30487979062

METHOD BLANK: 2443955 Matrix: Water
Associated Lab Samples: 30487979052, 30487979053, 30487979054, 30487979055, 30487979056, 30487979057, 30487979058, 30487979059, 30487979060, 30487979061, 30487979062

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.314 ± 0.430 (0.900) C:52% T:90%	pCi/L	06/06/22 14:17	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 504549
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979012, 30487979013, 30487979014, 30487979015, 30487979016, 30487979017, 30487979018, 30487979019, 30487979020, 30487979021, 30487979022, 30487979023, 30487979024, 30487979025, 30487979026, 30487979027, 30487979028, 30487979029, 30487979030, 30487979031

METHOD BLANK: 2443952
Matrix: Water
Associated Lab Samples: 30487979012, 30487979013, 30487979014, 30487979015, 30487979016, 30487979017, 30487979018, 30487979019, 30487979020, 30487979021, 30487979022, 30487979023, 30487979024, 30487979025, 30487979026, 30487979027, 30487979028, 30487979029, 30487979030, 30487979031

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0160 ± 0.0735 (0.195) C:85% T:NA	pCi/L	05/31/22 08:16	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 504551
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979032, 30487979033, 30487979034, 30487979035, 30487979036, 30487979037, 30487979038, 30487979039, 30487979040, 30487979041, 30487979042, 30487979043, 30487979044, 30487979045, 30487979046, 30487979047, 30487979048, 30487979049, 30487979050, 30487979051

METHOD BLANK: 2443954
Matrix: Water
Associated Lab Samples: 30487979032, 30487979033, 30487979034, 30487979035, 30487979036, 30487979037, 30487979038, 30487979039, 30487979040, 30487979041, 30487979042, 30487979043, 30487979044, 30487979045, 30487979046, 30487979047, 30487979048, 30487979049, 30487979050, 30487979051

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.0691 (0.188) C:98% T:NA	pCi/L	06/17/22 08:44	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 504554
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979052, 30487979053, 30487979054, 30487979055, 30487979056, 30487979057, 30487979058, 30487979059, 30487979060, 30487979061, 30487979062

METHOD BLANK: 2443958
Matrix: Water
Associated Lab Samples: 30487979052, 30487979053, 30487979054, 30487979055, 30487979056, 30487979057, 30487979058, 30487979059, 30487979060, 30487979061, 30487979062

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0825 ± 0.0893 (0.170) C:95% T:NA	pCi/L	06/02/22 07:47	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 503480
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979001, 30487979003, 30487979004, 30487979005, 30487979006, 30487979007, 30487979008, 30487979009, 30487979010, 30487979011

METHOD BLANK: 2437885 Matrix: Water
Associated Lab Samples: 30487979001, 30487979003, 30487979004, 30487979005, 30487979006, 30487979007, 30487979008, 30487979009, 30487979010, 30487979011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.239 ± 0.295 (0.623) C:79% T:89%	pCi/L	05/24/22 15:21	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 504548
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979012, 30487979013, 30487979014, 30487979015, 30487979016, 30487979017, 30487979018, 30487979019, 30487979020, 30487979021, 30487979022, 30487979023, 30487979024, 30487979025, 30487979026, 30487979027, 30487979028, 30487979029, 30487979030, 30487979031

METHOD BLANK: 2443951
Matrix: Water
Associated Lab Samples: 30487979012, 30487979013, 30487979014, 30487979015, 30487979016, 30487979017, 30487979018, 30487979019, 30487979020, 30487979021, 30487979022, 30487979023, 30487979024, 30487979025, 30487979026, 30487979027, 30487979028, 30487979029, 30487979030, 30487979031

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.884 ± 0.377 (0.588) C:73% T:92%	pCi/L	06/02/22 11:47	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 504550
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979032, 30487979033, 30487979034, 30487979035, 30487979036, 30487979037, 30487979038, 30487979039, 30487979040, 30487979041, 30487979042, 30487979043, 30487979044, 30487979045, 30487979046, 30487979047, 30487979048, 30487979049, 30487979050, 30487979051

METHOD BLANK: 2443953
Matrix: Water
Associated Lab Samples: 30487979032, 30487979033, 30487979034, 30487979035, 30487979036, 30487979037, 30487979038, 30487979039, 30487979040, 30487979041, 30487979042, 30487979043, 30487979044, 30487979045, 30487979046, 30487979047, 30487979048, 30487979049, 30487979050, 30487979051

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.387 ± 0.262 (0.493) C:81% T:98%	pCi/L	06/07/22 12:07	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1360
Pace Project No.: 30487979

QC Batch: 506497
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228, Dissolved
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30487979002

METHOD BLANK: 2453809 Matrix: Water
Associated Lab Samples: 30487979002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228, Dissolved	0.110 ± 0.336 (0.764) C:67% T:82%	pCi/L	06/14/22 17:46	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: WMWGASAP_1360
Pace Project No.: 30487979

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.

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: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30487979002	BC07775 MW-20V Dis	EPA 903.1	506496		
30487979002	BC07775 MW-20V Dis	EPA 904.0	506497		
30487979001	BC07774 MW-20V	EPA 9315	504555		
30487979003	BC07776 MW-19	EPA 9315	504555		
30487979004	BC07777 MW-20SV	EPA 9315	504555		
30487979005	BC07778 MW-20SV Dup	EPA 9315	504555		
30487979006	BC07779 MW-20	EPA 9315	504555		
30487979007	BC07780 MW-17	EPA 9315	504555		
30487979008	BC07780 MW-17 MS	EPA 9315	504555		
30487979009	BC07780 MW-17 MSD	EPA 9315	504555		
30487979010	BC07781 MW-17SV	EPA 9315	504555		
30487979011	BC07782 FB-2	EPA 9315	504555		
30487979012	BC07783 MW-42	EPA 9315	504549		
30487979013	BC07784 MW-42 Dup	EPA 9315	504549		
30487979014	BC07785 MW-38	EPA 9315	504549		
30487979015	BC07785 MW-38 MS	EPA 9315	504549		
30487979016	BC07785 MW-38 MSD	EPA 9315	504549		
30487979017	BC07786 MW-41	EPA 9315	504549		
30487979018	BC07787 MW-40	EPA 9315	504549		
30487979019	BC07788 MW-39	EPA 9315	504549		
30487979020	BC07789 FB-1	EPA 9315	504549		
30487979021	BC07790 MW-23D	EPA 9315	504549		
30487979022	BC07791 MW-23S	EPA 9315	504549		
30487979023	BC07792 MW-26	EPA 9315	504549		
30487979024	BC08192 MW-36V	EPA 9315	504549		
30487979025	BC08193 MW-33V	EPA 9315	504549		
30487979026	BC08194 MW-37V	EPA 9315	504549		
30487979027	BC08195 MW-32V	EPA 9315	504549		
30487979028	BC08196 FB-3	EPA 9315	504549		
30487979029	BC08197 MW-34V	EPA 9315	504549		
30487979030	BC08198 MW-35V	EPA 9315	504549		
30487979031	BC08199 MW-31VR	EPA 9315	504549		
30487979032	BC08200 MW-18	EPA 9315	504551		
30487979033	BC08201 MW-17V	EPA 9315	504551		
30487979034	BC08202 MW-29H	EPA 9315	504551		
30487979035	BC08203 MW-16V	EPA 9315	504551		
30487979036	BC08204 MW-16	EPA 9315	504551		
30487979037	BC08205 MW-28H	EPA 9315	504551		
30487979038	BC08206 MW-28H Dup	EPA 9315	504551		
30487979039	BC08207 MW-14	EPA 9315	504551		
30487979040	BC08208 FB-4	EPA 9315	504551		
30487979041	BC08559 MW-8	EPA 9315	504551		
30487979042	BC08560 MW-9	EPA 9315	504551		
30487979043	BC08561 MW-10	EPA 9315	504551		
30487979044	BC08562 MW-11	EPA 9315	504551		
30487979045	BC08563 MW-7	EPA 9315	504551		
30487979046	BC08564 MW-6	EPA 9315	504551		

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30487979047	BC08564 MW-6 MS	EPA 9315	504551		
30487979048	BC08564 MW-6 MSD	EPA 9315	504551		
30487979049	BC08565 MW-21	EPA 9315	504551		
30487979050	BC08566 MW-22	EPA 9315	504551		
30487979051	BC08567 EB-1	EPA 9315	504551		
30487979052	BC08568 MW-27	EPA 9315	504554		
30487979053	BC08569 MW-27 Dup	EPA 9315	504554		
30487979054	BC08570 FB-5	EPA 9315	504554		
30487979055	BC08571 MW-13	EPA 9315	504554		
30487979056	BC08572 MW-12	EPA 9315	504554		
30487979057	BC08573 MW-30H	EPA 9315	504554		
30487979058	BC08574 MW-15R	EPA 9315	504554		
30487979059	BC08575 MW-4	EPA 9315	504554		
30487979060	BC08576 MW-3	EPA 9315	504554		
30487979061	BC08577 MW-5	EPA 9315	504554		
30487979062	BC08578 MW-5 Dup	EPA 9315	504554		
30487979001	BC07774 MW-20V	EPA 9320	503480		
30487979003	BC07776 MW-19	EPA 9320	503480		
30487979004	BC07777 MW-20SV	EPA 9320	503480		
30487979005	BC07778 MW-20SV Dup	EPA 9320	503480		
30487979006	BC07779 MW-20	EPA 9320	503480		
30487979007	BC07780 MW-17	EPA 9320	503480		
30487979008	BC07780 MW-17 MS	EPA 9320	503480		
30487979009	BC07780 MW-17 MSD	EPA 9320	503480		
30487979010	BC07781 MW-17SV	EPA 9320	503480		
30487979011	BC07782 FB-2	EPA 9320	503480		
30487979012	BC07783 MW-42	EPA 9320	504548		
30487979013	BC07784 MW-42 Dup	EPA 9320	504548		
30487979014	BC07785 MW-38	EPA 9320	504548		
30487979015	BC07785 MW-38 MS	EPA 9320	504548		
30487979016	BC07785 MW-38 MSD	EPA 9320	504548		
30487979017	BC07786 MW-41	EPA 9320	504548		
30487979018	BC07787 MW-40	EPA 9320	504548		
30487979019	BC07788 MW-39	EPA 9320	504548		
30487979020	BC07789 FB-1	EPA 9320	504548		
30487979021	BC07790 MW-23D	EPA 9320	504548		
30487979022	BC07791 MW-23S	EPA 9320	504548		
30487979023	BC07792 MW-26	EPA 9320	504548		
30487979024	BC08192 MW-36V	EPA 9320	504548		
30487979025	BC08193 MW-33V	EPA 9320	504548		
30487979026	BC08194 MW-37V	EPA 9320	504548		
30487979027	BC08195 MW-32V	EPA 9320	504548		
30487979028	BC08196 FB-3	EPA 9320	504548		
30487979029	BC08197 MW-34V	EPA 9320	504548		
30487979030	BC08198 MW-35V	EPA 9320	504548		
30487979031	BC08199 MW-31VR	EPA 9320	504548		
30487979032	BC08200 MW-18	EPA 9320	504550		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30487979033	**BC08201 MW-17V**	EPA 9320	504550		
30487979034	**BC08202 MW-29H**	EPA 9320	504550		
30487979035	**BC08203 MW-16V**	EPA 9320	504550		
30487979036	**BC08204 MW-16**	EPA 9320	504550		
30487979037	**BC08205 MW-28H**	EPA 9320	504550		
30487979038	**BC08206 MW-28H Dup**	EPA 9320	504550		
30487979039	**BC08207 MW-14**	EPA 9320	504550		
30487979040	**BC08208 FB-4**	EPA 9320	504550		
30487979041	**BC08559 MW-8**	EPA 9320	504550		
30487979042	**BC08560 MW-9**	EPA 9320	504550		
30487979043	**BC08561 MW-10**	EPA 9320	504550		
30487979044	**BC08562 MW-11**	EPA 9320	504550		
30487979045	**BC08563 MW-7**	EPA 9320	504550		
30487979046	**BC08564 MW-6**	EPA 9320	504550		
30487979047	**BC08564 MW-6 MS**	EPA 9320	504550		
30487979048	**BC08564 MW-6 MSD**	EPA 9320	504550		
30487979049	**BC08565 MW-21**	EPA 9320	504550		
30487979050	**BC08566 MW-22**	EPA 9320	504550		
30487979051	**BC08567 EB-1**	EPA 9320	504550		
30487979052	**BC08568 MW-27**	EPA 9320	504552		
30487979053	**BC08569 MW-27 Dup**	EPA 9320	504552		
30487979054	**BC08570 FB-5**	EPA 9320	504552		
30487979055	**BC08571 MW-13**	EPA 9320	504552		
30487979056	**BC08572 MW-12**	EPA 9320	504552		
30487979057	**BC08573 MW-30H**	EPA 9320	504552		
30487979058	**BC08574 MW-15R**	EPA 9320	504552		
30487979059	**BC08575 MW-4**	EPA 9320	504552		
30487979060	**BC08576 MW-3**	EPA 9320	504552		
30487979061	**BC08577 MW-5**	EPA 9320	504552		
30487979062	**BC08578 MW-5 Dup**	EPA 9320	504552		
30487979001	**BC07774 MW-20V**	Total Radium Calculation	512688		
30487979002	**BC07775 MW-20V Dis**	Total Radium Calculation	512509		
30487979003	**BC07776 MW-19**	Total Radium Calculation	512688		
30487979004	**BC07777 MW-20SV**	Total Radium Calculation	512688		
30487979005	**BC07778 MW-20SV Dup**	Total Radium Calculation	512688		
30487979006	**BC07779 MW-20**	Total Radium Calculation	512692		
30487979007	**BC07780 MW-17**	Total Radium Calculation	512692		
30487979010	**BC07781 MW-17SV**	Total Radium Calculation	512692		
30487979011	**BC07782 FB-2**	Total Radium Calculation	512692		
30487979012	**BC07783 MW-42**	Total Radium Calculation	510118		
30487979013	**BC07784 MW-42 Dup**	Total Radium Calculation	510118		
30487979014	**BC07785 MW-38**	Total Radium Calculation	510118		
30487979017	**BC07786 MW-41**	Total Radium Calculation	510118		
30487979018	**BC07787 MW-40**	Total Radium Calculation	510118		
30487979019	**BC07788 MW-39**	Total Radium Calculation	510118		
30487979020	**BC07789 FB-1**	Total Radium Calculation	510118		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASAP_1360
Pace Project No.: 30487979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30487979021	**BC07790 MW-23D**	Total Radium Calculation	510118		
30487979022	**BC07791 MW-23S**	Total Radium Calculation	510118		
30487979023	**BC07792 MW-26**	Total Radium Calculation	510118		
30487979024	**BC08192 MW-36V**	Total Radium Calculation	510118		
30487979025	**BC08193 MW-33V**	Total Radium Calculation	510118		
30487979026	**BC08194 MW-37V**	Total Radium Calculation	510118		
30487979027	**BC08195 MW-32V**	Total Radium Calculation	510118		
30487979028	**BC08196 FB-3**	Total Radium Calculation	510118		
30487979029	**BC08197 MW-34V**	Total Radium Calculation	510118		
30487979030	**BC08198 MW-35V**	Total Radium Calculation	510118		
30487979031	**BC08199 MW-31VR**	Total Radium Calculation	510118		
30487979032	**BC08200 MW-18**	Total Radium Calculation	512767		
30487979033	**BC08201 MW-17V**	Total Radium Calculation	512767		
30487979034	**BC08202 MW-29H**	Total Radium Calculation	512767		
30487979035	**BC08203 MW-16V**	Total Radium Calculation	512767		
30487979036	**BC08204 MW-16**	Total Radium Calculation	512767		
30487979037	**BC08205 MW-28H**	Total Radium Calculation	512767		
30487979038	**BC08206 MW-28H Dup**	Total Radium Calculation	512767		
30487979039	**BC08207 MW-14**	Total Radium Calculation	512767		
30487979040	**BC08208 FB-4**	Total Radium Calculation	512767		
30487979041	**BC08559 MW-8**	Total Radium Calculation	512767		
30487979042	**BC08560 MW-9**	Total Radium Calculation	512767		
30487979043	**BC08561 MW-10**	Total Radium Calculation	512767		
30487979044	**BC08562 MW-11**	Total Radium Calculation	512767		
30487979045	**BC08563 MW-7**	Total Radium Calculation	512767		
30487979046	**BC08564 MW-6**	Total Radium Calculation	512767		
30487979049	**BC08565 MW-21**	Total Radium Calculation	512767		
30487979050	**BC08566 MW-22**	Total Radium Calculation	512767		
30487979051	**BC08567 EB-1**	Total Radium Calculation	512767		
30487979052	**BC08568 MW-27**	Total Radium Calculation	510139		
30487979053	**BC08569 MW-27 Dup**	Total Radium Calculation	510139		
30487979054	**BC08570 FB-5**	Total Radium Calculation	510139		
30487979055	**BC08571 MW-13**	Total Radium Calculation	510139		
30487979056	**BC08572 MW-12**	Total Radium Calculation	510139		
30487979057	**BC08573 MW-30H**	Total Radium Calculation	510139		
30487979058	**BC08574 MW-15R**	Total Radium Calculation	510139		
30487979059	**BC08575 MW-4**	Total Radium Calculation	510139		
30487979060	**BC08576 MW-3**	Total Radium Calculation	510139		
30487979061	**BC08577 MW-5**	Total Radium Calculation	510139		
30487979062	**BC08578 MW-5 Dup**	Total Radium Calculation	510139		

WO# : 30487979

30487979

CHAIN-C ...nent

The Chain-of- ...mpleted accurately.

Page : 1 Of 7

Section A
Required Client Information:

Company:	Alabama Power Company
Address:	744 Highway 87 GSC Bldg #8
	Calera, AL 35040
Email To:	tbwill@southernco.com
Phone:	205-664-6101 Fax:
Requested Due Date:	28 days

Section B
Required Project Information:

Report To:	Brooke Caton
Copy To:	Renee Jernigan & Blaine Denton
Purchase Order #:	APC10755638
Project Name:	Plant Gaston Ash Pond
Project Number:	WMWGASAP_1360

Attention:	Brooke Caton
Company Name:	Alabama Power Co.
Address:	744 Highway 87 GSC Bldg #8
Pace Quote:	CCR
Pace Project Manager:	Skyler Richmond
Pace Profile #:	16788

Regulatory Agency

State / Location
AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3			Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum			Residual Chlorine (Y/N)	
1	BC07774	MW-20V	APCO-GN-AP-MW-20V	APCO_Gaston_AshPond				GW	G	4/19/2022	12:25	1			X				X	X	X				001
2	BC07775	MW-20V Dis	APCO-GN-AP-MW-20V	APCO_Gaston_AshPond			X	GW	G	4/19/2022	12:25	1			X				X	X	X				002
3	BC07776	MW-19	APCO-GN-AP-MW-19	APCO_Gaston_AshPond				GW	G	4/19/2022	15:45	1			X				X	X	X				003
4	BC07777	MW-20SV	APCO-GN-AP-MW-20SV	APCO_Gaston_AshPond				GW	G	4/20/2022	10:55	1			X				X	X	X				004
5	BC07778	MW-20SV Dup	APCO-GN-AP-MW-20SV	APCO_Gaston_AshPond	X			GW	G	4/20/2022	10:55	1			X				X	X	X				005
6	BC07779	MW-20	APCO-GN-AP-MW-20	APCO_Gaston_AshPond				GW	G	4/20/2022	12:03	1			X				X	X	X				006
7	BC07780	MW-17	APCO-GN-AP-MW-17	APCO_Gaston_AshPond		X		GW	G	4/20/2022	13:38	3			X				X	X	X				007,008,009
8	BC07781	MW-17SV	APCO-GN-AP-MW-17SV	APCO_Gaston_AshPond				GW	G	4/20/2022	14:40	1			X				X	X	X				010
9	BC07782	FB-2	APCO-GN-AP-FB-02	APCO_Gaston_AshPond				GW	G	4/20/2022	15:15	1			X				X	X	X				011
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	5/4/2022	10:49		5-4-22	0930	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TJ Daugherty

SIGNATURE of SAMPLER: **DATE Signed:**

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

30487979

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
	Calera, AL 35040			Address:	744 Highway 87 GSC Bldg #8
Email To:	tbwill@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6101 Fax:	Project Name:	Plant Gaston Ash Pond	Pace Project Manager:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGASAP_1360	Pace Profile #:	16788

Regulatory Agency

State / Location: AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3			Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum			Residual Chlorine (Y/N)	
1	BC07783	MW-42	APCO-GN-AP-MW-42	APCO_Gaston_AshPond				GW	G	4/19/2022	10:42	1			X				X	X	X				012
2	BC07784	MW-42 Dup	APCO-GN-AP-MW-42	APCO_Gaston_AshPond	X			GW	G	4/19/2022	10:42	1			X				X	X	X				013
3	BC07785	MW-38	APCO-GN-AP-MW-38	APCO_Gaston_AshPond		X		GW	G	4/19/2022	12:01	3			X				X	X	X				014,015,016
4	BC07786	MW-41	APCO-GN-AP-MW-41	APCO_Gaston_AshPond				GW	G	4/19/2022	13:29	1			X				X	X	X				017
5	BC07787	MW-40	APCO-GN-AP-MW-40	APCO_Gaston_AshPond				GW	G	4/19/2022	14:33	1			X				X	X	X				018
6	BC07788	MW-39	APCO-GN-AP-MW-39	APCO_Gaston_AshPond				GW	G	4/19/2022	15:30	1			X				X	X	X				019
7	BC07789	FB-1	APCO-GN-AP-FB-01	APCO_Gaston_AshPond				GW	G	4/19/2022	16:05	1			X				X	X	X				020
8	BC07790	MW-23D	APCO-GN-AP-MW-23D	APCO_Gaston_AshPond				GW	G	4/20/2022	10:52	1			X				X	X	X				021
9	BC07791	MW-23S	APCO-GN-AP-MW-23S	APCO_Gaston_AshPond				GW	G	4/20/2022	12:01	1			X				X	X	X				022
10	BC07792	MW-26	APCO-GN-AP-MW-26	APCO_Gaston_AshPond				GW	G	4/20/2022	13:36	1			X				X	X	X				023
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	5/4/2022	10:49	[signature]	5-4-22	0930	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dallas Gentry

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

30487979

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
	Calera, AL 35040			Address:	744 Highway 87 GSC Bldg #8
Email To:	tbwill@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6101 Fax:	Project Name:	Plant Gaston Ash Pond	Pace Project Manager:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGASAP 1360	Pace Profile #:	16788

Regulatory Agency
State / Location
AL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	Preservatives: H2SO4	Preservatives: HNO3	Preservatives:	Preservatives:	Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum			Residual Chlorine (Y/N)	
1	BC08192	MW-36V	APCO-GN-AP-MW-36V	APCO_Gaston_AshPond				GW	G	4/26/2022	10:15	1			X				X	X	X				024
2	BC08193	MW-33V	APCO-GN-AP-MW-33V	APCO_Gaston_AshPond				GW	G	4/26/2022	11:43	1			X				X	X	X				025
3	BC08194	MW-37V	APCO-GN-AP-MW-37V	APCO_Gaston_AshPond				GW	G	4/26/2022	13:25	1			X				X	X	X				026
4	BC08195	MW-32V	APCO-GN-AP-MW-32V	APCO_Gaston_AshPond				GW	G	4/26/2022	14:41	1			X				X	X	X				027
5	BC08196	FB-3	APCO-GN-AP-FB-03	APCO_Gaston_AshPond				GW	G	4/26/2022	15:30	1			X				X	X	X				028
6	BC08197	MW-34V	APCO-GN-AP-MW-34V	APCO_Gaston_AshPond				GW	G	4/27/2022	8:55	1			X				X	X	X				029
7	BC08198	MW-35V	APCO-GN-AP-MW-35V	APCO_Gaston_AshPond				GW	G	4/27/2022	10:24	1			X				X	X	X				030
8	BC08199	MW-31VR	APCO-GN-AP-MW-31VR	APCO_Gaston_AshPond				GW	G	4/27/2022	13:49	1			X				X	X	X				031
9																									
10																									
11																									
12																									

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	5/4/2022	10:49		5-9-22	0930	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dallas Gentry

SIGNATURE of SAMPLER: **DATE Signed:**

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

30487979

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
	Calera, AL 35040			Address:	744 Highway 87 GSC Bldg #8
Email To:	tbwill@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6101 Fax:	Project Name:	Plant Gaston Ash Pond	Pace Project Manager:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGASAP_1360	Pace Profile #:	16788

Regulatory Agency

State / Location: AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3			Y/N	Analyses Test: EPA 9315	EPA 9320	Total Radium Sum			Residual Chlorine (Y/N)	
1	BC08200	MW-18	APCO-GN-AP-MW-18	APCO_Gaston_AshPond				GW	G	4/26/2022	11:30	1			X				X	X	X				032
2	BC08201	MW-17V	APCO-GN-AP-MW-17V	APCO_Gaston_AshPond				GW	G	4/26/2022	13:22	1			X				X	X	X				033
3	BC08202	MW-29H	APCO-GN-AP-MW-29H	APCO_Gaston_AshPond				GW	G	4/26/2022	15:30	1			X				X	X	X				034
4	BC08203	MW-16V	APCO-GN-AP-MW-16V	APCO_Gaston_AshPond				GW	G	4/27/2022	10:25	1			X				X	X	X				035
5	BC08204	MW-16	APCO-GN-AP-MW-16	APCO_Gaston_AshPond				GW	G	4/27/2022	12:05	1			X				X	X	X				036
6	BC08205	MW-28H	APCO-GN-AP-MW-28H	APCO_Gaston_AshPond				GW	G	4/27/2022	13:25	1			X				X	X	X				037
7	BC08206	MW-28H Dup	APCO-GN-AP-MW-28H	APCO_Gaston_AshPond	X			GW	G	4/27/2022	13:25	1			X				X	X	X				038
8	BC08207	MW-14	APCO-GN-AP-MW-14	APCO_Gaston_AshPond				GW	G	4/27/2022	15:15	1			X				X	X	X				039
9	BC08208	FB-4	APCO-GN-AP-FB-04	APCO_Gaston_AshPond				GW	G	4/27/2022	16:00	1			X				X	X	X				040
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	5/4/2022	10:49		5-4-22	0930	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TJ Daugherty

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

30451979

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
	Calera, AL 35040			Address:	744 Highway 87 GSC Bldg #8
Email To:	tbwill@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6101 Fax:	Project Name:	Plant Gaston Ash Pond	Pace Project Manager:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGASAP_1360	Pace Profile #:	16788

Regulatory Agency

State / Location: AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	Y/N: Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)	
1	BC08559	MW-8	APCO-GN-AP-MW-8	APCO_Gaston_AshPond				GW	G	5/2/2022	10:20	1			X		X	X	X		041
2	BC08560	MW-9	APCO-GN-AP-MW-9	APCO_Gaston_AshPond				GW	G	5/2/2022	12:10	1			X		X	X	X		042
3	BC08561	MW-10	APCO-GN-AP-MW-10	APCO_Gaston_AshPond				GW	G	5/2/2022	14:15	1			X		X	X	X		043
4	BC08562	MW-11	APCO-GN-AP-MW-11	APCO_Gaston_AshPond				GW	G	5/2/2022	16:05	1			X		X	X	X		044
5	BC08563	MW-7	APCO-GN-AP-MW-7	APCO_Gaston_AshPond				GW	G	5/3/2022	9:55	1			X		X	X	X		045
6	BC08564	MW-6	APCO-GN-AP-MW-6	APCO_Gaston_AshPond		x		GW	G	5/3/2022	11:00	3			X		X	X	X		046,047,048
7	BC08565	MW-21	APCO-GN-AP-MW-21	APCO_Gaston_AshPond				GW	G	5/3/2022	12:10	1			X		X	X	X		049
8	BC08566	MW-22	APCO-GN-AP-MW-22	APCO_Gaston_AshPond				GW	G	5/3/2022	13:20	1			X		X	X	X		050
9	BC08567	EB-1	APCO-GN-AP-EB-01	APCO_Gaston_AshPond				GW	G	5/3/2022	13:45	1			X		X	X	X		051
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	5/4/2022	10:49	[signature]	5-4-22	0930	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TJ Daugherty

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

30487979

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
	Calera, AL 35040			Address:	744 Highway 87 GSC Bldg #8
Email To:	tbwill@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6101 Fax:	Project Name:	Plant Gaston Ash Pond	Pace Project Manager:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGASAP_1360	Pace Profile #:	16788

Regulatory Agency

State / Location: AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3			Y/N	Analyses Test: EPA 9315	EPA 9320	Total Radium Sum			Residual Chlorine (Y/N)	
1	BC08568	MW-27	APCO-GN-AP-MW-27	APCO_Gaston_AshPond				GW	G	5/2/2022	10:24	1			X				X	X	X				052
2	BC08569	MW-27 Dup	APCO-GN-AP-MW-27	APCO_Gaston_AshPond	X			GW	G	5/2/2022	10:24	1			X				X	X	X				053
3	BC08570	FB-5	APCO-GN-AP-FB-05	APCO_Gaston_AshPond				GW	G	5/2/2022	10:40	1			X				X	X	X				054
4	BC08571	MW-13	APCO-GN-AP-MW-13	APCO_Gaston_AshPond				GW	G	5/2/2022	15:12	1			X				X	X	X				055
5	BC08572	MW-12	APCO-GN-AP-MW-12	APCO_Gaston_AshPond				GW	G	5/3/2022	10:10	1			X				X	X	X				056
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	5/4/2022	10:49		5-9-22	0936	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anthony Goggins

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

30487979

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
				Address:	744 Highway 87 GSC Bldg #8
Email To:	tbwill@southernco.com	Purchase Order #:	APC10755638	Pace Quote:	CCR
Phone:	205-664-6101 Fax:	Project Name:	Plant Gaston Ash Pond	Pace Project Manager:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGASAP_1360	Pace Profile #:	16788

Regulatory Agency

State / Location: AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3			Y/N Analyses Test: EPA 9315	EPA 9320	Total Radium Sum			Residual Chlorine (Y/N)	
1	BC08573	MW-30H	APCO-GN-AP-MW-30H	APCO_Gaston_AshPond				GW	G	5/2/2022	10:18	1			X			X	X	X				057
2	BC08574	MW-15R	APCO-GN-AP-MW-15R	APCO_Gaston_AshPond				GW	G	5/2/2022	11:48	1			X			X	X	X				058
3	BC08575	MW-4	APCO-GN-AP-MW-4	APCO_Gaston_AshPond				GW	G	5/2/2022	14:13	1			X			X	X	X				0589 MS 5-11-22
4	BC08576	MW-3	APCO-GN-AP-MW-3	APCO_Gaston_AshPond				GW	G	5/3/2022	8:45	1			X			X	X	X				060
5	BC08577	MW-5	APCO-GN-AP-MW-5	APCO_Gaston_AshPond				GW	G	5/3/2022	10:15	1			X			X	X	X				061
6	BC08578	MW-5 Dup	APCO-GN-AP-MW-5	APCO_Gaston_AshPond	X			GW	G	5/3/2022	10:15	1			x			X	X	X				062
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	5/4/2022	10:49	[signature]	5-9-22	0930	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dallas Gentry

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Alabama Power Co. Project # 30487979

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

Label MJS

Tracking #: 5701 6585 2570 / 5701 6585 2525

LIMS Login MJS

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Thermometer Used — Type of Ice: Wet Blue (None)

Cooler Temperature Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot# 10029111 Date and Initials of person examining contents: JAK 5/11/22

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix:	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests	✓		✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16. pH < 2
All containers meet method preservation requirements.	✓			Initial when completed JAK Date/time of preservation 05/11/22 16:00
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: JAK Date: 05/11/22 Survey Meter SN: 1563

JAK 05/11/22 22

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

LIMS30 Internal Shipping Manifest

COOLER 2

Shipping Laboratory Location Code		Receiving Laboratory Location Code	
BEAV		GBUR	
Pace Beaver: 225 Industrial Park Road Beaver WV 25813		Pace Greensburg: 1638 Roseytown Road Suite 2,3,4 Greensburg PA 15601	
Shipping information		**Received information**	
Cooler ID	2	Cooler temp (rcvd) °C	3.7
Packaged on Ice (Y/N)	Y	Correction Factor	-0.0
Shipping Method	COURIER	Cooler temp (corr) °C	3.7
Tracking #		IR GUN ID	17
PWS* Drinking water?		Received on ice?	Yes

* If sample is from a PWS, the PWSID can be found in LIMS30

	Signature	Location	Date	Time
Relinquished	Bernard Jacoby	BEAV	5-11-22 1630	
Received		GBR	5-11-22	2200
Relinquished				
Received				
Relinquished				
Received				

Logger	Scan Date	Container ID	Type	LIMS Lab ID	LIMS Work Order
BET	5/11/2022	30487893001 VG9H1/3	VG9H	30487893001	30487893
BET	5/11/2022	30487893001 VG9H2/3	VG9H	30487893001	30487893
BET	5/11/2022	30487893001 VG9H3/3	VG9H	30487893001	30487893
BET	5/11/2022	30487893002 VG9H1/2	VG9H	30487893002	30487893
BET	5/11/2022	30487893002 VG9H2/2	VG9H	30487893002	30487893
BET	5/11/2022	30487901001 VG9H1/3	VG9H	30487901001	30487901
BET	5/11/2022	30487901001 VG9H2/3	VG9H	30487901001	30487901
BET	5/11/2022	30487901001 VG9H3/3	VG9H	30487901001	30487901
BET	5/11/2022	30487901002 VG9H1/3	VG9H	30487901002	30487901
BET	5/11/2022	30487901002 VG9H2/3	VG9H	30487901002	30487901
BET	5/11/2022	30487901002 VG9H3/3	VG9H	30487901002	30487901
BET	5/11/2022	30487901003 VG9H1/3	VG9H	30487901003	30487901
BET	5/11/2022	30487901003 VG9H2/3	VG9H	30487901003	30487901
BET	5/11/2022	30487901003 VG9H3/3	VG9H	30487901003	30487901
BET	5/11/2022	30487901004 VG9H1/3	VG9H	30487901004	30487901
BET	5/11/2022	30487901004 VG9H2/3	VG9H	30487901004	30487901
BET	5/11/2022	30487901004 VG9H3/3	VG9H	30487901004	30487901
BET	5/11/2022	30487901005 VG9H1/3	VG9H	30487901005	30487901
BET	5/11/2022	30487901005 VG9H2/3	VG9H	30487901005	30487901
BET	5/11/2022	30487901005 VG9H3/3	VG9H	30487901005	30487901
BET	5/11/2022	30487901006 VG9H1/3	VG9H	30487901006	30487901
BET	5/11/2022	30487901006 VG9H2/3	VG9H	30487901006	30487901
BET	5/11/2022	30487901006 VG9H3/3	VG9H	30487901006	30487901
BET	5/11/2022	30487901007 VG9H1/3	VG9H	30487901007	30487901
BET	5/11/2022	30487901007 VG9H2/3	VG9H	30487901007	30487901
BET	5/11/2022	30487901007 VG9H3/3	VG9H	30487901007	30487901
BET	5/11/2022	30487901008 VG9H1/3	VG9H	30487901008	30487901
BET	5/11/2022	30487901008 VG9H2/3	VG9H	30487901008	30487901
BET	5/11/2022	30487901008 VG9H3/3	VG9H	30487901008	30487901
BET	5/11/2022	30487901009 VG9H1/1	VG9H	30487901009	30487901
BET	5/11/2022	30487879001 DG9H1/3	DG9H	30487879001	30487879
BET	5/11/2022	30487879001 DG9H2/3	DG9H	30487879001	30487879
BET	5/11/2022	30487879001 DG9H3/3	DG9H	30487879001	30487879
BET	5/11/22 0:00	30487879002 DG9H3/3	DG9H	30487879002	30487879

WO# : 30487879

LIMS30 Internal Shipping Manifest

COOLER 2

Shipping Laboratory Location Code		Receiving Laboratory Location Code	
BEAV		GBUR	
Pace Beaver: 225 Industrial Park Road Beaver WV 25813		Pace Greensburg: 1638 Roseytown Road Suite 2,3,4 Greensburg PA 15601	
Shipping Information		Received information	
Cooler ID	2	Cooler temp (rcvd) °C	3.7
Packaged on Ice (Y/N)	Y	Correction Factor	-0.0
Shipping Method	COURIER	Cooler temp (corr) °C	3.7
Tracking #		IR GUN ID	17
PWS* Drinking water?		Received on ice?	Yes

* If sample is from a PWS, the PWSID can be found in LIMS30

	Signature	Location	Date	Time
Relinquished		BEAV		
Received	M	GBR	5-11-22	2200
Relinquished				
Received				
Relinquished				
Received				

Logger	Scan Date	Container ID	Type	LIMS Lab ID	LIMS Work Order
BET	5/11/22 0:00	30487879002 DG9H1/3	DG9H	30487879002	30487879
BET	5/11/22 0:00	30487879002 DG9H2/3	DG9H	30487879002	30487879
BET	5/11/22 0:00	30487879003 DG9H3/3	DG9H	30487879003	30487879
BET	5/11/22 0:00	30487879003 DG9H2/3	DG9H	30487879003	30487879
BET	5/11/22 0:00	30487879003 DG9H1/3	DG9H	30487879003	30487879
BET	5/11/22 0:00	30487879004 DG9H1/3	DG9H	30487879004	30487879
BET	5/11/22 0:00	30487879004 DG9H3/3	DG9H	30487879004	30487879
BET	5/11/22 0:00	30487879004 DG9H2/3	DG9H	30487879004	30487879
BET	5/11/22 0:00	30487879005 DG9H3/3	DG9H	30487879005	30487879
BET	5/11/22 0:00	30487879005 DG9H2/3	DG9H	30487879005	30487879
BET	5/11/22 0:00	30487879005 DG9H1/3	DG9H	30487879005	30487879
BET	5/11/22 0:00	30487879006 DG9H3/3	DG9H	30487879006	30487879
BET	5/11/22 0:00	30487879006 DG9H2/3	DG9H	30487879006	30487879
BET	5/11/22 0:00	30487879006 DG9H1/3	DG9H	30487879006	30487879
BET	5/11/22 0:00	30487879007 DG9H2/3	DG9H	30487879007	30487879
BET	5/11/22 0:00	30487879007 DG9H1/3	DG9H	30487879007	30487879
BET	5/11/22 0:00	30487879007 DG9H3/3	DG9H	30487879007	30487879
BET	5/11/22 0:00	30487879008 DG9H1/3	DG9H	30487879008	30487879
BET	5/11/22 0:00	30487879008 DG9H2/3	DG9H	30487879008	30487879
BET	5/11/22 0:00	30487879008 DG9H3/3	DG9H	30487879008	30487879
BET	5/11/22 0:00	30487879009 DG9H1/3	DG9H	30487879009	30487879
BET	5/11/22 0:00	30487879009 DG9H2/3	DG9H	30487879009	30487879
BET	5/11/22 0:00	30487879009 DG9H3/3	DG9H	30487879009	30487879
BET	5/11/22 0:00	30487879010 DG9H1/3	DG9H	30487879010	30487879
BET	5/11/22 0:00	30487879010 DG9H2/3	DG9H	30487879010	30487879
BET	5/11/22 0:00	30487879010 DG9H3/3	DG9H	30487879010	30487879
BET	5/11/22 0:00	30487879001 VG9U2/3	VG9U	30487879001	30487879
BET	5/11/22 0:00	30487879001 VG9U1/3	VG9U	30487879001	30487879
BET	5/11/22 0:00	30487879001 VG9U3/3	VG9U	30487879001	30487879
BET	5/11/22 0:00	30487879002 BP3N1/1	BP3N	30487879002	30487879
BET	5/11/22 0:00	30487879002 VG9U2/3	VG9U	30487879002	30487879
BET	5/11/22 0:00	30487879002 VG9U3/3	VG9U	30487879002	30487879
BET	5/11/22 0:00	30487879003 VG9U3/3	VG9U	30487879003	30487879
BET	5/11/22 0:00	30487879003 VG9U1/3	VG9U	30487879003	30487879
BET	5/11/22 0:00	30487879003 VG9U2/3	VG9U	30487879003	30487879
BET	5/11/22 0:00	30487879004 VG9U3/3	VG9U	30487879004	30487879
BET	5/11/22 0:00	30487879004 VG9U2/3	VG9U	30487879004	30487879

WO#:30487879
Due Date: 05/31/22
PM: SCR
CLIENT: ALABAMA PWR

LIMS30 Internal Shipping Manifest

COOLER 2

Shipping Laboratory Location Code		Receiving Laboratory Location Code	
BEAV		GBUR	
Pace Beaver: 225 Industrial Park Road Beaver WV 25813		Pace Greensburg: 1638 Roseytown Road Suite 2,3,4 Greensburg PA 15601	
Shipping information		Received information	
Cooler ID	2	Cooler temp (rcvd) °C	3.7
Packaged on Ice (Y/N)	Y	Correction Factor	-0.0
Shipping Method	COURIER	Cooler temp (corr) °C	3.7
Tracking #		IR GUN ID	17
PWS* Drinking water?		Received on ice?	Yes

* If sample is from a PWS, the PWSID can be found in LIMS30

	Signature	Location	Date	Time
Relinquished		BEAV		2
Received		GBR	5-11-22	2200
Relinquished				
Received				
Relinquished				
Received				

WO#:30487879
Due Date: 05/31/22
PM: SCR
CLIENT: ALABAMA PWR

Logger	Scan Date	Container ID	Type	LIMS Lab ID	LIMS Work Order
BET	5/11/22 0:00	30487879004 VG9U1/3	VG9U	30487879004	30487879
BET	5/11/22 0:00	30487879005 VG9U3/3	VG9U	30487879005	30487879
BET	5/11/22 0:00	30487879005 VG9U2/3	VG9U	30487879005	30487879
BET	5/11/22 0:00	30487879005 VG9U1/3	VG9U	30487879005	30487879
BET	5/11/22 0:00	30487879006 VG9U3/3	VG9U	30487879006	30487879
BET	5/11/22 0:00	30487879006 VG9U2/3	VG9U	30487879006	30487879
BET	5/11/22 0:00	30487879006 VG9U1/3	VG9U	30487879006	30487879
BET	5/11/22 0:00	30487879007 VG9U2/3	VG9U	30487879007	30487879
BET	5/11/22 0:00	30487879007 VG9U3/3	VG9U	30487879007	30487879
BET	5/11/22 0:00	30487879007 VG9U1/3	VG9U	30487879007	30487879
BET	5/11/22 0:00	30487879008 VG9U3/3	VG9U	30487879008	30487879
BET	5/11/22 0:00	30487879008 VG9U2/3	VG9U	30487879008	30487879
BET	5/11/22 0:00	30487879008 VG9U1/3	VG9U	30487879008	30487879
BET	5/11/22 0:00	30487879009 VG9U3/3	VG9U	30487879009	30487879
BET	5/11/22 0:00	30487879009 VG9U2/3	VG9U	30487879009	30487879
BET	5/11/22 0:00	30487879009 VG9U1/3	VG9U	30487879009	30487879
BET	5/11/22 0:00	30487879010 VG9U3/3	VG9U	30487879010	30487879
BET	5/11/22 0:00	30487879010 VG9U2/3	VG9U	30487879010	30487879
BET	5/11/22 0:00	30487879010 VG9U1/3	VG9U	30487879010	30487879
BET	5/11/22 0:00	30487879011 VG9U4/4	VG9U	30487879011	30487879
BET	5/11/22 0:00	30487879011 VG9U3/3	VG9U	30487879011	30487879
BET	5/11/22 0:00	30487879011 VG9U1/3	VG9U	30487879011	30487879
BET	5/11/22 0:00	30487879011 VG9U2/3	VG9U	30487879011	30487879
BET	5/11/22 0:00	30487879011 VG9H1/3	VG9H	30487879011	30487879
BET	5/11/22 0:00	30487879011 VG9H2/3	VG9H	30487879011	30487879
BET	5/11/22 0:00	30487879011 VG9H3/3	VG9H	30487879011	30487879
BET	5/11/22 0:00	30487879011 VG9H4/4	VG9H	30487879011	30487879
BET	5/11/22 0:00	30487880001 VG9U1/3	VG9U	30487880001	30487880
BET	5/11/22 0:00	30487880001 VG9U2/3	VG9U	30487880001	30487880
BET	5/11/22 0:00	30487880001 VG9U3/3	VG9U	30487880001	30487880
BET	5/11/22 0:00	30487880001 DG9H1/3	DG9H	30487880001	30487880
BET	5/11/22 0:00	30487880001 DG9H2/3	DG9H	30487880001	30487880
BET	5/11/22 0:00	30487880001 DG9H3/3	DG9H	30487880001	30487880
BET	5/11/22 0:00	30487880002 VG9U1/3	VG9U	30487880002	30487880
BET	5/11/22 0:00	30487880002 VG9U2/3	VG9U	30487880002	30487880
BET	5/11/22 0:00	30487880002 VG9U3/3	VG9U	30487880002	30487880
BET	5/11/22 0:00	30487880002 DG9H1/3	DG9H	30487880002	30487880

LIMS30 Internal Shipping Manifest

COOLER 2

Shipping Laboratory Location Code		Receiving Laboratory Location Code	
BEAV		GBUR	
Pace Beaver: 225 Industrial Park Road Beaver WV 25813		Pace Greensburg: 1638 Roseytown Road Suite 2,3,4 Greensburg PA 15601	
Shipping Information		Received Information	
Cooler ID	2	Cooler temp (rcvd) °C	3.7
Packaged on Ice (Y/N)	Y	Correction Factor	-0.9
Shipping Method	COURIER	Cooler temp (corr) °C	3.7
Tracking #		IR GUN ID	17
PWS* Drinking water?		Received on ice?	Yes

* If sample is from a PWS, the PWSID can be found in LIMS30

	Signature	Location	Date	Time
Relinquished		BEAV		
Received	[signature]	GBR	5-11-22	2200
Relinquished				
Received				
Relinquished				
Received				

WO#: 30487979
Due Date: 05/31/22
PM: SCR
CLIENT: ALABAMA PWR

Logger	Scan Date	Container ID	Type	LIMS Lab ID	LIMS Work Order
BET	5/11/22 0:00	30487880002 DG9H2/3	DG9H	30487880002	30487880
BET	5/11/22 0:00	30487880002 DG9H3/3	DG9H	30487880002	30487880
BET	5/11/22 0:00	30487880003 VG9U1/3	VG9U	30487880003	30487880
BET	5/11/22 0:00	30487880003 VG9U2/3	VG9U	30487880003	30487880
BET	5/11/22 0:00	30487880003 VG9U3/3	VG9U	30487880003	30487880
BET	5/11/22 0:00	30487880003 DG9H1/3	DG9H	30487880003	30487880
BET	5/11/22 0:00	30487880003 DG9H2/3	DG9H	30487880003	30487880
BET	5/11/22 0:00	30487880003 DG9H3/3	DG9H	30487880003	30487880
BET	5/11/22 0:00	30487880004 VG9U1/1	VG9U	30487880004	30487880
BET	5/11/22 0:00	30487880004 VG9H1/1	VG9H	30487880004	30487880
BET	5/11/22 0:00	30487881001 VG9U1/3	VG9U	30487881001	30487881
BET	5/11/22 0:00	30487881001 VG9U2/3	VG9U	30487881001	30487881
BET	5/11/22 0:00	30487881001 VG9U3/3	VG9U	30487881001	30487881
BET	5/11/22 0:00	30487881001 DG9H1/3	DG9H	30487881001	30487881
BET	5/11/22 0:00	30487881001 DG9H2/3	DG9H	30487881001	30487881
BET	5/11/22 0:00	30487881001 DG9H3/3	DG9H	30487881001	30487881
BET	5/11/22 0:00	30487881002 VG9U1/3	VG9U	30487881002	30487881
BET	5/11/22 0:00	30487881002 VG9U2/3	VG9U	30487881002	30487881
BET	5/11/22 0:00	30487881002 VG9U3/3	VG9U	30487881002	30487881
BET	5/11/22 0:00	30487881002 DG9H1/3	DG9H	30487881002	30487881
BET	5/11/22 0:00	30487881002 DG9H2/3	DG9H	30487881002	30487881
BET	5/11/22 0:00	30487881002 DG9H3/3	DG9H	30487881002	30487881
BET	5/11/22 0:00	30487881003 VG9U1/3	VG9U	30487881003	30487881
BET	5/11/22 0:00	30487881003 VG9U2/3	VG9U	30487881003	30487881
BET	5/11/22 0:00	30487881003 VG9U3/3	VG9U	30487881003	30487881
BET	5/11/22 0:00	30487881003 DG9H1/3	DG9H	30487881003	30487881
BET	5/11/22 0:00	30487881003 DG9H2/3	DG9H	30487881003	30487881
BET	5/11/22 0:00	30487881003 DG9H3/3	DG9H	30487881003	30487881
BET	5/11/22 0:00	30487881004 VG9U1/3	VG9U	30487881004	30487881
BET	5/11/22 0:00	30487881004 VG9U2/3	VG9U	30487881004	30487881
BET	5/11/22 0:00	30487881004 VG9U3/3	VG9U	30487881004	30487881
BET	5/11/22 0:00	30487881004 DG9H1/3	DG9H	30487881004	30487881
BET	5/11/22 0:00	30487881004 DG9H2/3	DG9H	30487881004	30487881
BET	5/11/22 0:00	30487881004 DG9H3/3	DG9H	30487881004	30487881
BET	5/11/22 0:00	30487881005 VG9U1/2	VG9U	30487881005	30487881
BET	5/11/22 0:00	30487881005 VG9U2/2	VG9U	30487881005	30487881
BET	5/11/22 0:00	30487881005 VG9H1/2	VG9H	30487881005	30487881

LIMS30 Internal Shipping Manifest

COOLER 2

Shipping Laboratory Location Code		Receiving Laboratory Location Code	
BEAV		GBUR	
Pace Beaver: 225 Industrial Park Road Beaver WV 25813		Pace Greensburg: 1638 Roseytown Road Suite 2,3,4 Greensburg PA 15601	
Shipping Information		**Received Information**	
Cooler ID	2	Cooler temp (rcvd) °C	3.1
Packaged on Ice (Y/N)	Y	Correction Factor	-0.0
Shipping Method	COURIER	Cooler temp (corr) °C	3.1
Tracking #		IR GUN ID	17
PWS* Drinking water?		Received on ice?	Yes

* If sample is from a PWS, the PWSID can be found in LIMS30

	Signature	Location	Date	Time
Relinquished		BEAV		
Received	[signature]	GBR	5-11-22	2200
Relinquished				
Received				
Relinquished				
Received				

Logger	Scan Date	Container ID	Type	LIMS Lab ID	LIMS Work Order
BET	5/11/22 0:00	30487881005 VG9H2/2	VG9H	30487881005	30487881

WO#:30487979
Due Date: 05/31/22
PM: SCR
CLIENT: ALABAMA PWR

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Beaver Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other 3rdp

Label N/A
LIMS Login N/A

Tracking #: Drop-off

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Thermometer Used 17 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 3.7 °C Correction Factor: -0.0 °C Final Temp: 3.7 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# ~	Date and Initials of person examining contents: 5-12-22 mf
Chain of Custody Present:	✓			1.	
Chain of Custody Filled Out:	✓			2.	
Chain of Custody Relinquished:	✓			3.	
Sampler Name & Signature on COC:		✓		4.	
Sample Labels match COC:	✓			5.	
-Includes date/time/ID Matrix: WT					
Samples Arrived within Hold Time:	✓			6.	
Short Hold Time Analysis (<72hr remaining):		✓		7.	
Rush Turn Around Time Requested:		✓		8.	
Sufficient Volume:	✓			9.	
Correct Containers Used:	✓			10.	
-Pace Containers Used:	✓				
Containers Intact:	✓			11.	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: (VOA), coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.	
All containers meet method preservation requirements.	✓			Initial when completed mf	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):		✓		17.	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed:	Date: / Survey Meter SN:

WO#:30487979
Due Date: 05/31/22
PM: SCR
CLIENT: ALABAMA PWR

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: VAL
Date: 5/13/2022
Worklist: 66646
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2437885
MB concentration:	0.239
M/B 2 Sigma CSU:	0.295
MB MDC:	0.623
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66646	LCSD66646
Count Date:	5/24/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.637	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.814	
Target Conc. (pCi/L, g, F):	4.377	
Uncertainty (Calculated):	0.214	
Result (pCi/L, g, F):	4.173	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.975	
Numerical Performance Indicator:	-0.40	
Percent Recovery:	95.35%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/20/2022	
Sample I.D.	30487979007	
Sample MS I.D.	30487979008	
Sample MSD I.D.	30487979009	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.039	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.801	
MS Target Conc.(pCi/L, g, F):	8.997	
MSD Aliquot (L, g, F):	0.801	
MSD Target Conc. (pCi/L, g, F):	9.003	
MS Spike Uncertainty (calculated):	0.441	
MSD Spike Uncertainty (calculated):	0.441	
Sample Result:	0.848	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.582	
Sample Matrix Spike Result:	10.077	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.119	
Sample Matrix Spike Duplicate Result:	9.483	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.994	
MS Numerical Performance Indicator:	0.204	
MSD Numerical Performance Indicator:	-0.340	
MS Percent Recovery:	102.59%	
MSD Percent Recovery:	95.91%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	30487979007
Sample MS I.D.	30487979008
Sample MSD I.D.	30487979009
Sample Matrix Spike Result:	10.077
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.119
Sample Matrix Spike Duplicate Result:	9.483
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.994
Duplicate Numerical Performance Indicator:	0.400
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	6.73%
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass
MS/ MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

OK 5/25/22

VAL
5/25/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	5/18/2022
Worklist:	66696
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2443951
MB concentration:	0.884
M/B 2 Sigma CSU:	0.377
MB MDC:	0.588
MB Numerical Performance Indicator:	4.60
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66696	LCSD66696
Count Date:	6/2/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.530	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.809	
Target Conc. (pCi/L, g, F):	4.390	
Uncertainty (Calculated):	0.215	
Result (pCi/L, g, F):	3.606	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.860	
Numerical Performance Indicator:	-1.73	
Percent Recovery:	82.16%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/19/2022	
Sample I.D.	30487979014	
Sample MS I.D.	30487979015	
Sample MSD I.D.	30487979016	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.051	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.800	
MS Target Conc.(pCi/L, g, F):	9.010	
MSD Aliquot (L, g, F):	0.808	
MSD Target Conc. (pCi/L, g, F):	8.929	
MS Spike Uncertainty (calculated):	0.442	
MSD Spike Uncertainty (calculated):	0.438	
Sample Result:	-0.011	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.251	
Sample Matrix Spike Result:	8.440	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.683	
Sample Matrix Spike Duplicate Result:	9.594	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.911	
MS Numerical Performance Indicator:	-0.623	
MSD Numerical Performance Indicator:	0.671	
MS Percent Recovery:	93.80%	
MSD Percent Recovery:	107.58%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30487979014	
Sample MS I.D.	30487979015	
Sample MSD I.D.	30487979016	
Sample Matrix Spike Result:	8.440	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.683	
Sample Matrix Spike Duplicate Result:	9.594	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.911	
Duplicate Numerical Performance Indicator:	-0.888	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	13.69%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable. OK

5/19/2022

VAL
6/3/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	5/18/2022
Worklist:	66698
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2443953
MB concentration:	0.387
M/B 2 Sigma CSU:	0.262
MB MDC:	0.493
MB Numerical Performance Indicator:	2.89
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66698	LCSD66698
Count Date:	6/7/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.473	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.813	
Target Conc. (pCi/L, g, F):	4.363	
Uncertainty (Calculated):	0.214	
Result (pCi/L, g, F):	3.918	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.904	
Numerical Performance Indicator:	-0.94	
Percent Recovery:	89.79%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/3/2022	
Sample I.D.	30487979046	
Sample MS I.D.	30487979047	
Sample MSD I.D.	30487979048	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	35.886	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.807	
MS Target Conc.(pCi/L, g, F):	8.898	
MSD Aliquot (L, g, F):	0.805	
MSD Target Conc. (pCi/L, g, F):	8.916	
MS Spike Uncertainty (calculated):	0.436	
MSD Spike Uncertainty (calculated):	0.437	
Sample Result:	0.255	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.275	
Sample Matrix Spike Result:	7.373	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.484	
Sample Matrix Spike Duplicate Result:	6.979	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.414	
MS Numerical Performance Indicator:	-2.221	
MSD Numerical Performance Indicator:	-2.855	
MS Percent Recovery:	80.00%	
MSD Percent Recovery:	75.42%	
MS Status vs Numerical Indicator:	Warning	
MSD Status vs Numerical Indicator:	Warning	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30487979046	
Sample MS I.D.	30487979047	
Sample MSD I.D.	30487979048	
Sample Matrix Spike Result:	7.373	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.484	
Sample Matrix Spike Duplicate Result:	6.979	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.414	
Duplicate Numerical Performance Indicator:	0.377	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	5.90%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

OK 6/8/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	5/18/2022
Worklist:	66700
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2443955
MB concentration:	0.314
M/B 2 Sigma CSU:	0.430
MB MDC:	0.900
MB Numerical Performance Indicator:	1.43
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS66700	LCSD66700
Count Date:	6/6/2022	6/6/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	35.484	35.484
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.805	0.816
Target Conc. (pCi/L, g, F):	4.408	4.349
Uncertainty (Calculated):	0.216	0.213
Result (pCi/L, g, F):	3.814	3.312
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.064	0.840
Numerical Performance Indicator:	-1.07	-2.35
Percent Recovery:	86.54%	76.15%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS66700	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD66700	
Sample Result (pCi/L, g, F):	3.814	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.064	
Sample Duplicate Result (pCi/L, g, F):	3.312	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.840	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.727	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.77%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

6/7/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	5/31/2022
Worklist:	66864
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2453809
MB concentration:	-0.040
M/B 2 Sigma CSU:	0.285
MB MDC:	0.683
MB Numerical Performance Indicator:	-0.28
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS66864	LCSD66864
Count Date:	6/6/2022	6/6/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	35.484	35.484
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.809	0.820
Target Conc. (pCi/L, g, F):	4.385	4.325
Uncertainty (Calculated):	0.215	0.212
Result (pCi/L, g, F):	0.240	3.338
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.410	0.900
Numerical Performance Indicator:	-17.55	-2.09
Percent Recovery:	5.46%	77.17%
Status vs Numerical Indicator:	Fail**	N/A
Status vs Recovery:	Fail Low**	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS66864	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD66864	
Sample Result (pCi/L, g, F):	0.240	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.410	
Sample Duplicate Result (pCi/L, g, F):	3.338	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.900	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-6.142	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	173.55%	
Duplicate Status vs Numerical Indicator:	Fail***	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

**Batch must be re-prepped due to LCS failure.
***Batch must be re-prepped due to unacceptable precision.

JV 6-7-22

06/8/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	5/27/2022
Batch ID:	66863
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2453807
MB concentration:	-0.044
M/B Counting Uncertainty:	0.150
MB MDC:	0.410
MB Numerical Performance Indicator:	-0.58
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS66863	LCSD66863
Count Date:	6/15/2022	6/15/2022
Spike I.D.:	21-040	21-040
Spike Concentration (pCi/mL):	32.430	32.430
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.656	0.655
Target Conc. (pCi/L, g, F):	4.942	4.950
Uncertainty (Calculated):	0.232	0.233
Result (pCi/L, g, F):	4.550	3.890
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.823	0.790
Numerical Performance Indicator:	-0.90	-2.52
Percent Recovery:	92.06%	78.59%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS66863	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD66863	
Sample Result (pCi/L, g, F):	4.550	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.823	
Sample Duplicate Result (pCi/L, g, F):	3.890	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.790	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.134	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.79%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

SLC 6/16/22

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	5/25/2022
Worklist:	66697
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2443952
MB concentration:	0.016
M/B Counting Uncertainty:	0.073
MB MDC:	0.195
MB Numerical Performance Indicator:	0.43
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66697	LCSD66697
Count Date:	5/31/2022	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.027	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.501	
Target Conc. (pCi/L, g, F):	4.792	
Uncertainty (Calculated):	0.058	
Result (pCi/L, g, F):	4.761	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.519	
Numerical Performance Indicator:	-0.12	
Percent Recovery:	99.35%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.	30487979014	
Sample MS I.D.	30487979015	
Sample MSD I.D.	30487979016	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	25.335	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.298	
MS Target Conc.(pCi/L, g, F):	17.012	
MSD Aliquot (L, g, F):	0.289	
MSD Target Conc. (pCi/L, g, F):	17.550	
MS Spike Uncertainty (calculated):	0.204	
MSD Spike Uncertainty (calculated):	0.211	
Sample Result:	0.024	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.191	
Sample Matrix Spike Result:	15.537	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.259	
Sample Matrix Spike Duplicate Result:	15.623	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.422	
MS Numerical Performance Indicator:	-2.279	
MSD Numerical Performance Indicator:	-2.637	
MS Percent Recovery:	91.19%	
MSD Percent Recovery:	88.88%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:		
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30487979014	
Sample MS I.D.	30487979015	
Sample MSD I.D.	30487979016	
Sample Matrix Spike Result:	15.537	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.259	
Sample Matrix Spike Duplicate Result:	15.623	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.422	
Duplicate Numerical Performance Indicator:	-0.089	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	2.56%	
MS/ MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

JC 6/1/22

VAM 6/1/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	JC2
Date:	5/26/2022
Worklist:	66701
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2443958
MB concentration:	0.082
M/B Counting Uncertainty:	0.089
MB MDC:	0.170
MB Numerical Performance Indicator:	1.83
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS66701	**LCSD66701**
Count Date:	6/2/2022	6/2/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.027	24.027
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.521	0.512
Target Conc. (pCi/L, g, F):	4.615	4.691
Uncertainty (Calculated):	0.055	0.056
Result (pCi/L, g, F):	4.476	5.032
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.489	0.510
Numerical Performance Indicator:	-0.55	1.30
Percent Recovery:	96.99%	107.28%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS66701	
Duplicate Sample I.D.	LCSD66701	
Sample Result (pCi/L, g, F):	4.476	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.489	
Sample Duplicate Result (pCi/L, g, F):	5.032	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.510	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.544	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.07%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

~~Evaluation of duplicate precision is not~~ applicable if either the sample ~~or duplicate results~~ are below the MDC.

Comments:

JM 6/3/22

LAM 6/3/22

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	6/2/2022
Worklist:	66699
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2443954
MB concentration:	0.000
M/B Counting Uncertainty:	0.069
MB MDC:	0.188
MB Numerical Performance Indicator:	0.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66699	LCSD66699
Count Date:	6/17/2022	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.026	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.507	
Target Conc. (pCi/L, g, F):	4.742	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.346	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.434	
Numerical Performance Indicator:	-1.77	
Percent Recovery:	91.64%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/3/2022	
Sample I.D.	30487979046	
Sample MS I.D.	30487979047	
Sample MSD I.D.	30487979048	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.027	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.261	
MS Target Conc.(pCi/L, g, F):	18.425	
MSD Aliquot (L, g, F):	0.322	
MSD Target Conc. (pCi/L, g, F):	14.932	
MS Spike Uncertainty (calculated):	0.221	
MSD Spike Uncertainty (calculated):	0.179	
Sample Result:	0.223	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.150	
Sample Matrix Spike Result:	19.186	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.257	
Sample Matrix Spike Duplicate Result:	15.222	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.999	
MS Numerical Performance Indicator:	0.821	
MSD Numerical Performance Indicator:	0.129	
MS Percent Recovery:	102.92%	
MSD Percent Recovery:	100.45%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:		
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30487979046	
Sample MS I.D.	30487979047	
Sample MSD I.D.	30487979048	
Sample Matrix Spike Result:	19.186	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.257	
Sample Matrix Spike Duplicate Result:	15.222	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.999	
Duplicate Numerical Performance Indicator:	4.840	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	2.43%	
MS/ MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

6/17/22

LAM 6/17/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	5/16/2022
Worklist:	66702
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2443959
MB concentration:	0.000
M/B Counting Uncertainty:	0.079
MB MDC:	0.222
MB Numerical Performance Indicator:	-0.01
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66702	LCSD66702
Count Date:	6/2/2022	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.027	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.519	
Target Conc. (pCi/L, g, F):	4.630	
Uncertainty (Calculated):	0.056	
Result (pCi/L, g, F):	4.372	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.481	
Numerical Performance Indicator:	-1.04	
Percent Recovery:	94.43%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/20/2022	
Sample I.D.	30487979007	
Sample MS I.D.	30487979008	
Sample MSD I.D.	30487979009	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.028	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.290	
MS Target Conc.(pCi/L, g, F):	16.547	
MSD Aliquot (L, g, F):	0.303	
MSD Target Conc. (pCi/L, g, F):	15.875	
MS Spike Uncertainty (calculated):	0.199	
MSD Spike Uncertainty (calculated):	0.190	
Sample Result:	0.275	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.209	
Sample Matrix Spike Result:	16.035	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.247	
Sample Matrix Spike Duplicate Result:	16.212	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.188	
MS Numerical Performance Indicator:	-1.206	
MSD Numerical Performance Indicator:	0.100	
MS Percent Recovery:	95.24%	
MSD Percent Recovery:	100.39%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:		
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30487979007	
Sample MS I.D.	30487979008	
Sample MSD I.D.	30487979009	
Sample Matrix Spike Result:	16.035	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.247	
Sample Matrix Spike Duplicate Result:	16.212	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.188	
Duplicate Numerical Performance Indicator:	-0.202	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	5.27%	
MS/ MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

6/3/22

LAM 6/3/22

Appendix D

GROUNDWATER STATS CONSULTING

July 19, 2022

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Gaston Ash Pond
1st Semi-Annual Analysis – April/May 2022

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the April/May 2022 1st semi-annual sample event for Alabama Power Company's Plant Gaston Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at site for the Coal Combustion Residuals (CCR) program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GN-AP-MW-2, GN-AP-MW-3, GN-AP-MW-38, GN-AP-MW-39, GN-AP-MW-40, GN-AP-MW-41, and GN-AP-MW-42
- **Downgradient wells:** GN-AP-MW-1, GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9, GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, and GN-AP-MW-22
- **Delineation wells:** GN-AP-MW-16V, GN-AP-MW-17V, GN-AP-MW-17SV, GN-AP-MW-20V, GN-AP-MW-20SV, GN-AP-MW-23D, GN-AP-MW-31VR, GN-AP-MW-32V, GN-AP-MW-33V, GN-AP-MW-34V, GN-AP-MW-35V, GN-AP-MW-36V, GN-AP-MW-37, GN-AP-MW-23S, GN-AP-MW-26, GN-AP-MW-27, GN-AP-MW-28H, GN-AP-MW-29H, and GN-AP-MW-30H

Data from delineation wells are included on time series and box plots but did not require formal statistics. Note that upgradient well GN-AP-MW-2 has been abandoned, but data are plotted on the time series graphs for historical data purposes to represent groundwater quality upgradient of the facility. Additionally, data from new upgradient wells GN-AP-MW-38, GN-AP-MW-39, GN-AP-MW-40, GN-AP-MW-41, and GN-AP-MW-42 were included in the construction of statistical limits during this analysis. Note that GN-AP-MW-1 was abandoned; therefore, it was not included in this analysis.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Senior Statistician and Founder of Groundwater Stats Consulting.

The CCR program consists of the following constituents:

> **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
> **Appendix IV** (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). A substitution of the most recent reporting limit is used for non-detect data. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance.

The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- Background Number: 45
- # Constituents: 7
- # Downgradient wells: 19

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, interwell prediction limits were utilized in the analysis of this site.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summary – Conducted in September 2019

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate the trend, as well as for outliers over the entire record. As discussed in the Statistical Analysis Plan (August 2020), interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Prior to performing prediction limits, proposed background data through April/May 2019 were reviewed to identify suspected outliers at all upgradient wells for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Both Tukey's Test and visual screening are used to identify potential outliers. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. Potential outliers that are identified by Tukey's test but are not greatly different from the rest of the data are not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summaries of Tukey's test results was included with the September 2019 screening.

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data from upgradient wells for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data is deselected prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. A statistically significant trend was noted in well GN-AP-MW-1 (previously an

upgradient well) for calcium and was included on Trend Test Summary Table during the September 2019 screening. No adjustment was required as the period of record was short and the magnitude of the trend was low relative to the average concentrations in background. Since that time, GN-AP-MW-1 was redesignated from an upgradient well to a downgradient well and is currently abandoned. No other statistically significant trends were noted.

Evaluation of Appendix III Parameters – April/May 2022

Interwell Prediction Limits

Background (upgradient) well data were re-assessed for potential outliers during this analysis and no new values were flagged. Values in background which have been previously flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of previously flagged outliers follows this report (Figure C).

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for all Appendix III parameters (Figure D). Interwell prediction limits pool upgradient well data through May 2022 to establish a background limit for an individual constituent. Although upgradient well GN-AP-MW-2 has been abandoned, the data represent groundwater quality upgradient of the facility; therefore, this well is included with all upgradient well data for calculation of statistical limits. The April/May 2022 sample from each downgradient well is compared to the background limits to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. A summary of the prediction limits results may be found in the Prediction Limit Summary tables following this letter. Several exceedances for interwell prediction limits were identified.

Trend Tests

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient

wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. Since the new upgradient wells GN-AP-MW-38, GN-AP-MW-39, GN-AP-MW-40, GN-AP-MW-41, and GN-AP-MW-42 currently have a maximum of 2 sample events, these wells were not included with the trend tests which require a minimum of 6 samples. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-15R, and GN-AP-MW-20
- Calcium: GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-16, GN-AP-MW-17, and GN-AP-MW-18
- Chloride: GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, and GN-AP-MW-20
- Sulfate: GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-17, and GN-AP-MW-19
- TDS: GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-16, GN-AP-MW-17, and GN-AP-MW-20

Decreasing:

- Sulfate: GN-AP-MW-5
- TDS: GN-AP-MW-8

Evaluation of Appendix IV Parameters – April/May 2022

Data from all upgradient wells for Appendix IV parameters were reassessed for outliers during this analysis. No changes to previously flagged outliers were made. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) were updated during the 2021 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through September 2021. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed (Figure F). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

These background limits are then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two is used as the GWPS (Figure G) in the confidence interval comparisons described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through May 2022 for each of the Appendix IV parameters. These intervals were either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects.

As mentioned above, well/constituent pairs containing 100% non-detects in the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (Figure H). Exceedances were noted for the following well/constituent pairs:

- Lithium: GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18 and GN-AP-MW-20
- Molybdenum: GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, and GN-AP-MW-20

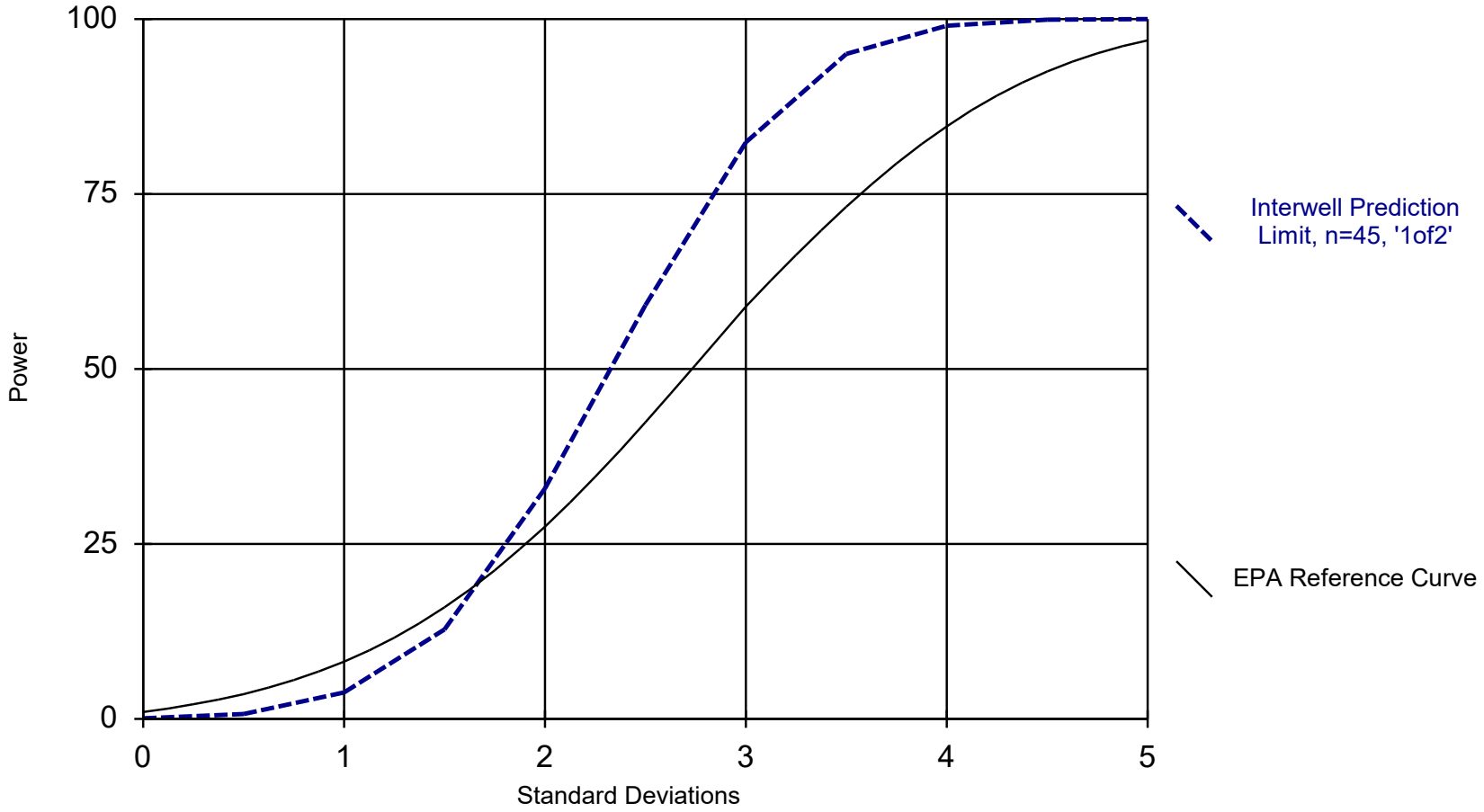
Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Gaston Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew Collins
Project Manager

Kristina Rayner
Senior Statistician

Interwell Power Curve



Kappa = 2.214, based on 19 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 7/1/2022 11:13 AM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

100% Non-Detects: Appendix IV Downgradient

Analysis Run 7/15/2022 2:44 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Antimony (mg/L)
GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-13, GN-AP-MW-16, GN-AP-MW-18, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-8, GN-AP-MW-9

Beryllium (mg/L)
GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9

Cadmium (mg/L)
GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9

Cobalt (mg/L)
GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-14, GN-AP-MW-17, GN-AP-MW-20, GN-AP-MW-4, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9

Lead (mg/L)
GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9

Lithium (mg/L)
GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-19, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9

Mercury (mg/L)
GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9

Selenium (mg/L)
GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9

Thallium (mg/L)
GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-19, GN-AP-MW-20, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, GN-AP-MW-5, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-8, GN-AP-MW-9

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.1015	n/a	5/2/2022	0.324	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-12	0.1015	n/a	5/3/2022	0.465	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-15R	0.1015	n/a	5/2/2022	2.36	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-16	0.1015	n/a	4/27/2022	1.47	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-17	0.1015	n/a	4/20/2022	3.43	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-18	0.1015	n/a	4/26/2022	1.65	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-20	0.1015	n/a	4/20/2022	4.49	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-21	0.1015	n/a	5/3/2022	1.61	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-22	0.1015	n/a	5/3/2022	1	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-4	0.1015	n/a	5/2/2022	0.109	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-5	0.1015	n/a	5/3/2022	0.562	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-6	0.1015	n/a	5/3/2022	1.81	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-7	0.1015	n/a	5/3/2022	1.3	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-11	38.36	n/a	5/2/2022	43.4	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-12	38.36	n/a	5/3/2022	65.3	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-13	38.36	n/a	5/2/2022	44.1	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-14	38.36	n/a	4/27/2022	85.3	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-15R	38.36	n/a	5/2/2022	93.2	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-16	38.36	n/a	4/27/2022	74.9	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-17	38.36	n/a	4/20/2022	240	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-18	38.36	n/a	4/26/2022	149	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-19	38.36	n/a	4/19/2022	45.6	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-20	38.36	n/a	4/20/2022	182	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-21	38.36	n/a	5/3/2022	73	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-22	38.36	n/a	5/3/2022	64	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-4	38.36	n/a	5/2/2022	56.8	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-5	38.36	n/a	5/3/2022	56.6	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-6	38.36	n/a	5/3/2022	68.8	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-7	38.36	n/a	5/3/2022	69	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-8	38.36	n/a	5/2/2022	52.4	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-11	6.09	n/a	5/2/2022	6.86	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-12	6.09	n/a	5/3/2022	18.9	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-15R	6.09	n/a	5/2/2022	79.9	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-16	6.09	n/a	4/27/2022	35.8	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-17	6.09	n/a	4/20/2022	186	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-18	6.09	n/a	4/26/2022	13.5	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-19	6.09	n/a	4/19/2022	13.7	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-20	6.09	n/a	4/20/2022	19.9	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-21	6.09	n/a	5/3/2022	30.6	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-22	6.09	n/a	5/3/2022	14.8	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-4	6.09	n/a	5/2/2022	8.75	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-5	6.09	n/a	5/3/2022	12.8	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-6	6.09	n/a	5/3/2022	26.9	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-7	6.09	n/a	5/3/2022	12.6	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-9	6.09	n/a	5/2/2022	8.5	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-16	7.99	6.07	4/27/2022	8.17	Yes	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-17	7.99	6.07	4/20/2022	9.25	Yes	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-11	14.35	n/a	5/2/2022	58.3	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-12	14.35	n/a	5/3/2022	97	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-14	14.35	n/a	4/27/2022	118	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-15R	14.35	n/a	5/2/2022	224	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-16	14.35	n/a	4/27/2022	191	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-17	14.35	n/a	4/20/2022	444	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-18	14.35	n/a	4/26/2022	216	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-19	14.35	n/a	4/19/2022	27.6	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-20	14.35	n/a	4/20/2022	575	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-21	14.35	n/a	5/3/2022	131	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-22	14.35	n/a	5/3/2022	74.2	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-5	14.35	n/a	5/3/2022	34	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-6	14.35	n/a	5/3/2022	115	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-7	14.35	n/a	5/3/2022	107	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-9	14.35	n/a	5/2/2022	17.9	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	GN-AP-MW-11	185	n/a	5/2/2022	234	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-12	185	n/a	5/3/2022	371	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-13	185	n/a	5/2/2022	201	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-14	185	n/a	4/27/2022	417	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-15R	185	n/a	5/2/2022	574	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-16	185	n/a	4/27/2022	369	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-17	185	n/a	4/20/2022	967	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-18	185	n/a	4/26/2022	596	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-19	185	n/a	4/19/2022	225	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-20	185	n/a	4/20/2022	946	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-21	185	n/a	5/3/2022	388	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-22	185	n/a	5/3/2022	308	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-4	185	n/a	5/2/2022	248	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-5	185	n/a	5/3/2022	239	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-6	185	n/a	5/3/2022	376	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-7	185	n/a	5/3/2022	329	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-8	185	n/a	5/2/2022	237	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-9	185	n/a	5/2/2022	209	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-10	0.1015	n/a	5/2/2022	0.0352J	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GN-AP-MW-11**	**0.1015**	**n/a**	**5/2/2022**	**0.324**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-12**	**0.1015**	**n/a**	**5/3/2022**	**0.465**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GN-AP-MW-13	0.1015	n/a	5/2/2022	0.1015ND	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-14	0.1015	n/a	4/27/2022	0.1015ND	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GN-AP-MW-15R**	**0.1015**	**n/a**	**5/2/2022**	**2.36**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-16**	**0.1015**	**n/a**	**4/27/2022**	**1.47**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-17**	**0.1015**	**n/a**	**4/20/2022**	**3.43**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-18**	**0.1015**	**n/a**	**4/26/2022**	**1.65**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GN-AP-MW-19	0.1015	n/a	4/19/2022	0.1015ND	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GN-AP-MW-20**	**0.1015**	**n/a**	**4/20/2022**	**4.49**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-21**	**0.1015**	**n/a**	**5/3/2022**	**1.61**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-22**	**0.1015**	**n/a**	**5/3/2022**	**1**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-4**	**0.1015**	**n/a**	**5/2/2022**	**0.109**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-5**	**0.1015**	**n/a**	**5/3/2022**	**0.562**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-6**	**0.1015**	**n/a**	**5/3/2022**	**1.81**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-7**	**0.1015**	**n/a**	**5/3/2022**	**1.3**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GN-AP-MW-8	0.1015	n/a	5/2/2022	0.0313J	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-9	0.1015	n/a	5/2/2022	0.1015ND	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-10	38.36	n/a	5/2/2022	37.8	No	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	**GN-AP-MW-11**	**38.36**	**n/a**	**5/2/2022**	**43.4**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-12**	**38.36**	**n/a**	**5/3/2022**	**65.3**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-13**	**38.36**	**n/a**	**5/2/2022**	**44.1**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-14**	**38.36**	**n/a**	**4/27/2022**	**85.3**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-15R**	**38.36**	**n/a**	**5/2/2022**	**93.2**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-16**	**38.36**	**n/a**	**4/27/2022**	**74.9**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-17**	**38.36**	**n/a**	**4/20/2022**	**240**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-18**	**38.36**	**n/a**	**4/26/2022**	**149**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-19**	**38.36**	**n/a**	**4/19/2022**	**45.6**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-20**	**38.36**	**n/a**	**4/20/2022**	**182**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-21**	**38.36**	**n/a**	**5/3/2022**	**73**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-22**	**38.36**	**n/a**	**5/3/2022**	**64**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-4**	**38.36**	**n/a**	**5/2/2022**	**56.8**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-5**	**38.36**	**n/a**	**5/3/2022**	**56.6**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-6**	**38.36**	**n/a**	**5/3/2022**	**68.8**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-7**	**38.36**	**n/a**	**5/3/2022**	**69**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-8**	**38.36**	**n/a**	**5/2/2022**	**52.4**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	GN-AP-MW-9	38.36	n/a	5/2/2022	30.9	No	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-10	6.09	n/a	5/2/2022	3.2	No	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GN-AP-MW-11**	**6.09**	**n/a**	**5/2/2022**	**6.86**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-12**	**6.09**	**n/a**	**5/3/2022**	**18.9**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GN-AP-MW-13	6.09	n/a	5/2/2022	4.32	No	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-14	6.09	n/a	4/27/2022	4.1	No	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GN-AP-MW-15R**	**6.09**	**n/a**	**5/2/2022**	**79.9**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-16**	**6.09**	**n/a**	**4/27/2022**	**35.8**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-17**	**6.09**	**n/a**	**4/20/2022**	**186**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-18**	**6.09**	**n/a**	**4/26/2022**	**13.5**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-19**	**6.09**	**n/a**	**4/19/2022**	**13.7**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-20**	**6.09**	**n/a**	**4/20/2022**	**19.9**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-21**	**6.09**	**n/a**	**5/3/2022**	**30.6**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-22**	**6.09**	**n/a**	**5/3/2022**	**14.8**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-4**	**6.09**	**n/a**	**5/2/2022**	**8.75**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-5**	**6.09**	**n/a**	**5/3/2022**	**12.8**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-6**	**6.09**	**n/a**	**5/3/2022**	**26.9**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-7**	**6.09**	**n/a**	**5/3/2022**	**12.6**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GN-AP-MW-8	6.09	n/a	5/2/2022	3.33	No	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GN-AP-MW-9**	**6.09**	**n/a**	**5/2/2022**	**8.5**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-AP-MW-10	0.181	n/a	5/2/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-11	0.181	n/a	5/2/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-12	0.181	n/a	5/3/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-13	0.181	n/a	5/2/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-14	0.181	n/a	4/27/2022	0.0652J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-15R	0.181	n/a	5/2/2022	0.08J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-16	0.181	n/a	4/27/2022	0.0766J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-17	0.181	n/a	4/20/2022	0.128	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-18	0.181	n/a	4/26/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-19	0.181	n/a	4/19/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-AP-MW-20	0.181	n/a	4/20/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-21	0.181	n/a	5/3/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-22	0.181	n/a	5/3/2022	0.0819J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-4	0.181	n/a	5/2/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-5	0.181	n/a	5/3/2022	0.0648J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-6	0.181	n/a	5/3/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-7	0.181	n/a	5/3/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-8	0.181	n/a	5/2/2022	0.111J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-9	0.181	n/a	5/2/2022	0.122J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
pH (pH)	GN-AP-MW-10	7.99	6.07	5/2/2022	7.12	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-11	7.99	6.07	5/2/2022	7.16	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-12	7.99	6.07	5/3/2022	7.39	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-13	7.99	6.07	5/2/2022	7.46	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-14	7.99	6.07	4/27/2022	7.07	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-15R	7.99	6.07	5/2/2022	7.49	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	**GN-AP-MW-16**	**7.99**	**6.07**	**4/27/2022**	**8.17**	**Yes**	**48**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001562**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-AP-MW-17**	**7.99**	**6.07**	**4/20/2022**	**9.25**	**Yes**	**48**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001562**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-AP-MW-18	7.99	6.07	4/26/2022	6.77	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-19	7.99	6.07	4/19/2022	7.63	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-20	7.99	6.07	4/20/2022	7.83	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-21	7.99	6.07	5/3/2022	7.48	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-22	7.99	6.07	5/3/2022	7.21	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-4	7.99	6.07	5/2/2022	6.68	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-5	7.99	6.07	5/3/2022	7.01	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-6	7.99	6.07	5/3/2022	7.63	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-7	7.99	6.07	5/3/2022	7.53	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-8	7.99	6.07	5/2/2022	7.44	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-9	7.99	6.07	5/2/2022	7.7	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-10	14.35	n/a	5/2/2022	4.75	No	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	**GN-AP-MW-11**	**14.35**	**n/a**	**5/2/2022**	**58.3**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-12**	**14.35**	**n/a**	**5/3/2022**	**97**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	GN-AP-MW-13	14.35	n/a	5/2/2022	1ND	No	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	**GN-AP-MW-14**	**14.35**	**n/a**	**4/27/2022**	**118**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-15R**	**14.35**	**n/a**	**5/2/2022**	**224**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-16**	**14.35**	**n/a**	**4/27/2022**	**191**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-17**	**14.35**	**n/a**	**4/20/2022**	**444**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-18**	**14.35**	**n/a**	**4/26/2022**	**216**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-19**	**14.35**	**n/a**	**4/19/2022**	**27.6**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-20**	**14.35**	**n/a**	**4/20/2022**	**575**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-21**	**14.35**	**n/a**	**5/3/2022**	**131**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-22**	**14.35**	**n/a**	**5/3/2022**	**74.2**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	GN-AP-MW-4	14.35	n/a	5/2/2022	11.1	No	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	**GN-AP-MW-5**	**14.35**	**n/a**	**5/3/2022**	**34**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-6**	**14.35**	**n/a**	**5/3/2022**	**115**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-7**	**14.35**	**n/a**	**5/3/2022**	**107**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	GN-AP-MW-8	14.35	n/a	5/2/2022	3.02	No	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	**GN-AP-MW-9**	**14.35**	**n/a**	**5/2/2022**	**17.9**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	GN-AP-MW-10	185	n/a	5/2/2022	173	No	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	**GN-AP-MW-11**	**185**	**n/a**	**5/2/2022**	**234**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-12**	**185**	**n/a**	**5/3/2022**	**371**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-13**	**185**	**n/a**	**5/2/2022**	**201**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-14**	**185**	**n/a**	**4/27/2022**	**417**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-15R**	**185**	**n/a**	**5/2/2022**	**574**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-16**	**185**	**n/a**	**4/27/2022**	**369**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-17**	**185**	**n/a**	**4/20/2022**	**967**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-18**	**185**	**n/a**	**4/26/2022**	**596**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-19**	**185**	**n/a**	**4/19/2022**	**225**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-20**	**185**	**n/a**	**4/20/2022**	**946**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-21**	**185**	**n/a**	**5/3/2022**	**388**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-22**	**185**	**n/a**	**5/3/2022**	**308**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-4**	**185**	**n/a**	**5/2/2022**	**248**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-5**	**185**	**n/a**	**5/3/2022**	**239**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-6**	**185**	**n/a**	**5/3/2022**	**376**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-7**	**185**	**n/a**	**5/3/2022**	**329**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-8**	**185**	**n/a**	**5/2/2022**	**237**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-9**	**185**	**n/a**	**5/2/2022**	**209**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.03294	116	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.03298	132	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.374	131	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-20	0.1526	92	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.183	70	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.215	73	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	2.765	87	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	18.02	100	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.166	84	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1678	80	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	11.22	139	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	2.1	126	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	7.583	123	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.373	105	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5325	81	68	Yes	18	5.556	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-20	0.6244	105	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.5047	87	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.209	123	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	4.71	84	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	31.34	84	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.138	77	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-19.72	-83	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	2.025	95	68	Yes	18	5.556	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	6.591	110	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	5.765	79	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	10.66	74	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	47.95	97	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-20	10.95	71	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-8.526	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	6.342	95	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**GN-AP-MW-11**	**0.03294**	**116**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GN-AP-MW-12**	**0.03298**	**132**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GN-AP-MW-15R**	**0.374**	**131**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GN-AP-MW-16	0.02049	56	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-17	0.07864	39	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.03097	47	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-2 (bg)	0	0	43	No	13	100	n/a	n/a	0.01	NP
Boron (mg/L)	**GN-AP-MW-20**	**0.1526**	**92**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GN-AP-MW-21	0.04042	17	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-22	0.01828	5	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-3 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-4	-0.02648	-37	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-5	-0.1273	-37	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-6	-0.01839	-11	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-7	0.02205	10	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-39 (bg)	0	NaN	NaN	No	3	100	n/a	n/a	NaN	NP
Boron (mg/L)	GN-AP-MW-40 (bg)	0.06603	NaN	NaN	No	3	66.67	n/a	n/a	NaN	NP
Boron (mg/L)	GN-AP-MW-41 (bg)	0	NaN	NaN	No	3	100	n/a	n/a	NaN	NP
Boron (mg/L)	GN-AP-MW-38 (bg)	0	NaN	NaN	No	3	100	n/a	n/a	NaN	NP
Boron (mg/L)	GN-AP-MW-42 (bg)	0	NaN	NaN	No	3	100	n/a	n/a	NaN	NP
Calcium (mg/L)	**GN-AP-MW-11**	**1.183**	**70**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-AP-MW-12**	**1.215**	**73**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-AP-MW-13	-0.02476	-3	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-14	-0.05967	-2	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-15R	8.384	72	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-AP-MW-16**	**2.765**	**87**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-AP-MW-17**	**18.02**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-AP-MW-18**	**4.166**	**84**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-AP-MW-19	0	0	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-2 (bg)	0.6928	22	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-20	2.777	44	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-21	3.304	37	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-22	5.877	56	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-3 (bg)	0.1279	20	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-4	0.1095	13	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-5	-1.093	-14	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-6	3.052	43	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-7	-0.1534	-1	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-8	-0.37	-31	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-39 (bg)	1.374	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Calcium (mg/L)	GN-AP-MW-40 (bg)	-1.276	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Calcium (mg/L)	GN-AP-MW-41 (bg)	2.747	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Calcium (mg/L)	GN-AP-MW-38 (bg)	0.09812	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Calcium (mg/L)	GN-AP-MW-42 (bg)	-0.6887	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	**GN-AP-MW-11**	**0.1678**	**80**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-AP-MW-12	-0.1137	-35	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-AP-MW-15R**	**11.22**	**139**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-AP-MW-16**	**2.1**	**126**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-AP-MW-17**	**7.583**	**123**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-AP-MW-18**	**0.373**	**105**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-AP-MW-19**	**0.5325**	**81**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-AP-MW-2 (bg)	-0.1215	-9	-43	No	13	7.692	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-AP-MW-20**	**0.6244**	**105**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-AP-MW-21	1.94	29	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-22	2.83	36	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-3 (bg)	-0.04472	-48	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-4	-1.583	-38	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-5	-0.5341	-6	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-6	6.636	63	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-7	1.195	41	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-AP-MW-9**	**0.5047**	**87**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GN-AP-MW-39 (bg)	-0.677	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	GN-AP-MW-40 (bg)	-2.06	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	GN-AP-MW-41 (bg)	-0.3336	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	GN-AP-MW-38 (bg)	-0.628	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	GN-AP-MW-42 (bg)	-0.3739	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-16	-0.01162	-27	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.04756	-63	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-2 (bg)	-0.02103	-11	-48	No	14	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-3 (bg)	-0.005505	-20	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-39 (bg)	-0.2355	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-40 (bg)	-0.08831	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-41 (bg)	-0.3728	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-38 (bg)	-0.07849	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-42 (bg)	0.1673	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	**GN-AP-MW-11**	**4.209**	**123**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-AP-MW-12**	**4.71**	**84**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-14	7.41	54	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-15R	20.75	71	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	7.184	58	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-AP-MW-17**	**31.34**	**84**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-18	8.33	56	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-AP-MW-19**	**1.138**	**77**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-2 (bg)	-0.2042	-15	-43	No	13	7.692	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-20	3.891	24	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-21	4.451	27	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-22	-8.859	-38	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-3 (bg)	-0.2837	-43	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-AP-MW-5**	**-19.72**	**-83**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-6	-2.368	-42	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-7	-5.964	-42	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-AP-MW-9**	**2.025**	**95**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-39 (bg)	-3.14	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	GN-AP-MW-40 (bg)	-6.178	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	GN-AP-MW-41 (bg)	-1.59	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	GN-AP-MW-38 (bg)	-9.694	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	GN-AP-MW-42 (bg)	-2.627	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	**GN-AP-MW-11**	**6.591**	**110**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-AP-MW-12**	**5.765**	**79**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-AP-MW-13	-0.5668	-20	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-14	13.15	57	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-15R	40.58	54	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-AP-MW-16**	**10.66**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-AP-MW-17**	**47.95**	**97**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-AP-MW-18	10.59	68	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-19	0.9107	21	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-2 (bg)	-1.254	-10	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-AP-MW-20**	**10.95**	**71**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-AP-MW-21	5.132	15	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-22	4.465	12	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-3 (bg)	-0.5376	-15	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-12.03	-56	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-5	-13.49	-37	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-6	8.707	39	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-7	0	-1	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-AP-MW-8**	**-8.526**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-AP-MW-9**	**6.342**	**95**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-AP-MW-39 (bg)	-1.962	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	GN-AP-MW-40 (bg)	-10.79	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	GN-AP-MW-41 (bg)	11.77	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	GN-AP-MW-38 (bg)	-6.868	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	GN-AP-MW-42 (bg)	-9.838	NaN	NaN	No	3	0	n/a	n/a	NaN	NP

Upper Tolerance Limits - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/6/2022, 6:28 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.00102	n/a	n/a	n/a	n/a	40	92.5	n/a	0.1285	NP Inter
Arsenic (mg/L)	0.00105	n/a	n/a	n/a	n/a	40	72.5	n/a	0.1285	NP Inter
Barium (mg/L)	0.0283	n/a	n/a	n/a	n/a	40	0	n/a	0.1285	NP Inter
Beryllium (mg/L)	0.00102	n/a	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter
Cadmium (mg/L)	0.000855	n/a	n/a	n/a	n/a	40	95	n/a	0.1285	NP Inter
Chromium (mg/L)	0.01	n/a	n/a	n/a	n/a	40	70	n/a	0.1285	NP Inter
Cobalt (mg/L)	0.00168	n/a	n/a	n/a	n/a	40	87.5	n/a	0.1285	NP Inter
Combined Radium 226 + 228 (pCi/L)	3	n/a	n/a	n/a	n/a	38	0	n/a	0.1424	NP Inter
Fluoride (mg/L)	0.181	n/a	n/a	n/a	n/a	42	57.14	n/a	0.116	NP Inter
Lead (mg/L)	0.00128	n/a	n/a	n/a	n/a	40	87.5	n/a	0.1285	NP Inter
Lithium (mg/L)	0.02	n/a	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter
Mercury (mg/L)	0.0005	n/a	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter
Molybdenum (mg/L)	0.00856	n/a	n/a	n/a	n/a	40	32.5	n/a	0.1285	NP Inter
Selenium (mg/L)	0.00102	n/a	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter
Thallium (mg/L)	0.000648	n/a	n/a	n/a	n/a	40	82.5	n/a	0.1285	NP Inter

GASTON AP GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.00105	0.01
Barium	mg/L	0.0283	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.000855	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.00168	0.006
Combined Radium-226/228	pCi/L	3	5
Fluoride	mg/L	0.181	4
Lead	mg/L	0.00128	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00856	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.000648	0.002

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.

4. GWPS established during second semi-annual sampling event in 2021.

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/15/2022, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-AP-MW-12	0.00102	0.000871	0.006	No	8	0.001001	0.00005268	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-14	0.00102	0.000939	0.006	No	8	0.00101	0.00002864	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-15R	0.00113	0.000998	0.006	No	8	0.001031	0.00004074	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-17	0.001126	0.0005645	0.006	No	8	0.0009485	0.000228	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	GN-AP-MW-19	0.00123	0.00102	0.006	No	8	0.001046	0.00007425	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-6	0.00102	0.000819	0.006	No	8	0.0009949	0.00007106	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-7	0.00102	0.00089	0.006	No	8	0.001004	0.00004596	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-10	0.005	0.00024	0.01	No	8	0.003224	0.002451	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-11	0.005	0.00017	0.01	No	8	0.003198	0.002487	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-12	0.007034	0.002418	0.01	No	8	0.004726	0.002177	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-13	0.005	0.00043	0.01	No	8	0.003326	0.002311	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-14	0.005	0.000441	0.01	No	8	0.002835	0.002322	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-15R	0.00282	0.0005553	0.01	No	8	0.001645	0.00144	12.5	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-16	0.005585	0.004542	0.01	No	8	0.005064	0.0004922	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-17	0.01135	0.009043	0.01	No	8	0.0102	0.001088	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-18	0.0067	0.00265	0.01	No	8	0.003539	0.001366	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-19	0.00361	0.00196	0.01	No	8	0.002505	0.0005844	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-20	0.004285	0.003642	0.01	No	8	0.003964	0.0003032	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-21	0.002368	0.0009454	0.01	No	8	0.001639	0.0007351	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-22	0.005	0.00015	0.01	No	8	0.002724	0.00246	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-4	0.005	0.000142	0.01	No	8	0.003185	0.002505	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-5	0.005	0.000148	0.01	No	8	0.003182	0.002509	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-6	0.005	0.0000955	0.01	No	8	0.003173	0.002521	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-7	0.005	0.00016	0.01	No	8	0.003193	0.002494	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-8	0.005	0.00107	0.01	No	8	0.00183	0.00132	12.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-9	0.003033	0.002225	0.01	No	8	0.002629	0.0003814	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-10	0.01403	0.01265	2	No	8	0.01334	0.0006523	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-11	0.009656	0.008207	2	No	8	0.008931	0.0006833	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-12	0.08062	0.07013	2	No	8	0.07538	0.004949	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-13	0.04239	0.03556	2	No	8	0.03898	0.003225	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-14	0.07667	0.06433	2	No	8	0.0705	0.005823	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-15R	0.134	0.0541	2	No	8	0.07448	0.02577	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-AP-MW-16	0.0482	0.0312	2	No	8	0.0397	0.008018	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-17	0.12	0.0898	2	No	8	0.1095	0.01175	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-AP-MW-18	0.05255	0.04483	2	No	8	0.04869	0.003643	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-19	0.01949	0.01463	2	No	8	0.01706	0.002292	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-20	0.06302	0.0573	2	No	8	0.06016	0.002698	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-21	0.04481	0.02179	2	No	8	0.0333	0.01086	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-22	0.04594	0.03194	2	No	8	0.03894	0.006606	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-4	0.02953	0.01409	2	No	8	0.02181	0.007285	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-5	0.03468	0.02337	2	No	8	0.02903	0.005333	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-6	0.02547	0.02058	2	No	8	0.02303	0.002311	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-7	0.02763	0.02122	2	No	8	0.02443	0.003026	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-8	0.0205	0.017	2	No	8	0.01875	0.001649	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-9	0.1171	0.1047	2	No	8	0.1109	0.005866	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-AP-MW-16	0.0002	0.00008	0.005	No	8	0.0001725	0.00005122	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GN-AP-MW-17	0.00051	0.0002	0.005	No	8	0.0003515	0.0001371	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	GN-AP-MW-20	0.0002	0.00008	0.005	No	8	0.0001666	0.00004828	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-10	0.00102	0.00025	0.1	No	8	0.0007356	0.0003925	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-11	0.00102	0.00065	0.1	No	8	0.0009266	0.0001483	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-12	0.00102	0.000278	0.1	No	8	0.0008485	0.000319	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-13	0.00102	0.00027	0.1	No	8	0.0007554	0.0003659	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-14	0.00102	0.000234	0.1	No	8	0.0007355	0.0003931	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-15R	0.00102	0.00027	0.1	No	8	0.0008071	0.0003302	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-16	0.00102	0.00021	0.1	No	8	0.0007436	0.0003829	62.5	None	No	0.004	NP (NDs)

Confidence Intervals - All Results

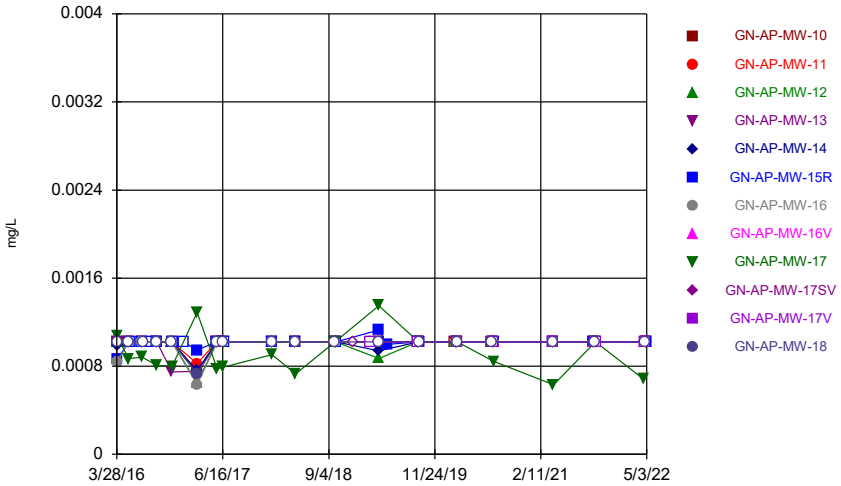
Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/15/2022, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GN-AP-MW-17	0.00102	0.00028	0.1	No	8	0.0007621	0.0003568	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-18	0.00102	0.00024	0.1	No	8	0.0007455	0.0003797	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-19	0.00102	0.00024	0.1	No	8	0.0007445	0.0003808	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-20	0.00186	0.00029	0.1	No	8	0.0009537	0.00048	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-21	0.00102	0.00032	0.1	No	8	0.0008512	0.0003127	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-22	0.00102	0.00026	0.1	No	8	0.0007471	0.0003769	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-4	0.00102	0.00074	0.1	No	8	0.0009461	0.0001115	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-5	0.00102	0.000278	0.1	No	8	0.0007585	0.0003616	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-6	0.00102	0.000259	0.1	No	8	0.0007511	0.0003719	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-7	0.00102	0.00035	0.1	No	8	0.0007907	0.0003196	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-8	0.00102	0.00031	0.1	No	8	0.0007566	0.0003636	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-9	0.00102	0.00029	0.1	No	8	0.0007506	0.0003719	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-12	0.00022	0.000113	0.006	No	8	0.0001866	0.0000341	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-13	0.0002	0.00014	0.006	No	8	0.0001852	0.00002732	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-15R	0.0004	0.0002	0.006	No	8	0.0002527	0.00008084	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-16	0.00095	0.0002	0.006	No	8	0.0004161	0.000309	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-18	0.0016	0.0002	0.006	No	8	0.0005691	0.0005747	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-19	0.0002	0.0000907	0.006	No	8	0.0001713	0.00004532	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-21	0.00116	0.0002	0.006	No	8	0.0003467	0.0003341	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-22	0.000333	0.00015	0.006	No	8	0.0002241	0.00006283	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-5	0.0002	0.00009	0.006	No	8	0.0001733	0.00004951	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-8	0.0002	0.0000945	0.006	No	8	0.0001868	0.0000373	87.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-10	0.6563	0.2122	5	No	8	0.4343	0.2095	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-11	0.586	0.1091	5	No	8	0.3475	0.225	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-12	1.633	0.8892	5	No	8	1.261	0.3509	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-13	1.005	0.5371	5	No	8	0.7711	0.2208	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-14	1.135	0.2784	5	No	8	0.7068	0.4041	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-15R	1.72	0.7662	5	No	8	1.232	0.4957	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-16	4.393	3.019	5	No	8	3.706	0.6482	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-17	1.776	0.7191	5	No	8	1.247	0.4984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-18	2.012	1.168	5	No	8	1.59	0.3983	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-19	1.226	0.2377	5	No	8	0.7316	0.466	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	15.7	1.49	5	No	8	13.27	4.875	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-21	0.9727	0.1133	5	No	8	0.543	0.4054	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-22	0.7609	0.2923	5	No	8	0.5266	0.2211	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-4	1.024	0.351	5	No	8	0.6878	0.3177	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-5	1.257	0.392	5	No	8	0.8246	0.4081	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-6	0.6316	0.3009	5	No	8	0.4663	0.156	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-7	0.8123	0.3574	5	No	8	0.5849	0.2146	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-8	0.6448	0.09974	5	No	8	0.3723	0.2571	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-9	1.037	0.2531	5	No	8	0.6303	0.3677	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-10	0.125	0.04	4	No	8	0.0923	0.03713	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-11	0.125	0.04	4	No	8	0.09284	0.0365	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-12	0.08041	0.04475	4	No	8	0.08599	0.03529	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-13	0.125	0.05	4	No	8	0.09459	0.03177	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-14	0.1358	0.08364	4	No	8	0.1097	0.02459	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-15R	0.1079	0.0798	4	No	8	0.09388	0.01328	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-16	0.1526	0.1008	4	No	8	0.1267	0.02447	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-17	0.2249	0.1528	4	No	8	0.1889	0.03401	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-18	0.125	0.0551	4	No	8	0.08121	0.02833	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-19	0.125	0.05	4	No	8	0.0809	0.03227	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-20	0.0753	0.05269	4	No	8	0.08681	0.03297	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-21	0.125	0.07	4	No	8	0.0957	0.02506	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-22	0.1053	0.06099	4	No	8	0.08316	0.02092	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-4	0.125	0.0506	4	No	8	0.1038	0.03068	62.5	None	No	0.004	NP (NDs)

CLD ¦ w9 !Φ

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

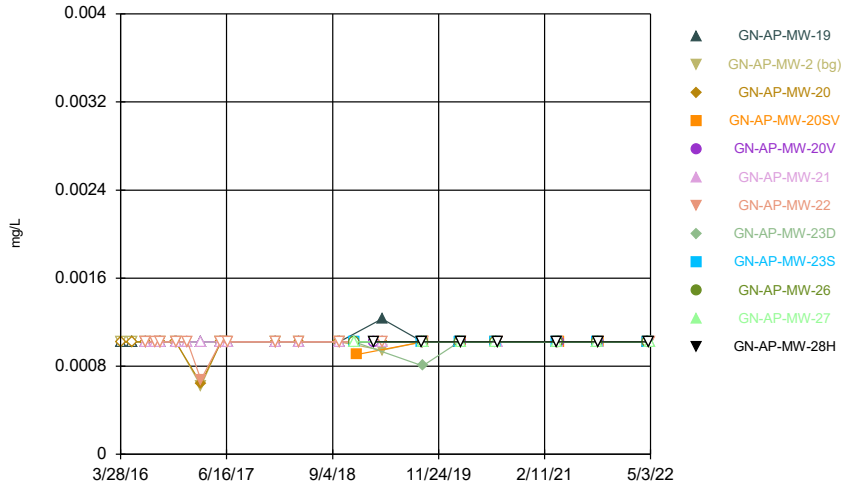
Time Series



Constituent: Antimony Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

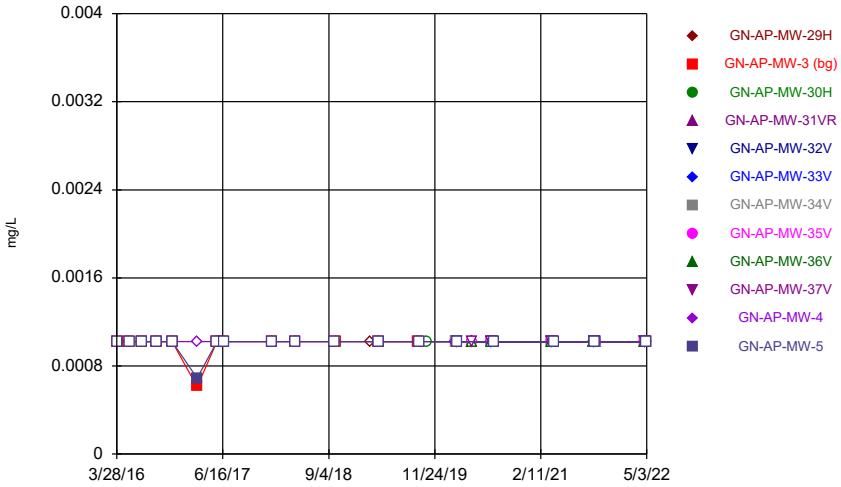
Time Series



Constituent: Antimony Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

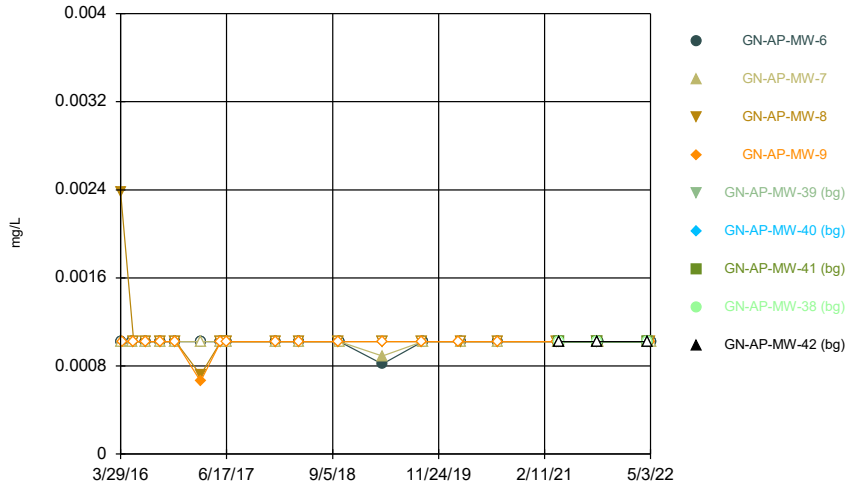
Time Series



Constituent: Antimony Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

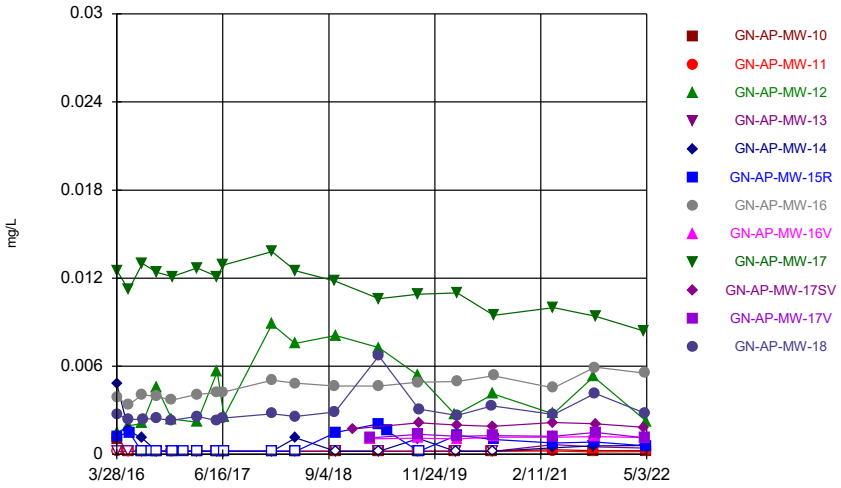
Time Series



Constituent: Antimony Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

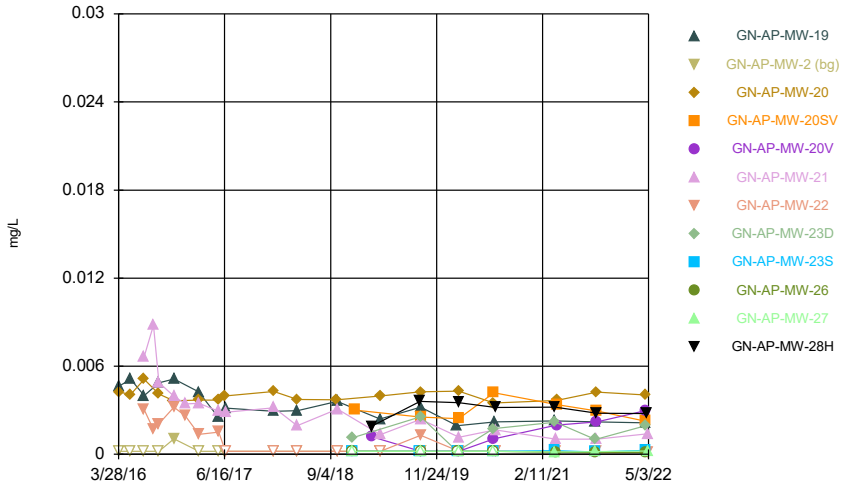
Time Series



Constituent: Arsenic Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

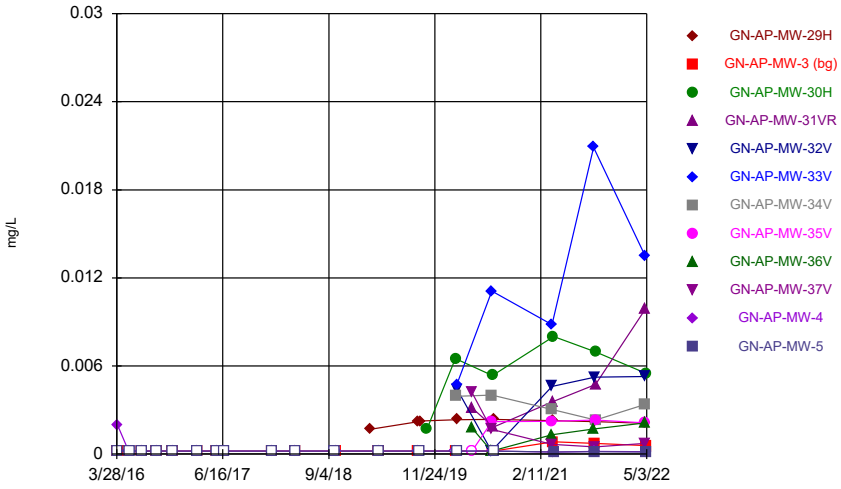
Time Series



Constituent: Arsenic Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

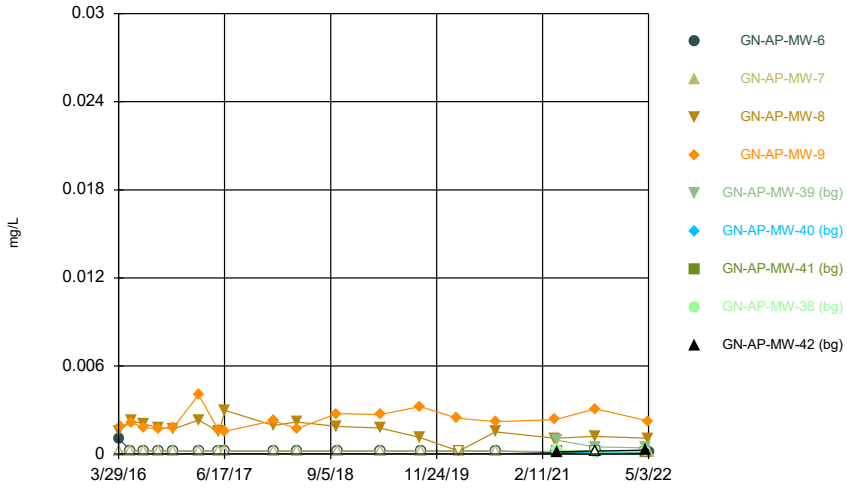
Time Series



Constituent: Arsenic Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

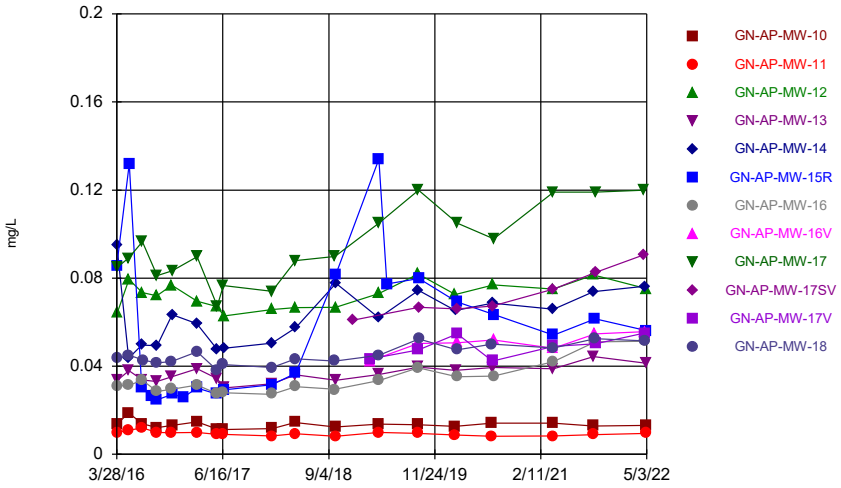
Time Series



Constituent: Arsenic Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

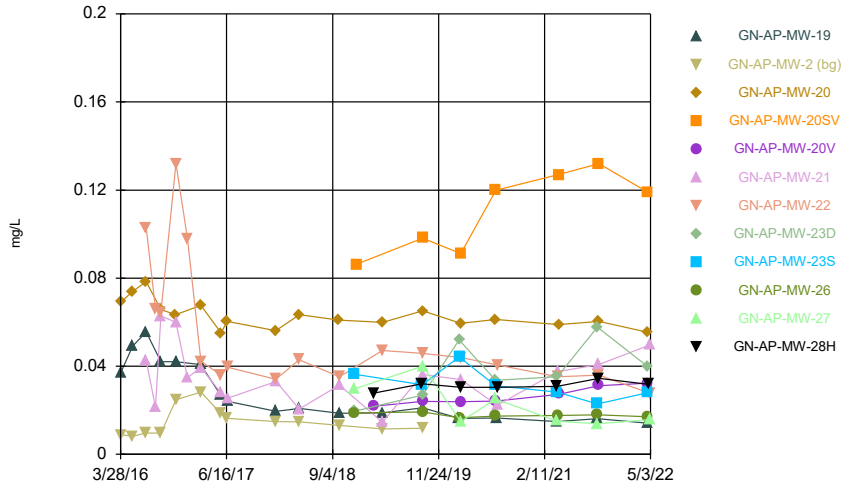


Constituent: Barium Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

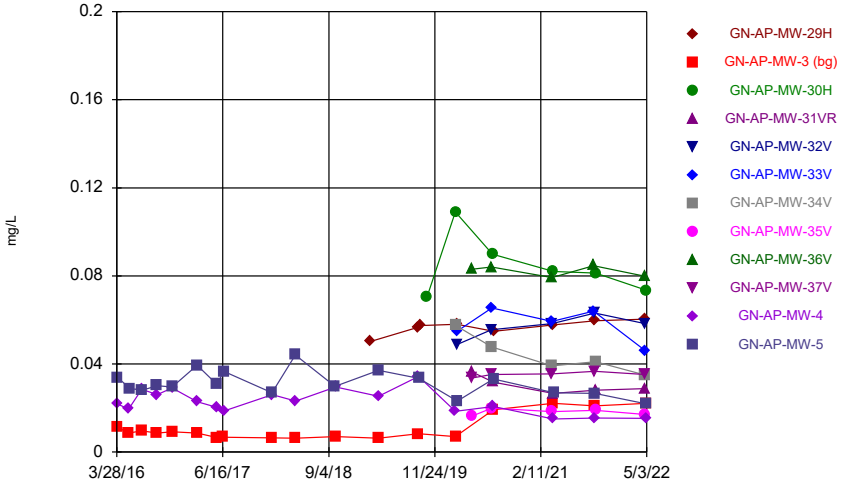


Constituent: Barium Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

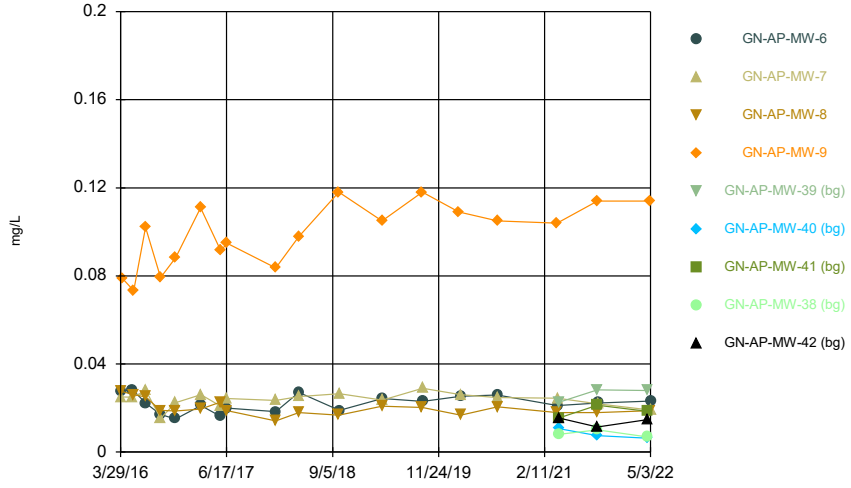


Constituent: Barium Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

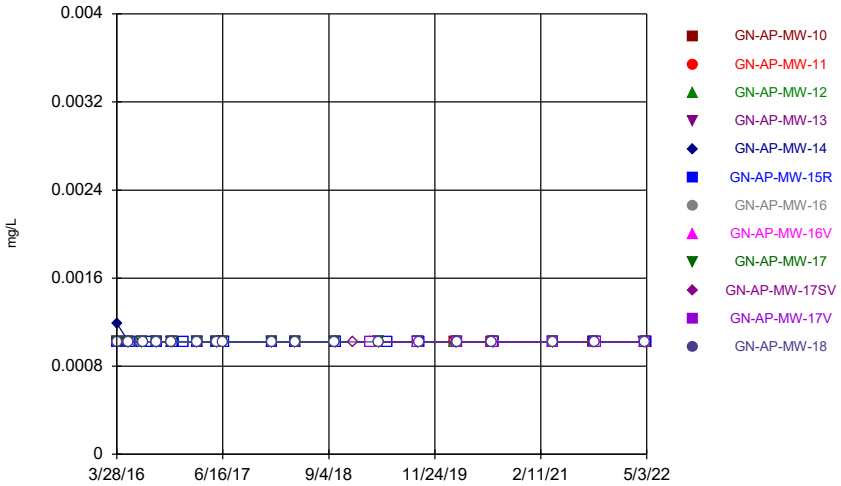


Constituent: Barium Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

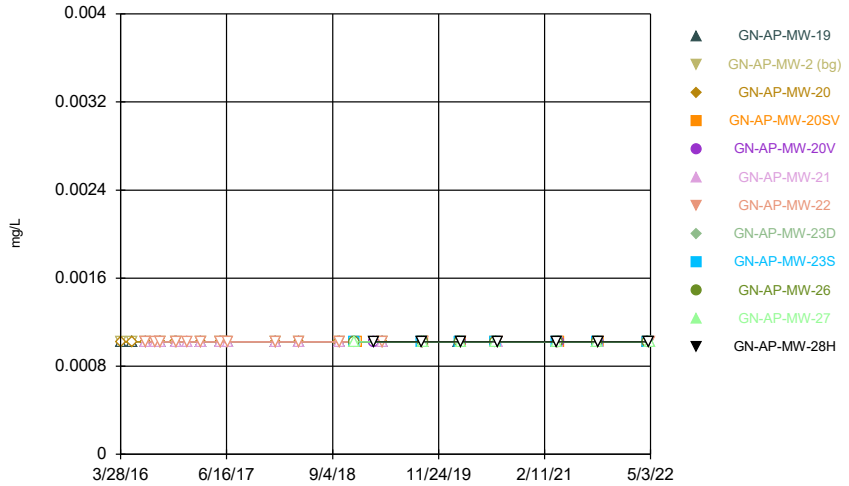
Time Series



Constituent: Beryllium Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

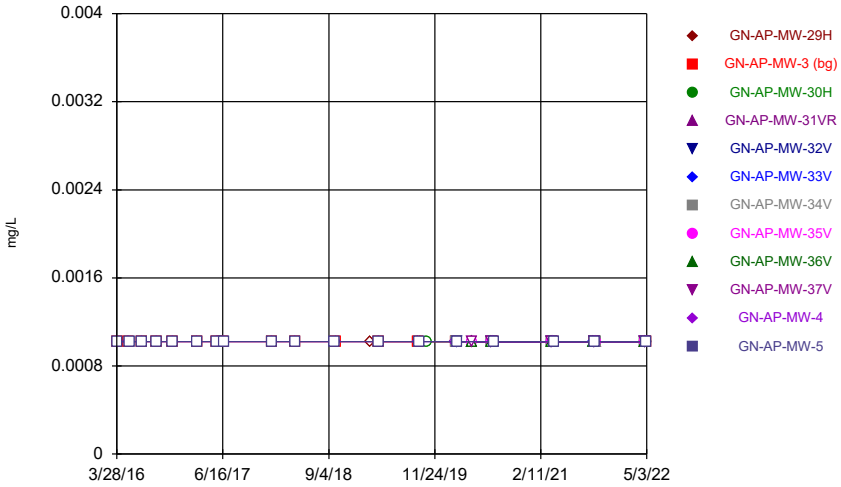
Time Series



Constituent: Beryllium Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

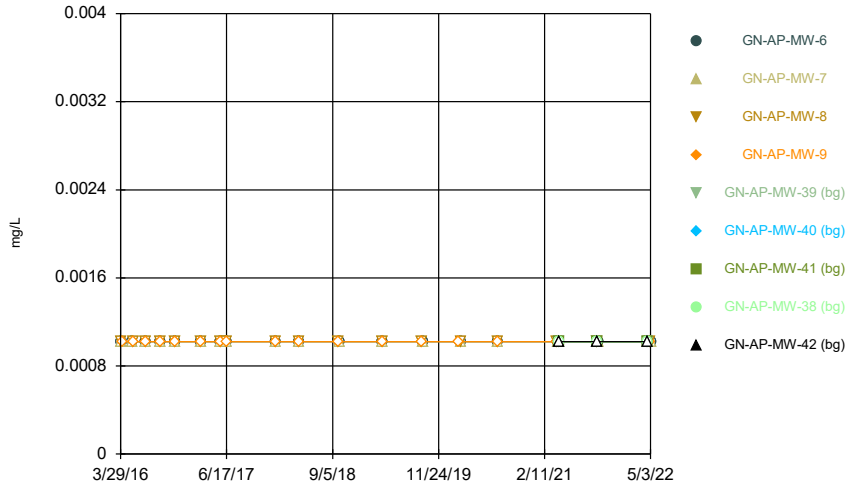
Time Series



Constituent: Beryllium Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

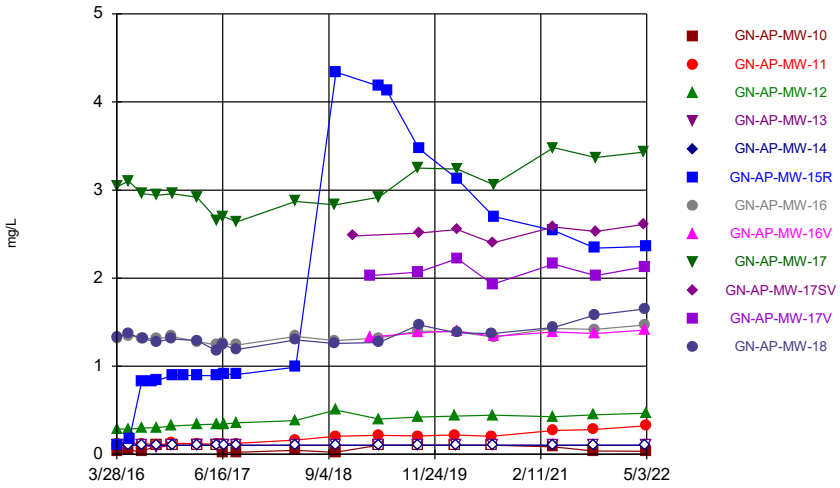
Time Series



Constituent: Beryllium Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

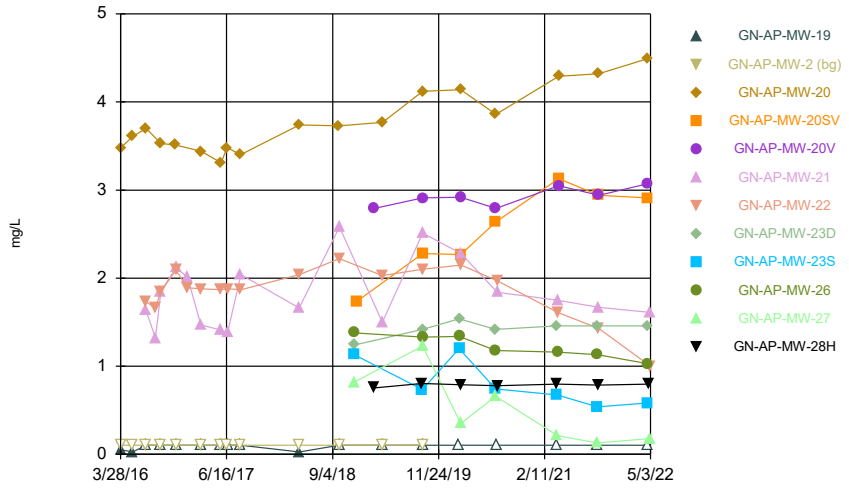
Time Series



Constituent: Boron Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

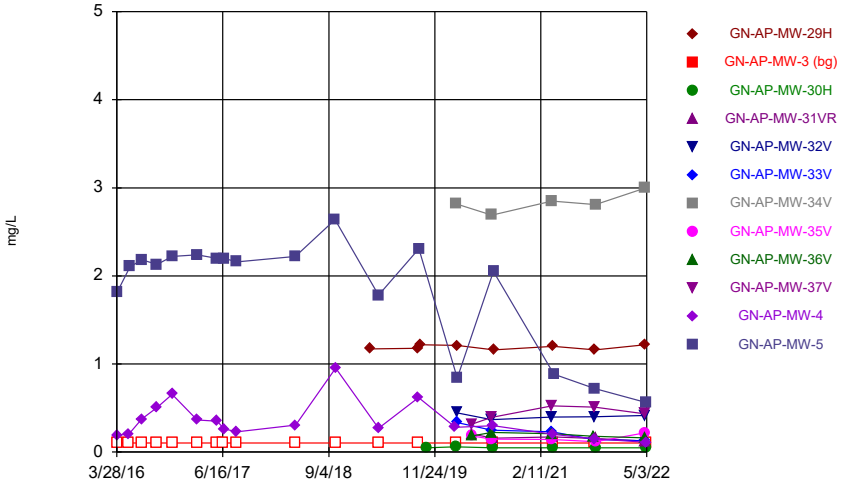
Time Series



Constituent: Boron Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

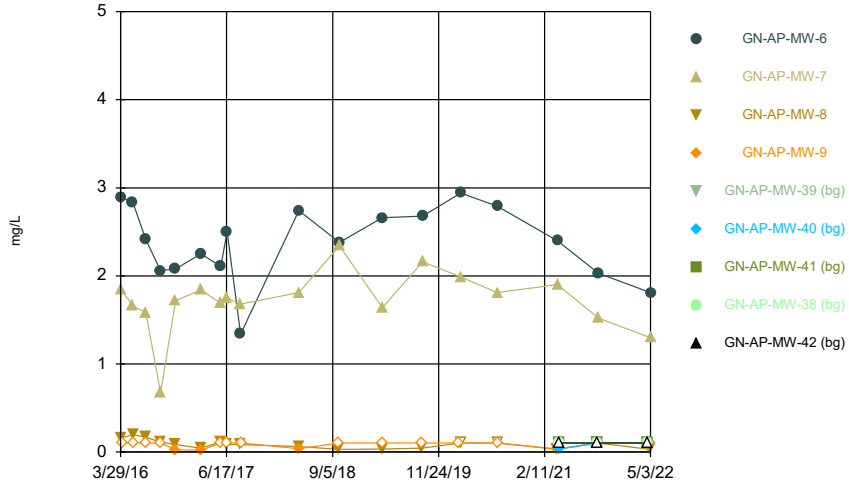
Time Series



Constituent: Boron Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

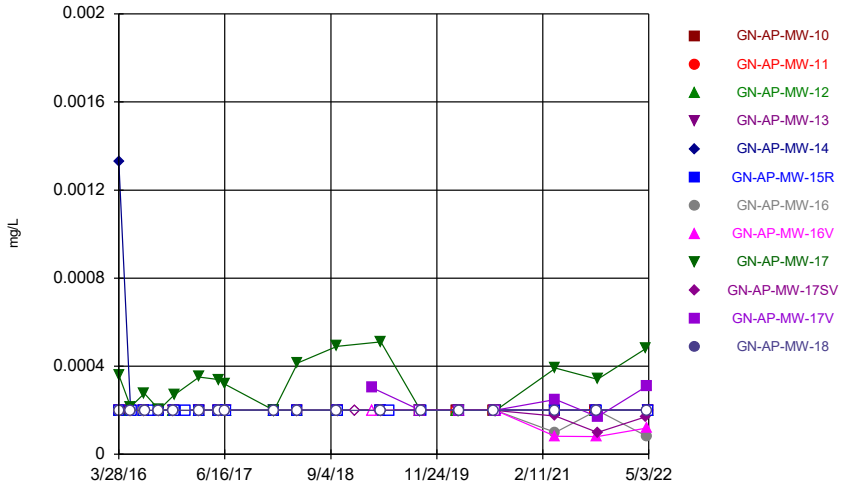
Time Series



Constituent: Boron Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

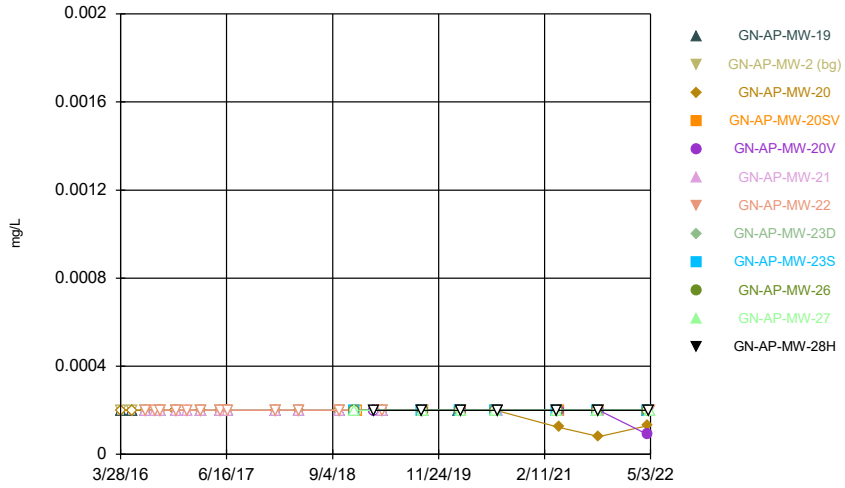
Time Series



Constituent: Cadmium Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

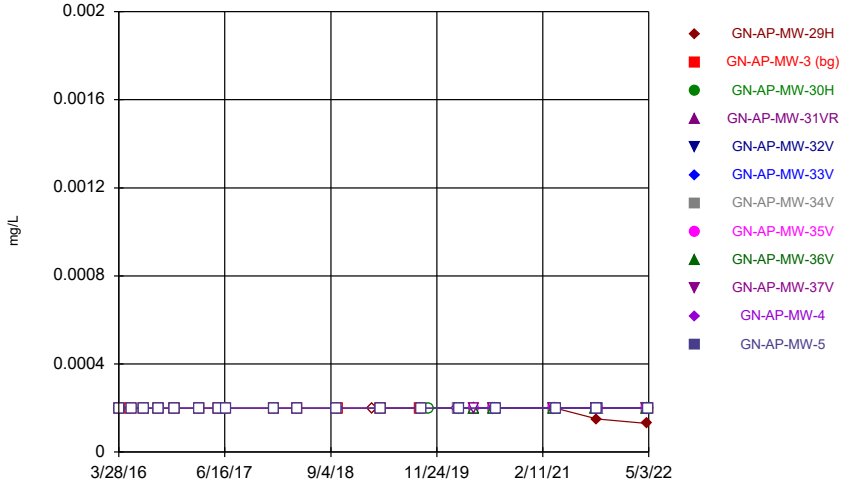
Time Series



Constituent: Cadmium Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

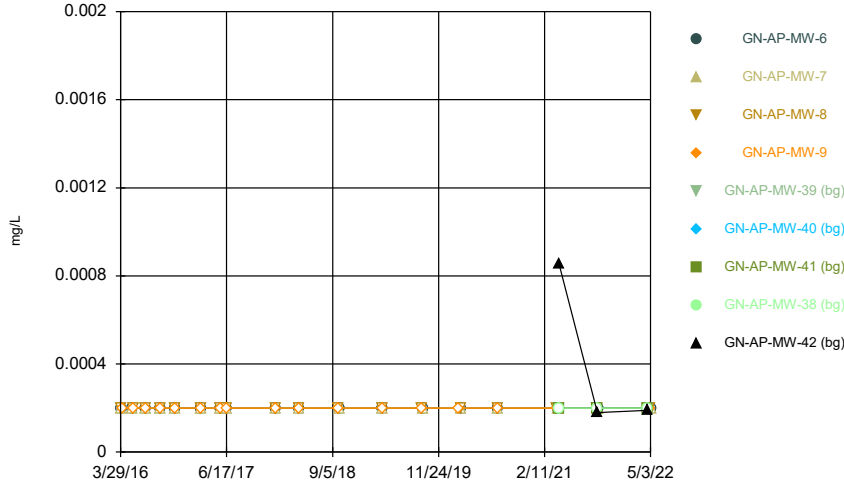
Time Series



Constituent: Cadmium Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

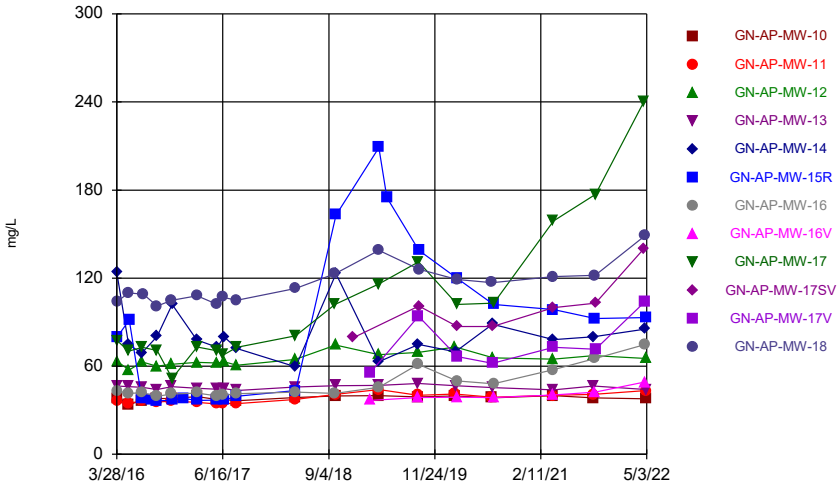
Time Series



Constituent: Cadmium Analysis Run 7/15/2022 2:23 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

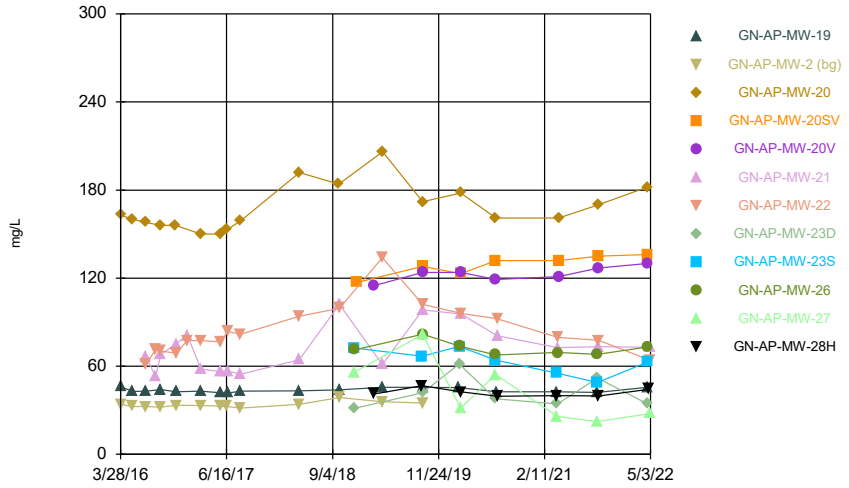


Constituent: Calcium Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series



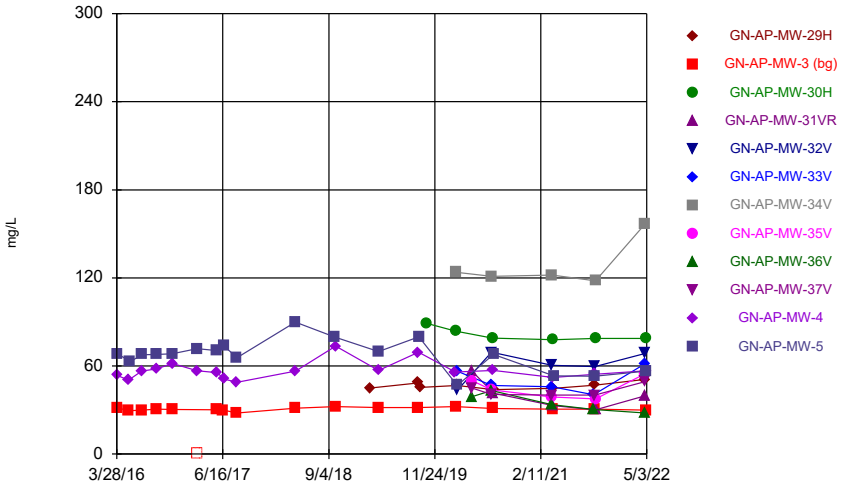
Constituent: Calcium Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

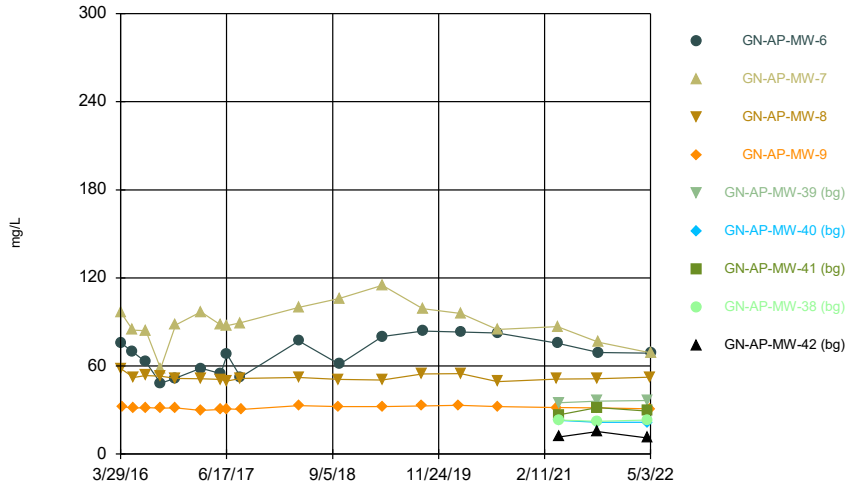


Constituent: Calcium Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

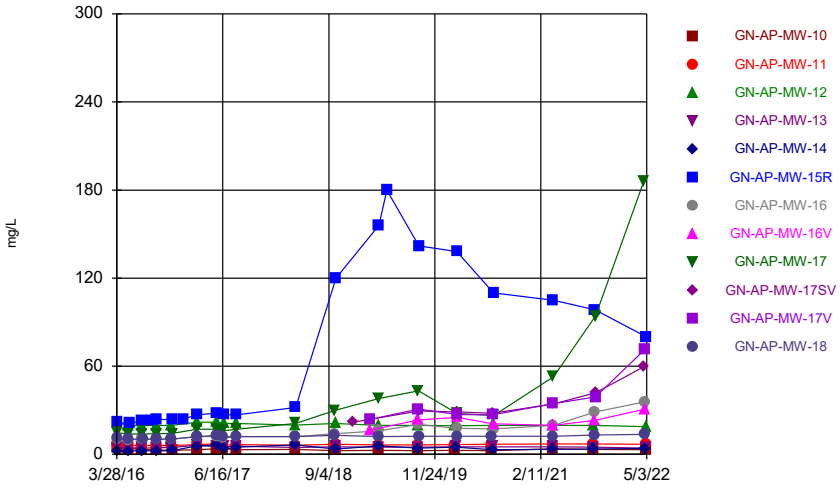


Constituent: Calcium Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series



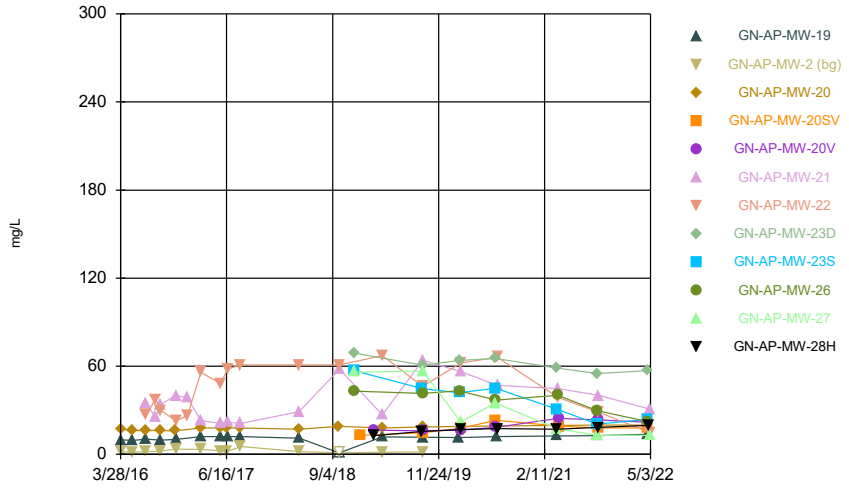
Constituent: Chloride Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

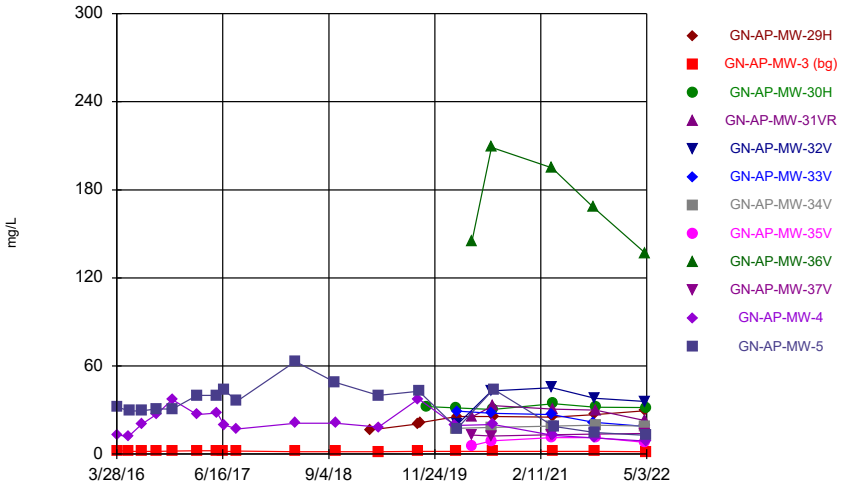


Constituent: Chloride Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

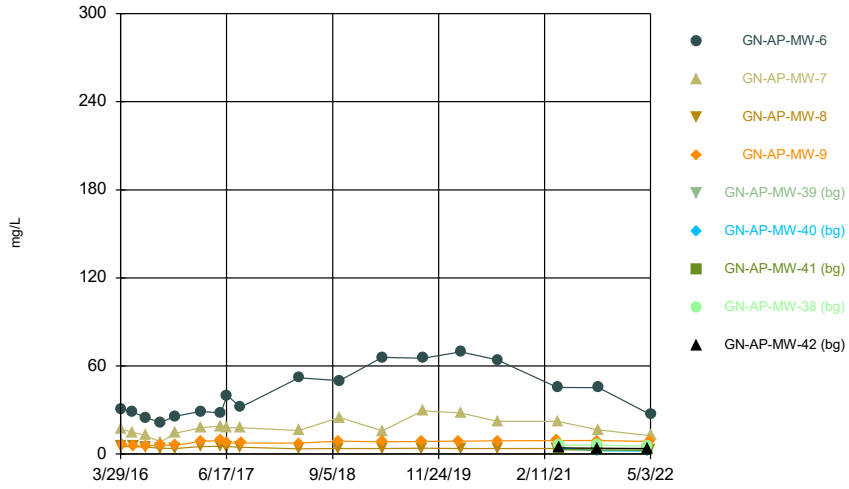


Constituent: Chloride Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

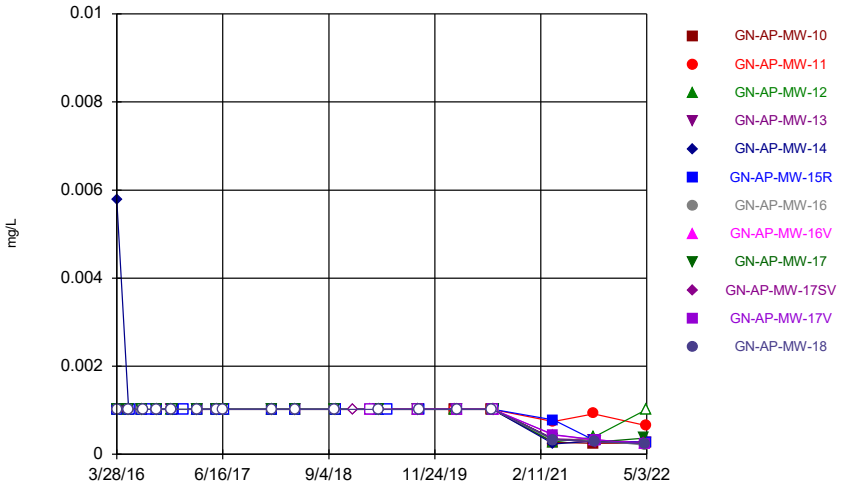


Constituent: Chloride Analysis Run 7/15/2022 2:23 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

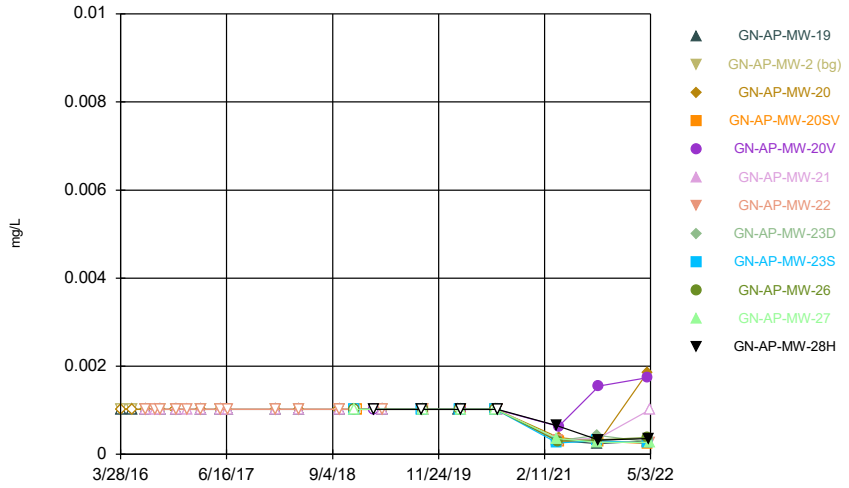
Time Series



Constituent: Chromium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

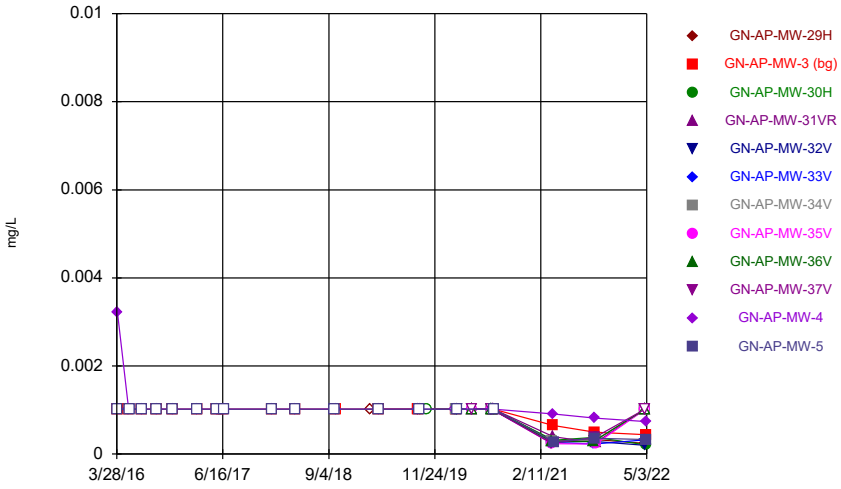
Time Series



Constituent: Chromium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

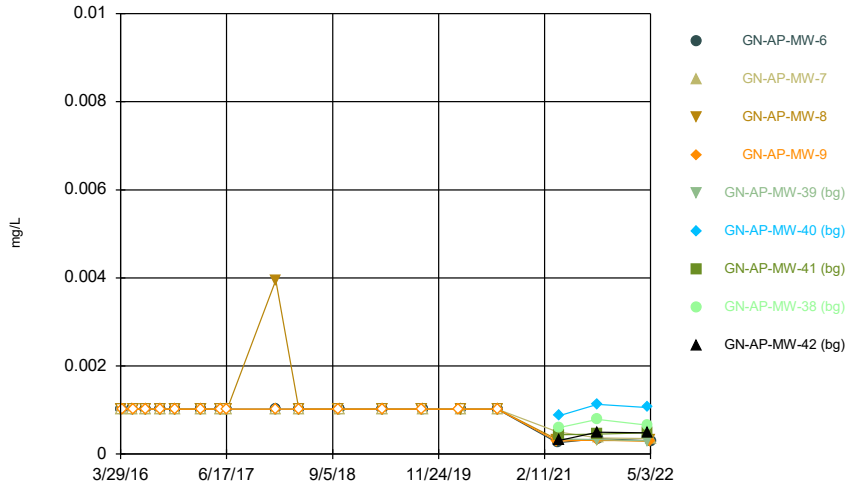
Time Series



Constituent: Chromium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

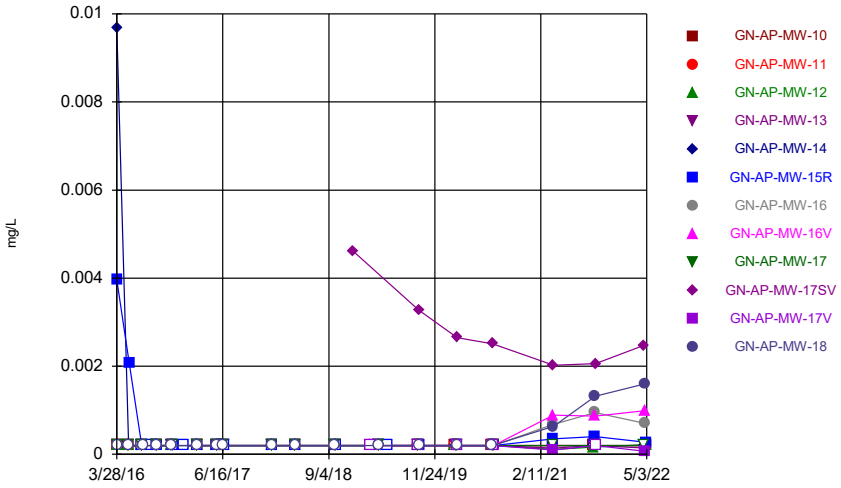
Time Series



Constituent: Chromium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

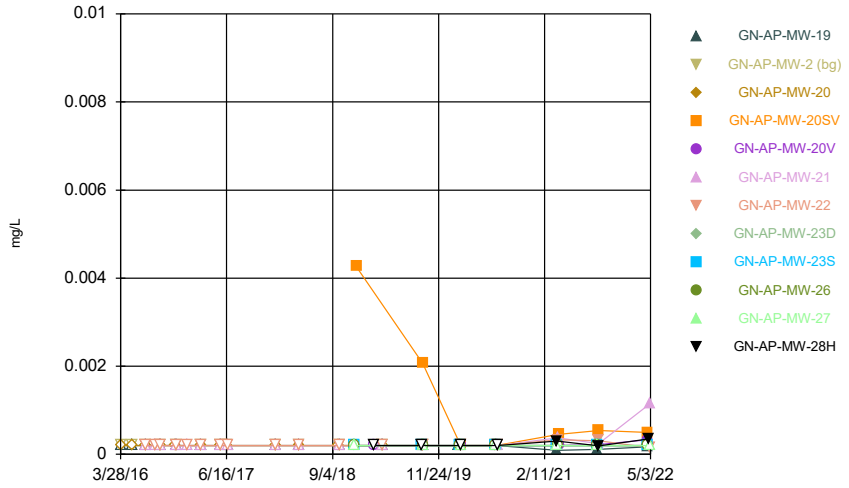
Time Series



Constituent: Cobalt Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

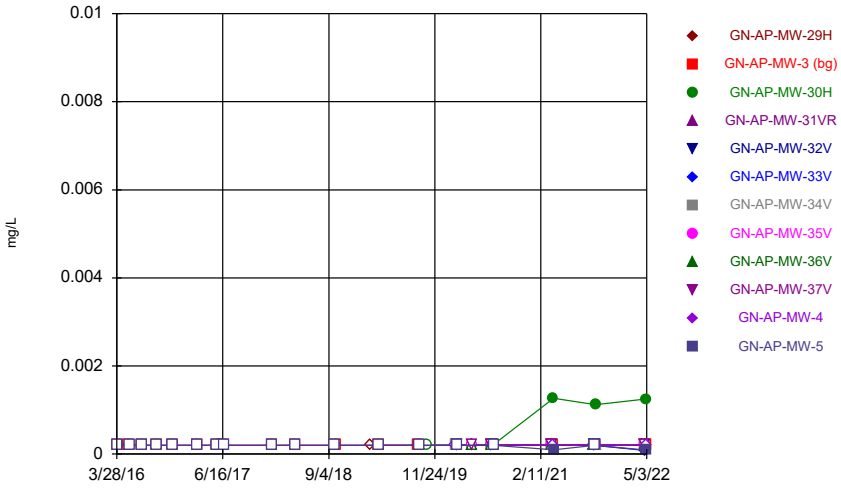
Time Series



Constituent: Cobalt Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

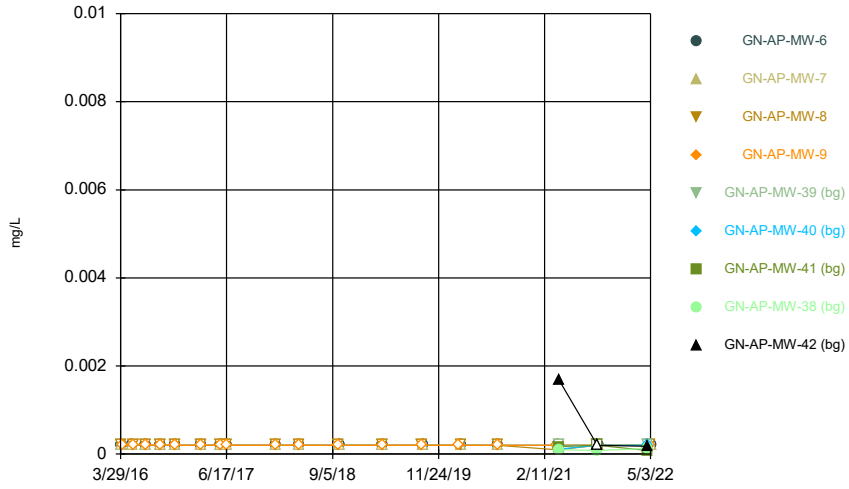
Time Series



Constituent: Cobalt Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

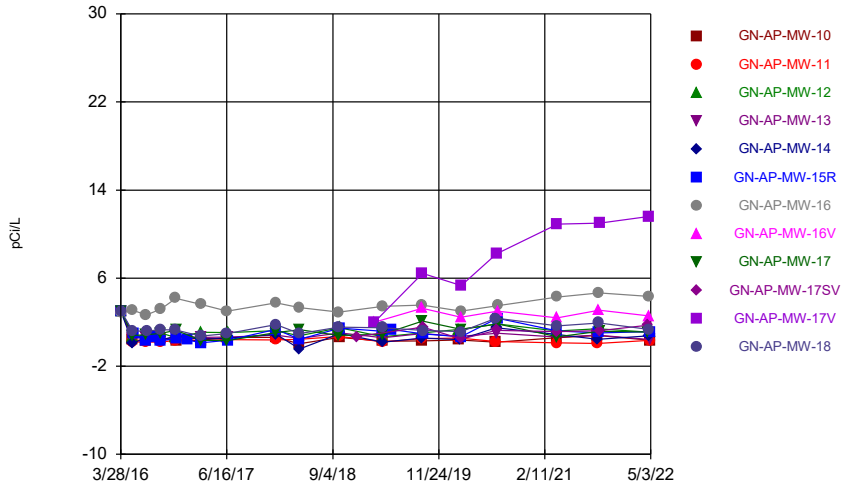
Time Series



Constituent: Cobalt Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

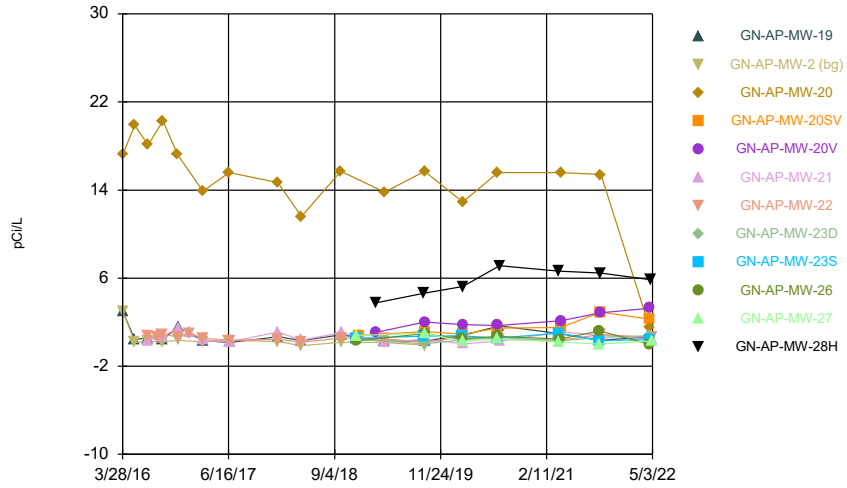


Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

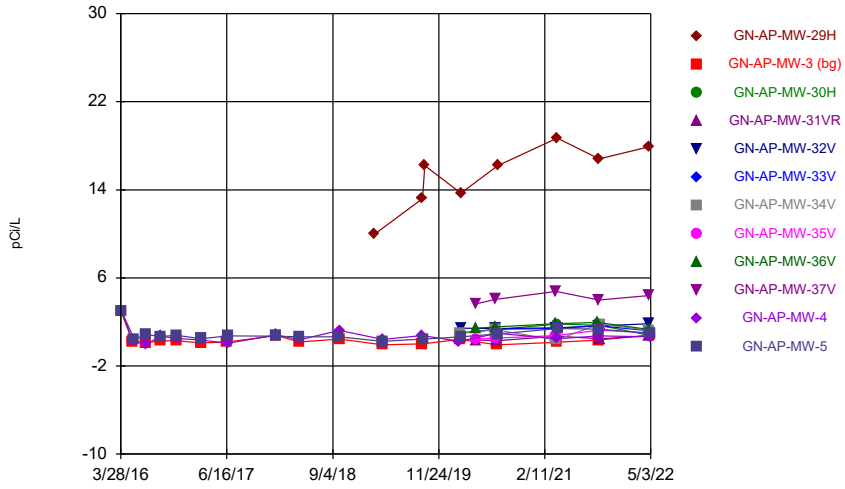


Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

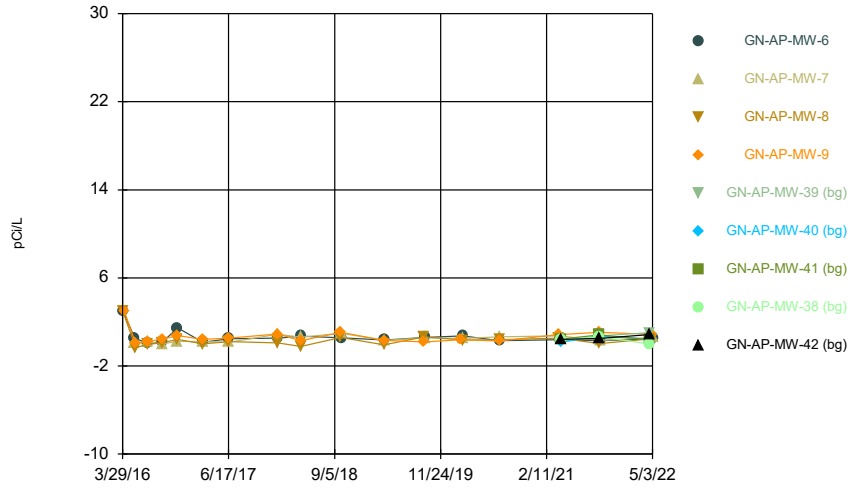


Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

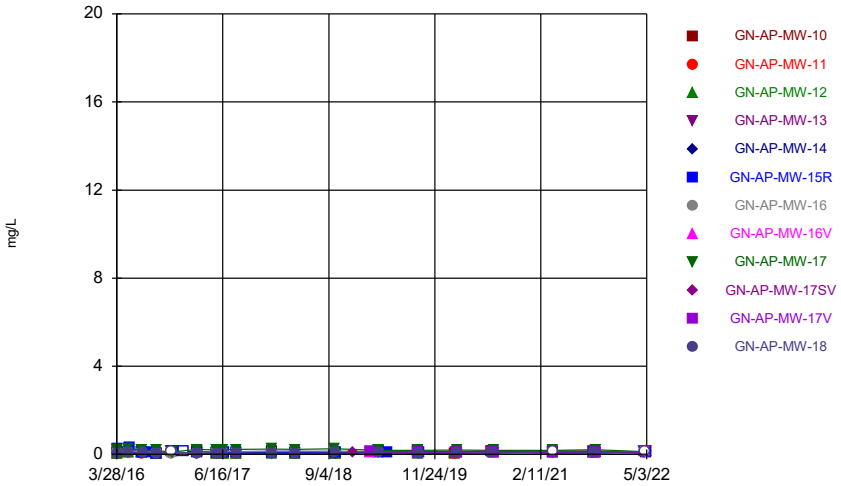


Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

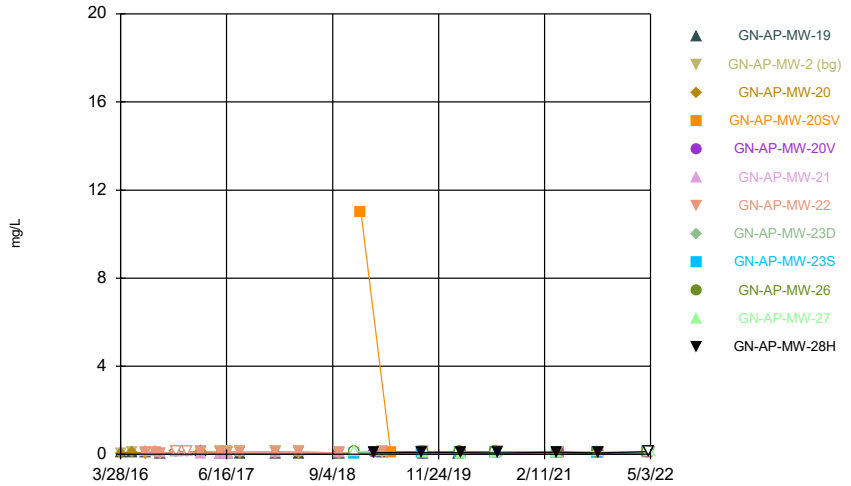
Time Series



Constituent: Fluoride Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

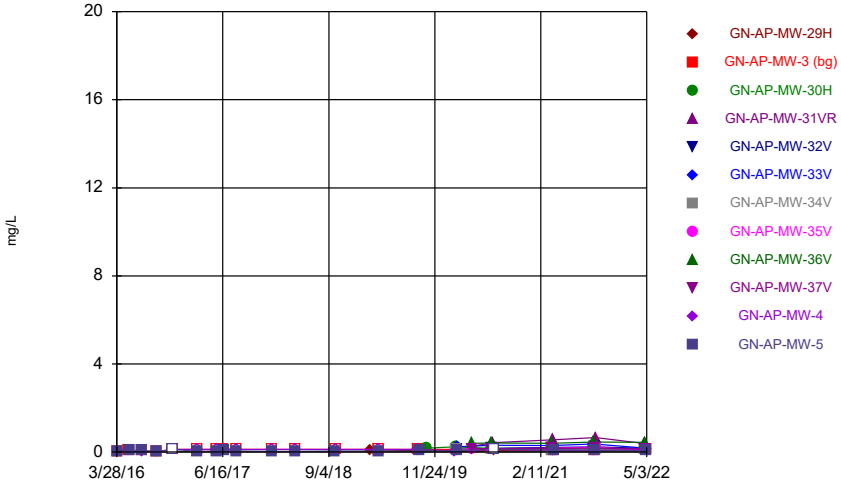
Time Series



Constituent: Fluoride Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

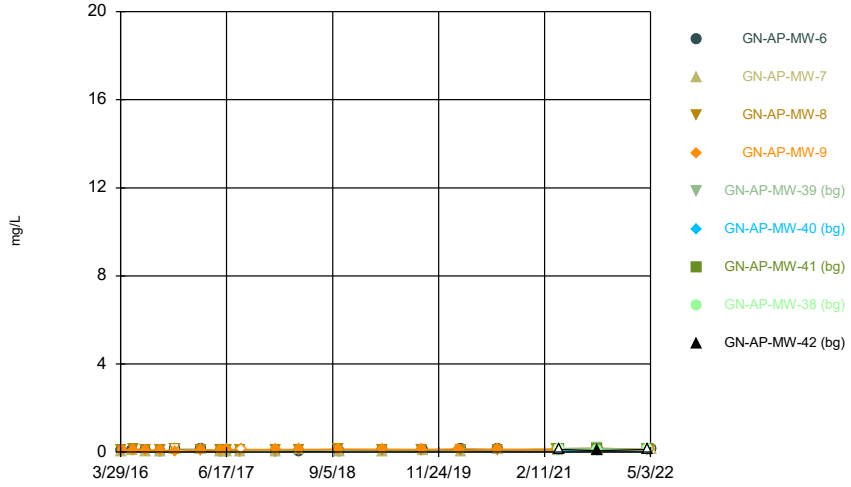
Time Series



Constituent: Fluoride Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

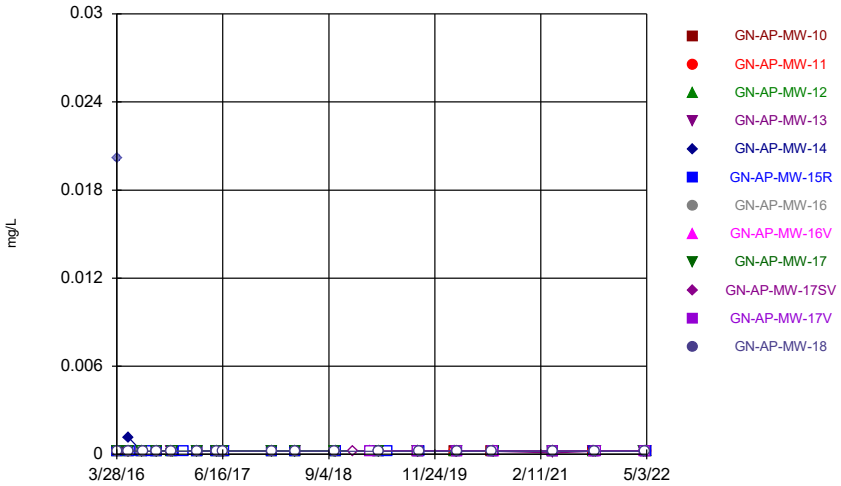
Time Series



Constituent: Fluoride Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

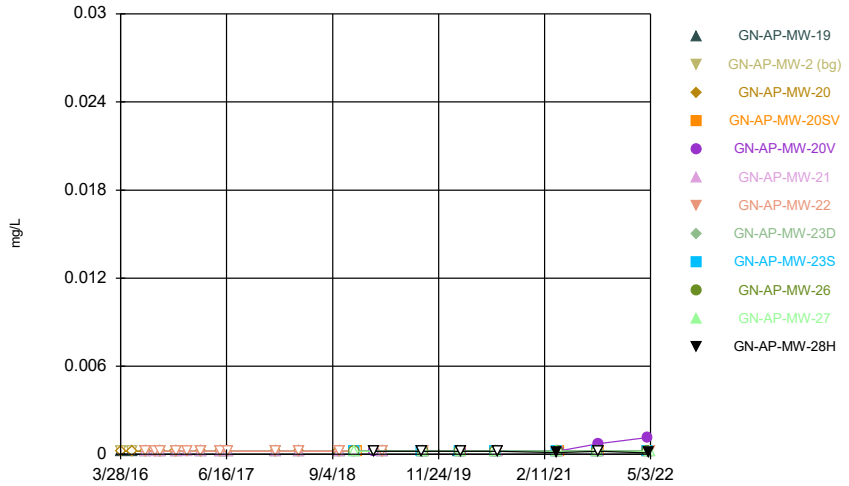
Time Series



Constituent: Lead Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

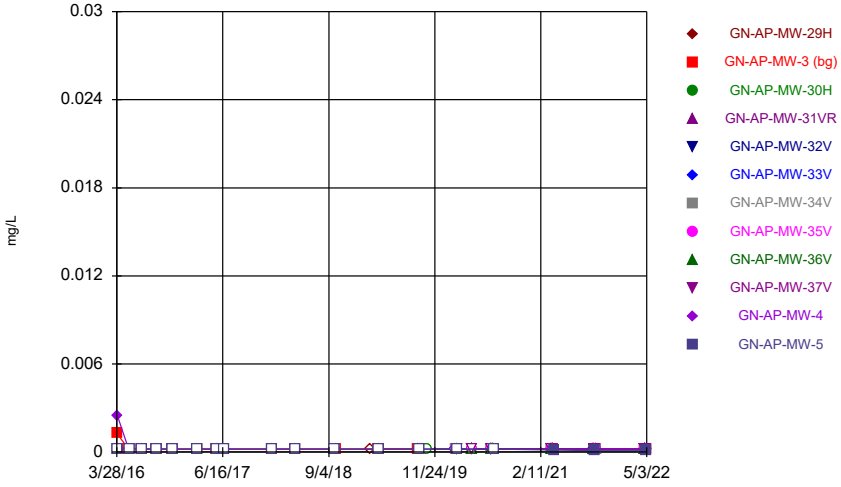
Time Series



Constituent: Lead Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

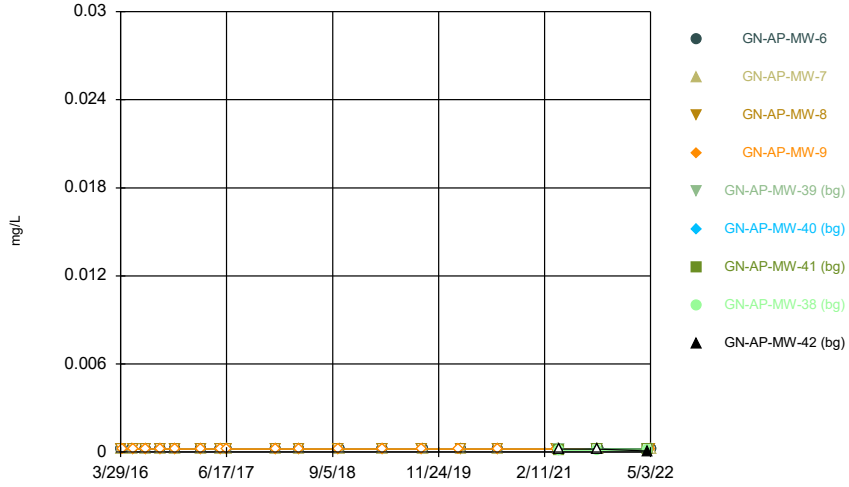
Time Series



Constituent: Lead Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

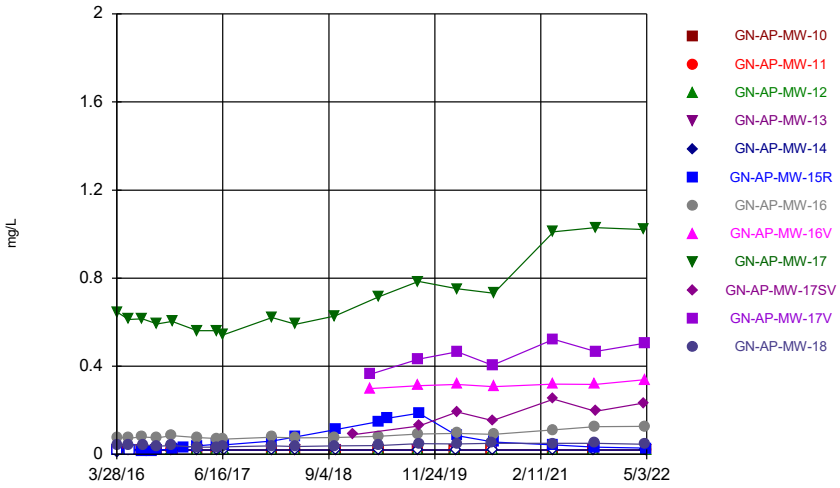
Time Series



Constituent: Lead Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

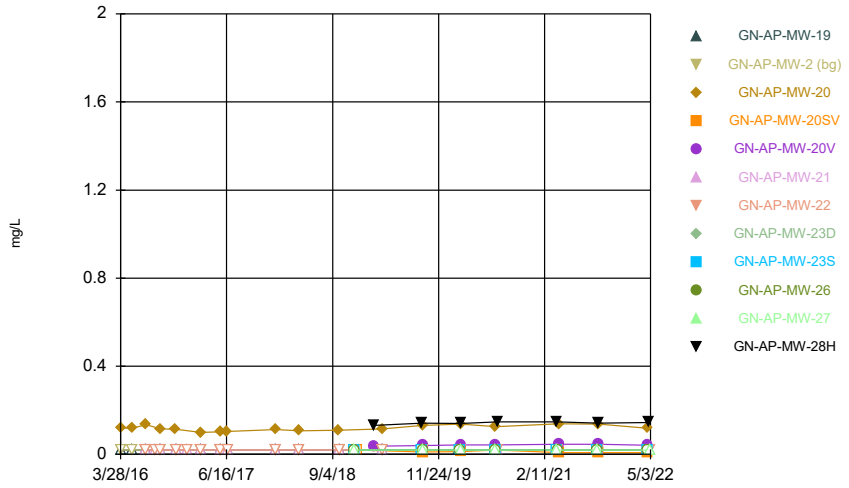
Time Series



Constituent: Lithium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

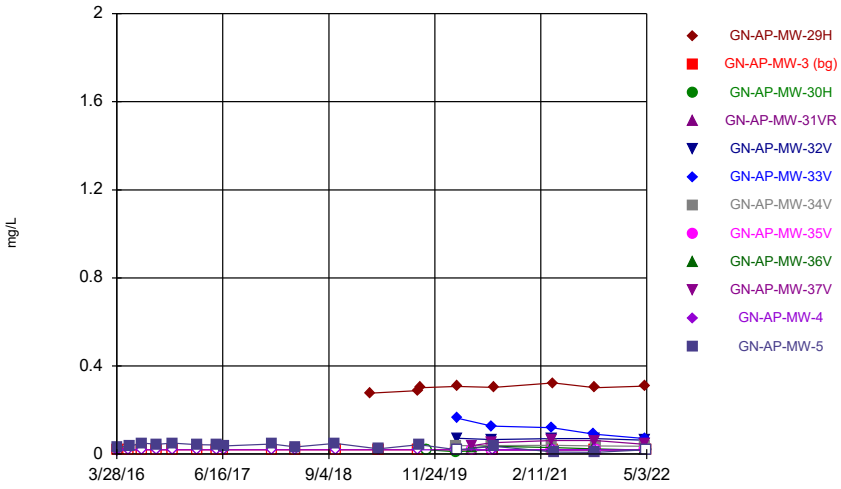
Time Series



Constituent: Lithium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

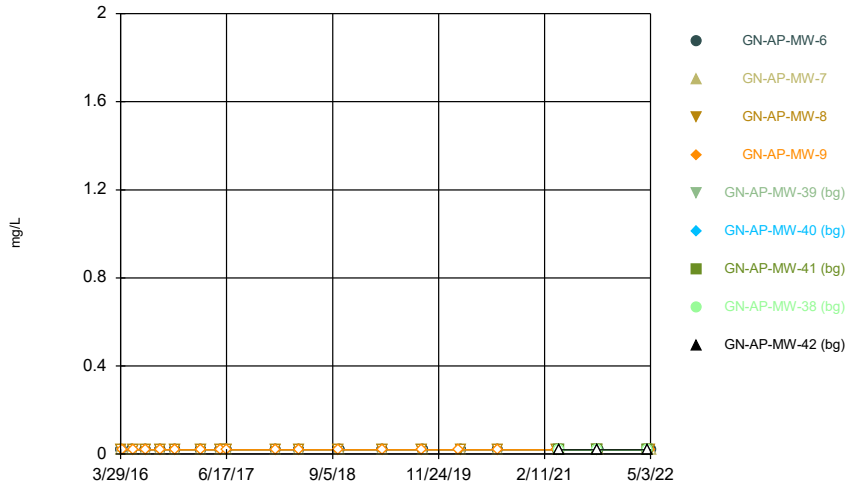
Time Series



Constituent: Lithium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

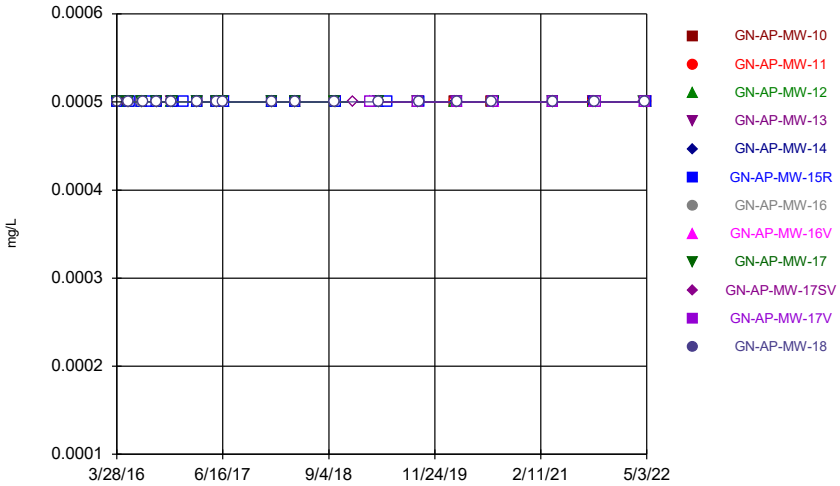
Time Series



Constituent: Lithium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

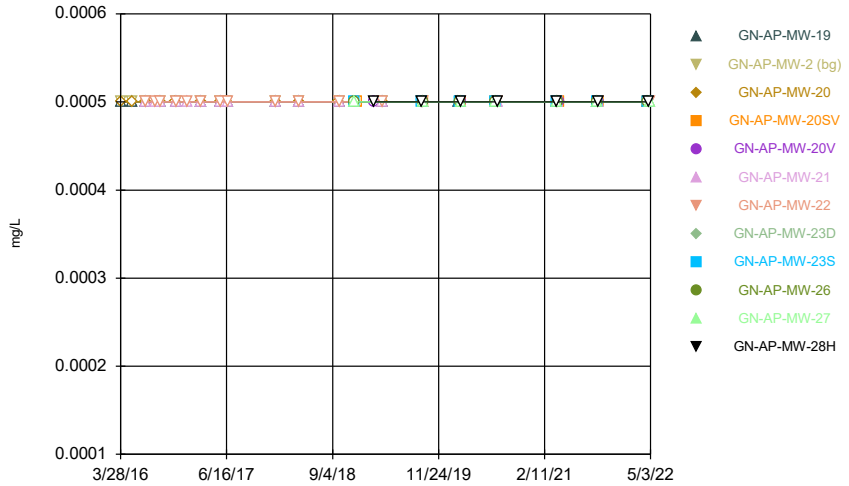
Time Series



Constituent: Mercury Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

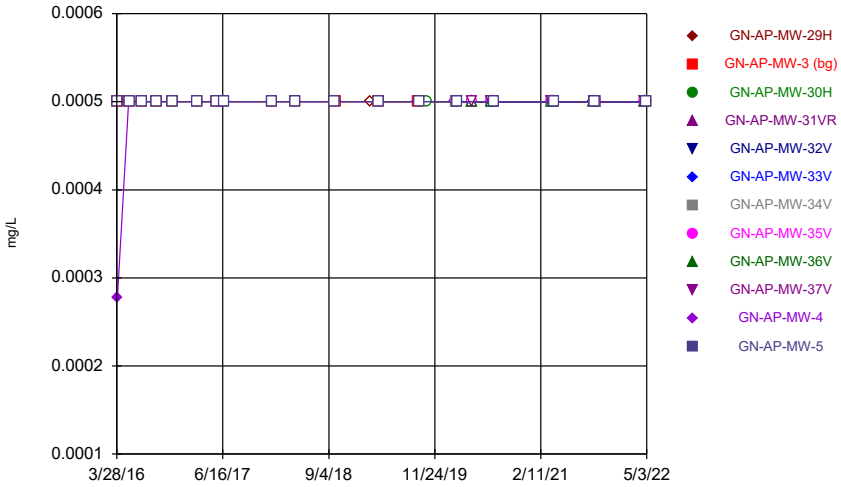
Time Series



Constituent: Mercury Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

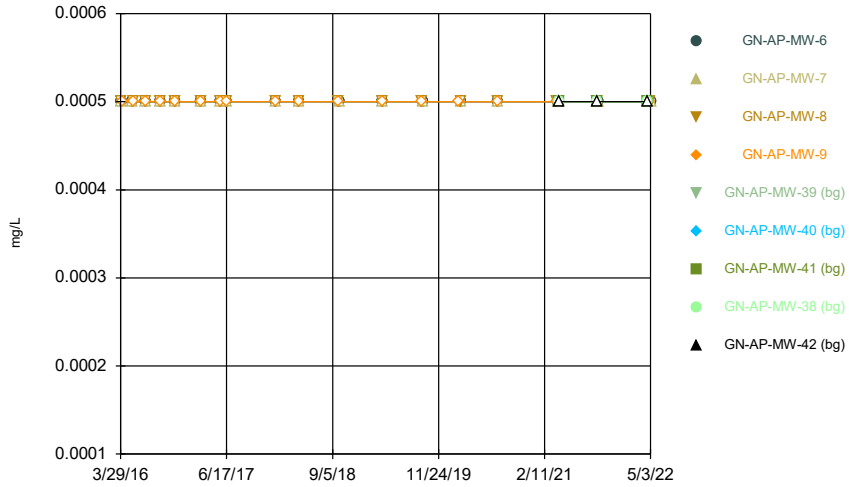
Time Series



Constituent: Mercury Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

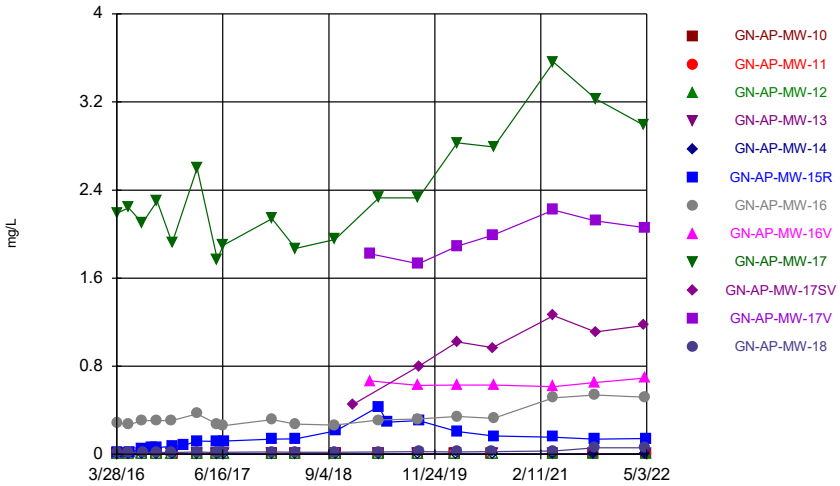
Time Series



Constituent: Mercury Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

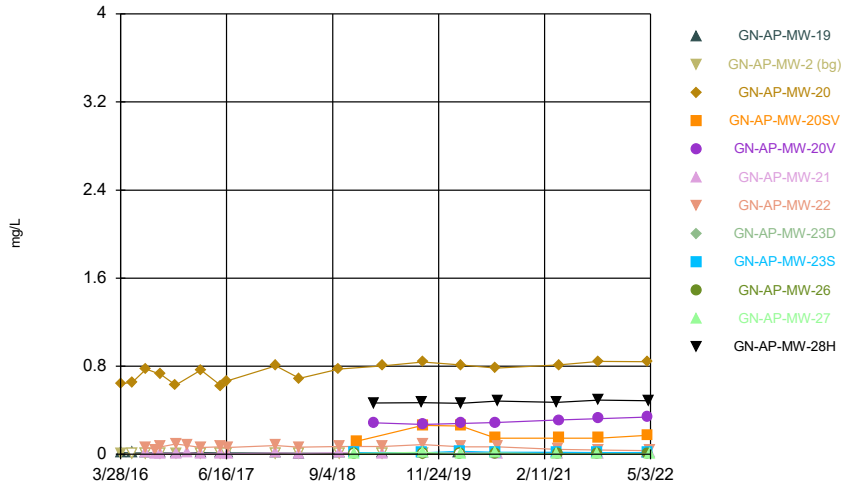
Time Series



Constituent: Molybdenum Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

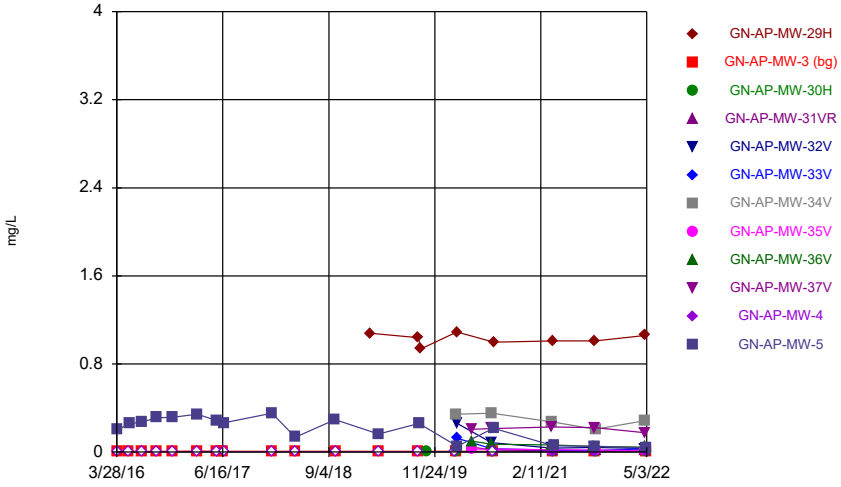
Time Series



Constituent: Molybdenum Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

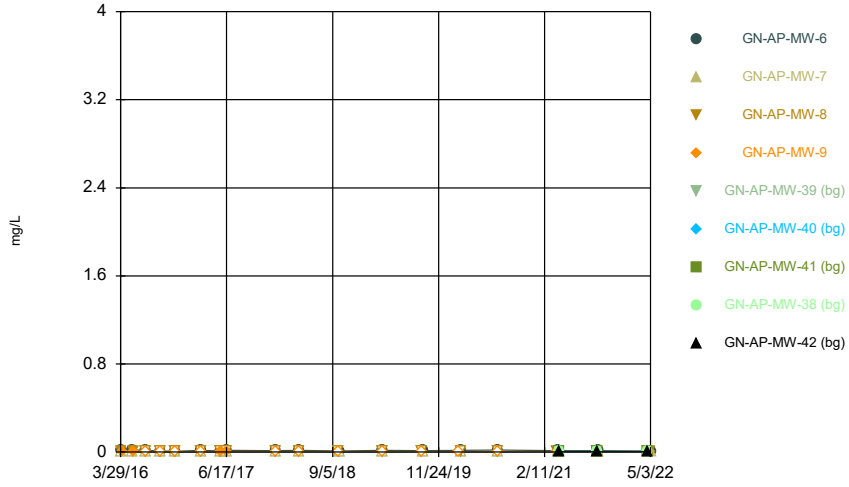
Time Series



Constituent: Molybdenum Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

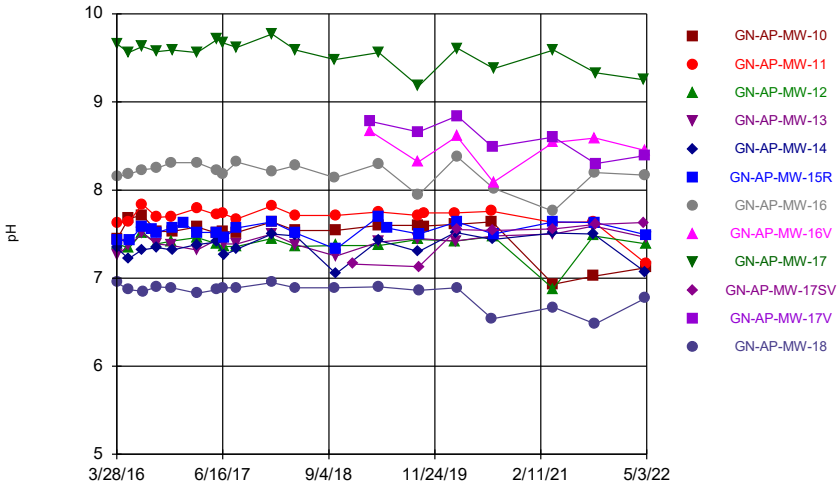
Time Series



Constituent: Molybdenum Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

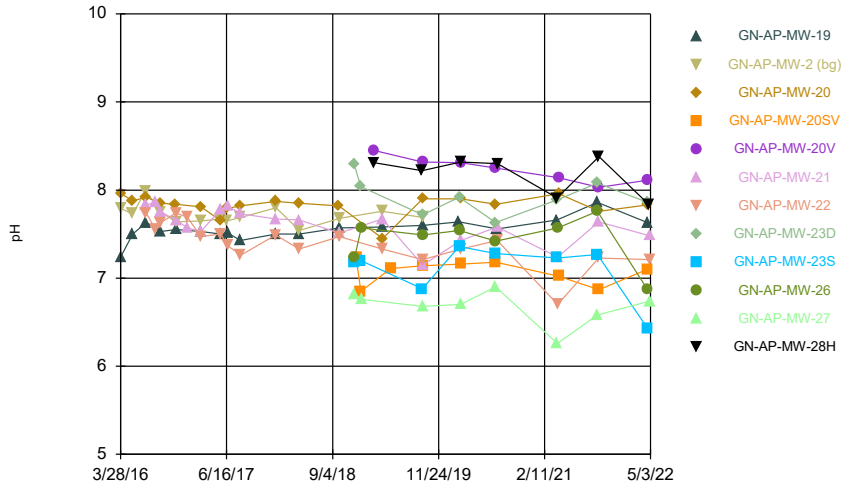


Constituent: pH Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

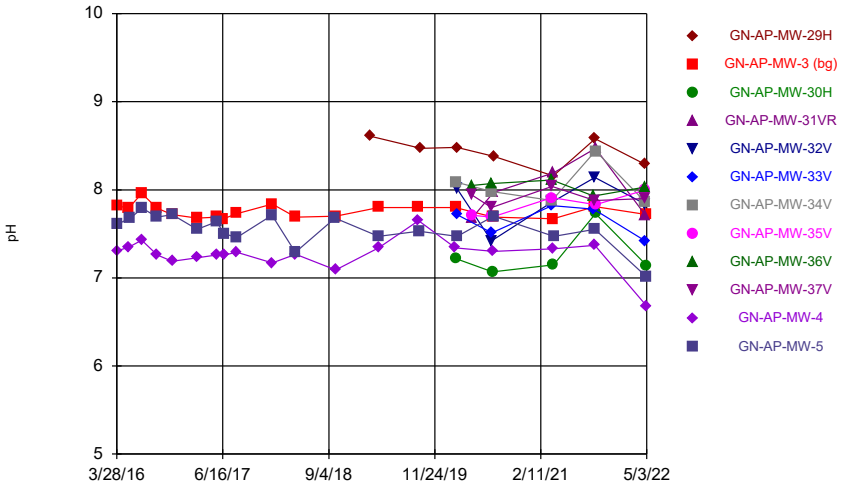


Constituent: pH Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

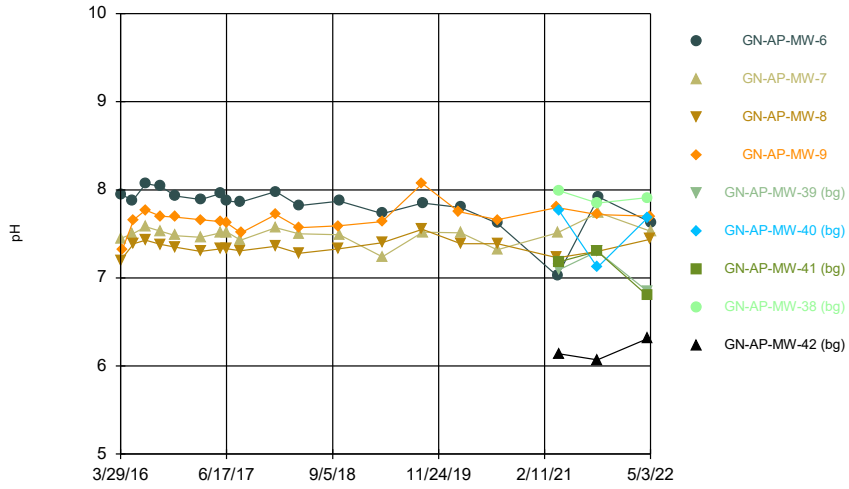


Constituent: pH Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

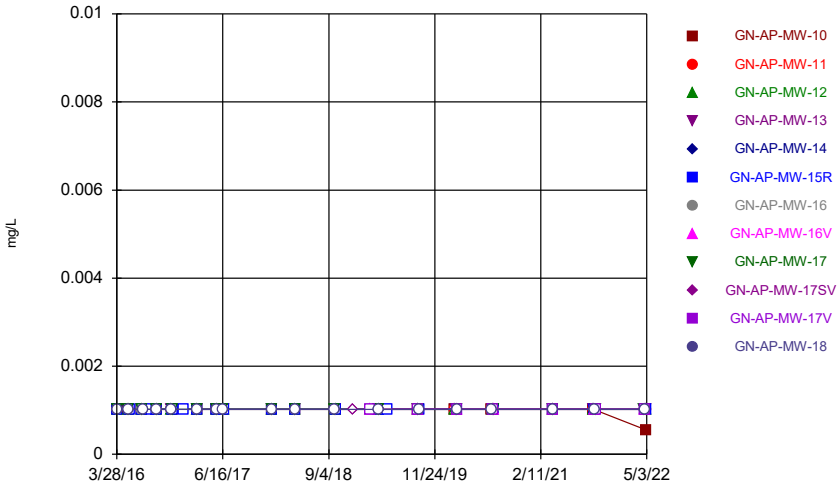


Constituent: pH Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

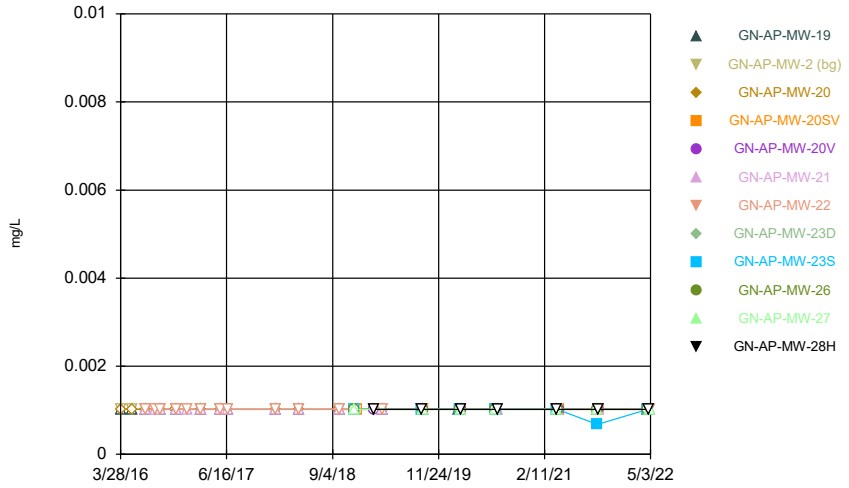
Time Series



Constituent: Selenium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

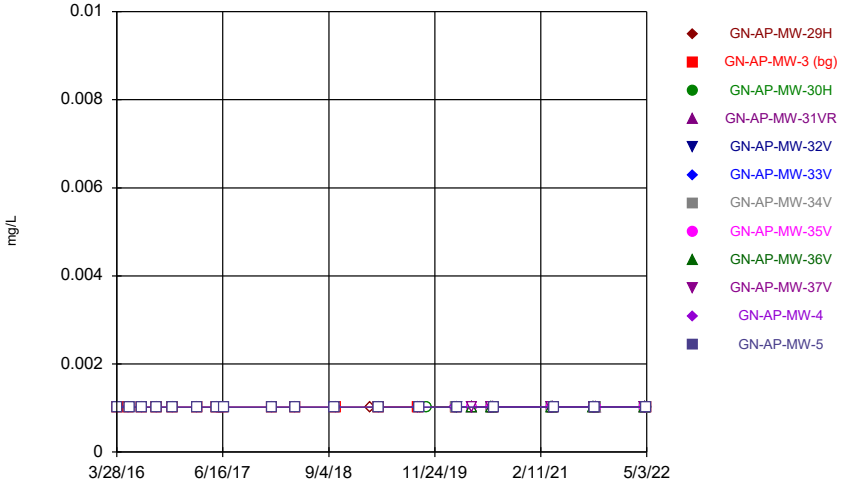
Time Series



Constituent: Selenium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

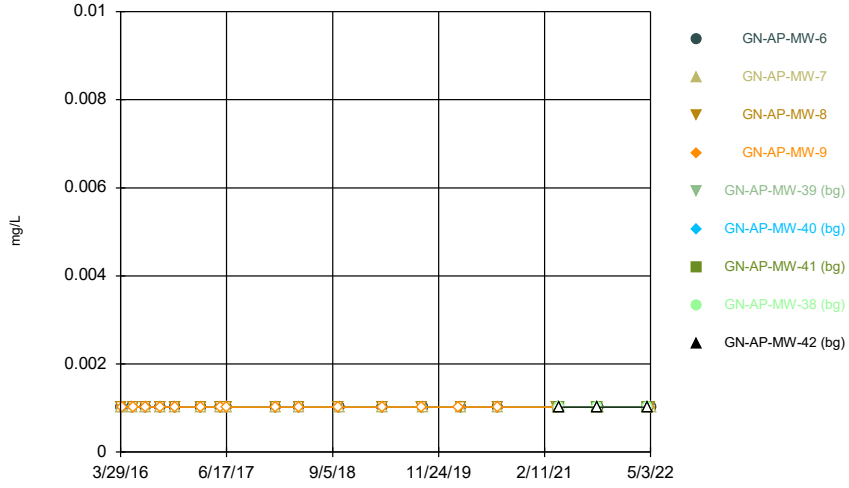
Time Series



Constituent: Selenium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

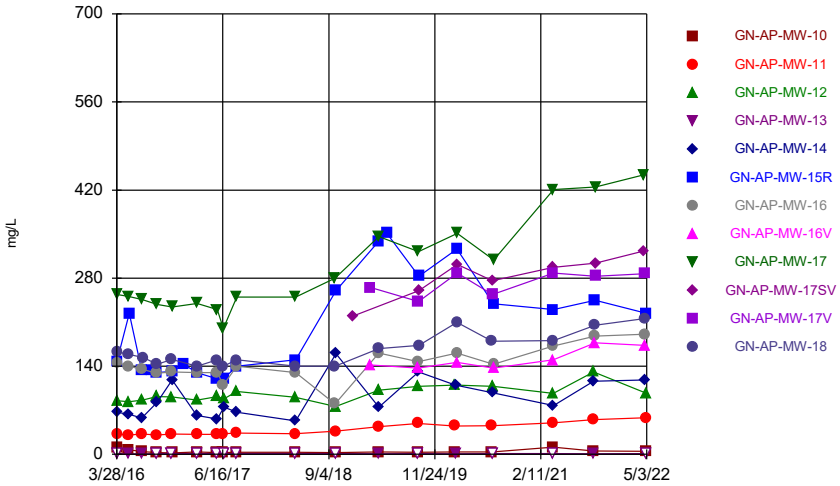
Time Series



Constituent: Selenium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

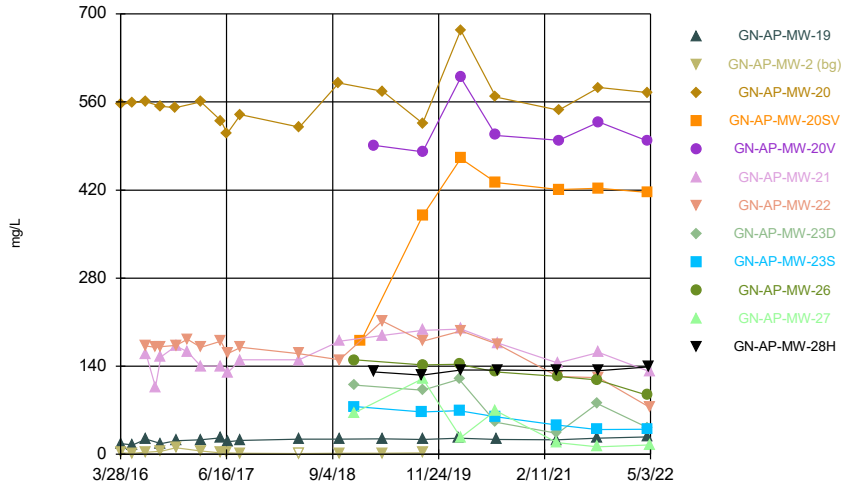
Time Series



Constituent: Sulfate Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

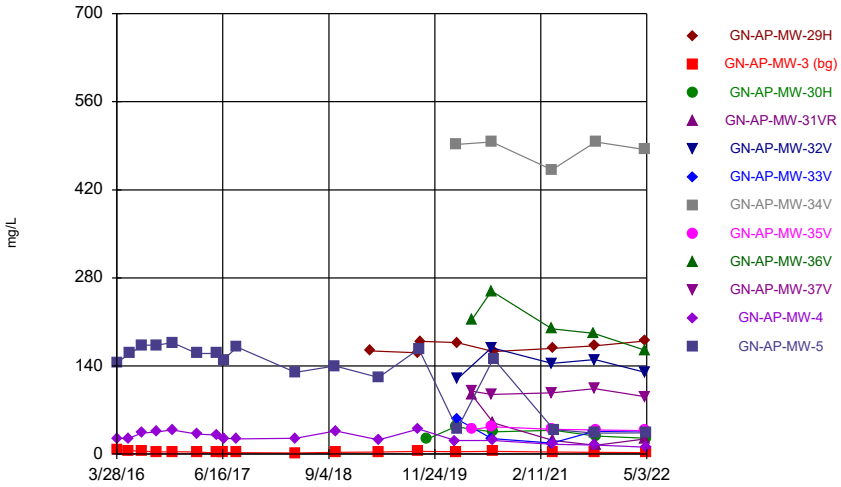
Time Series



Constituent: Sulfate Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

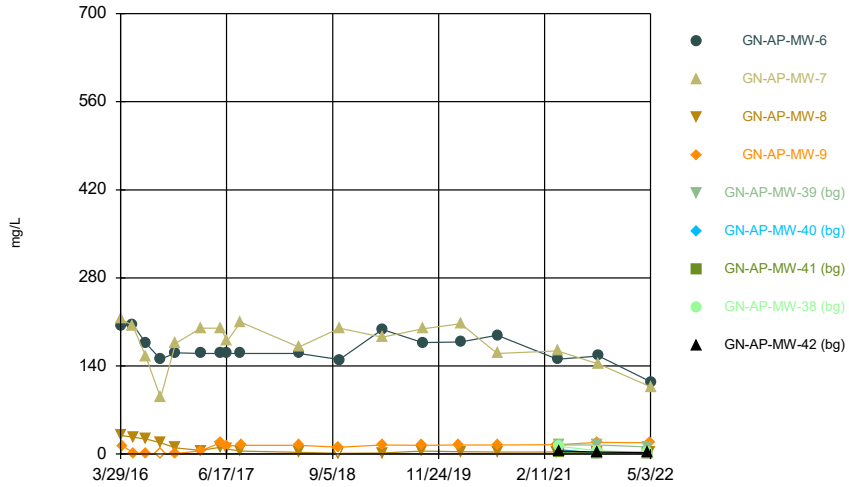
Time Series



Constituent: Sulfate Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

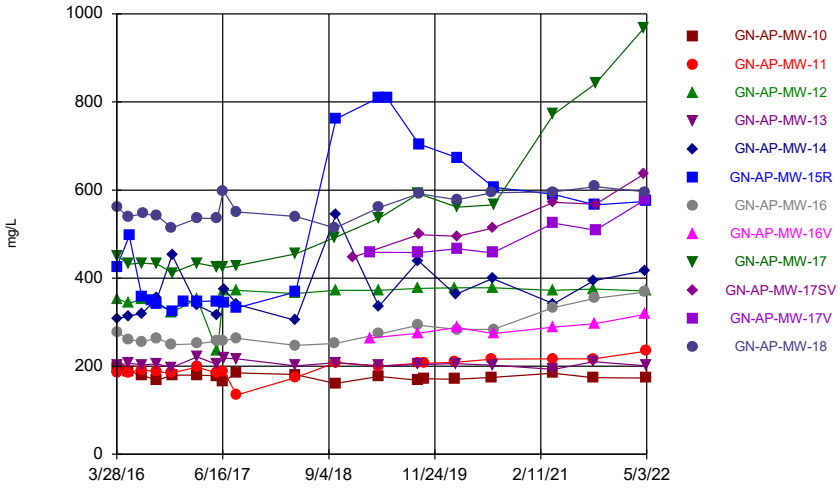
Time Series



Constituent: Sulfate Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

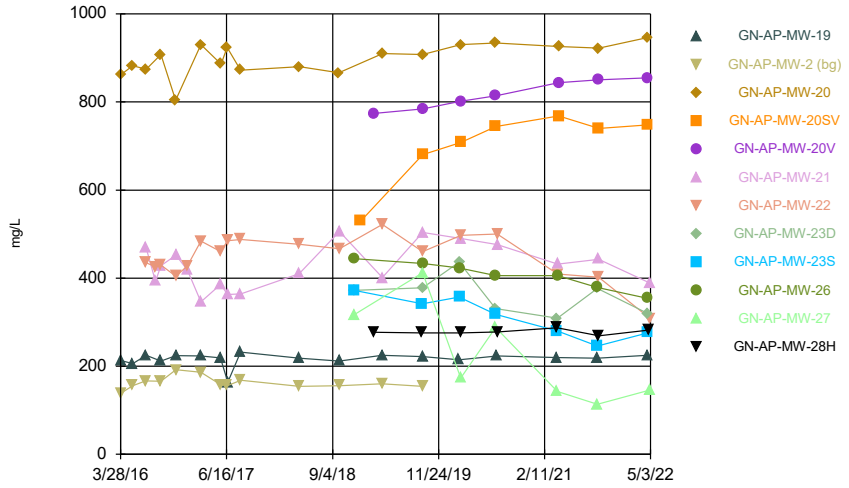


Constituent: TDS Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

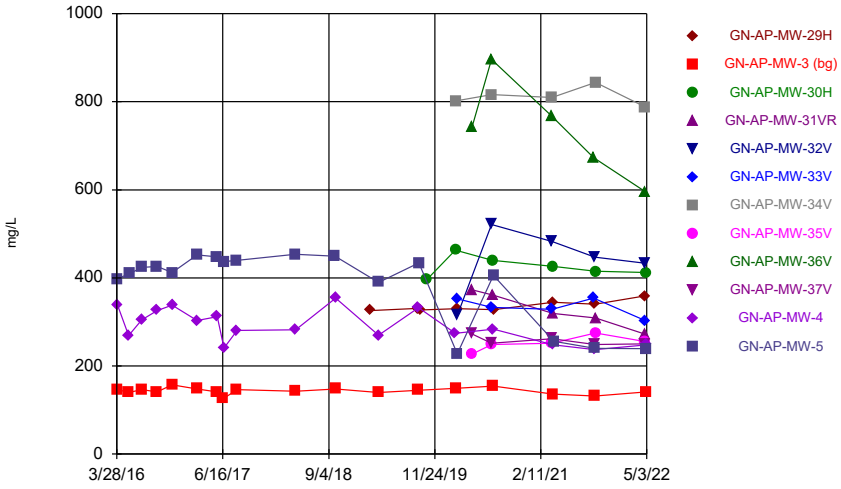


Constituent: TDS Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

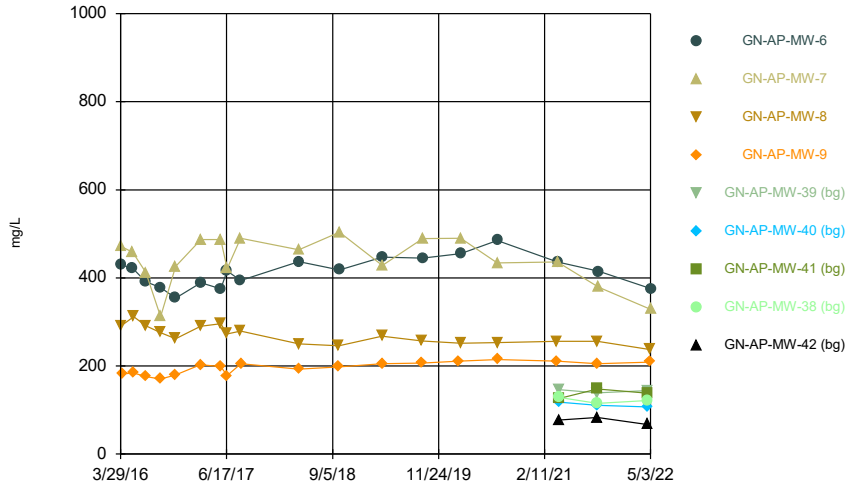


Constituent: TDS Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Time Series

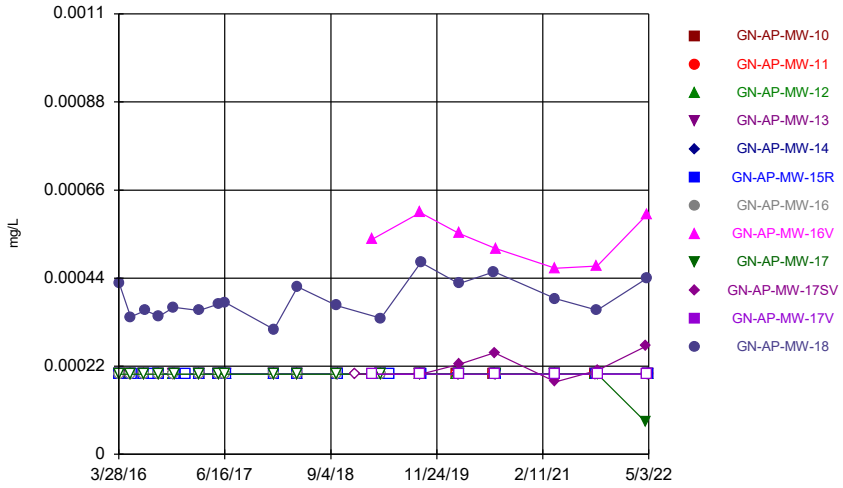


Constituent: TDS Analysis Run 7/15/2022 2:24 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

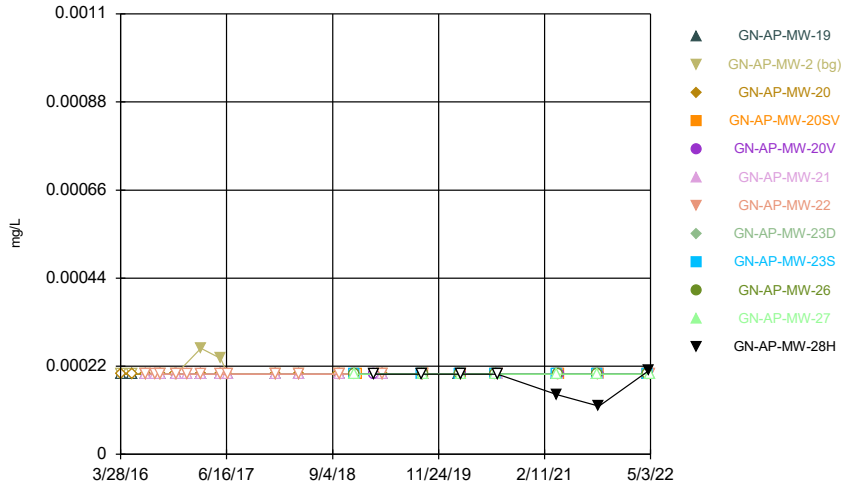
Time Series



Constituent: Thallium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

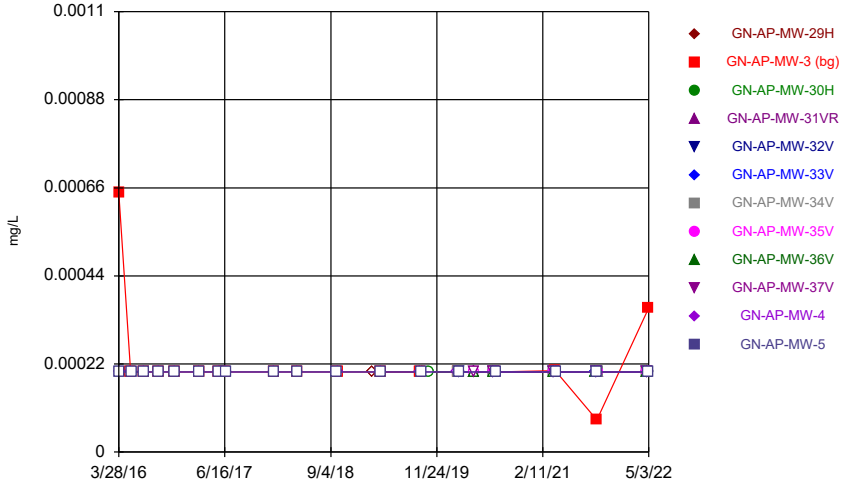
Time Series



Constituent: Thallium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

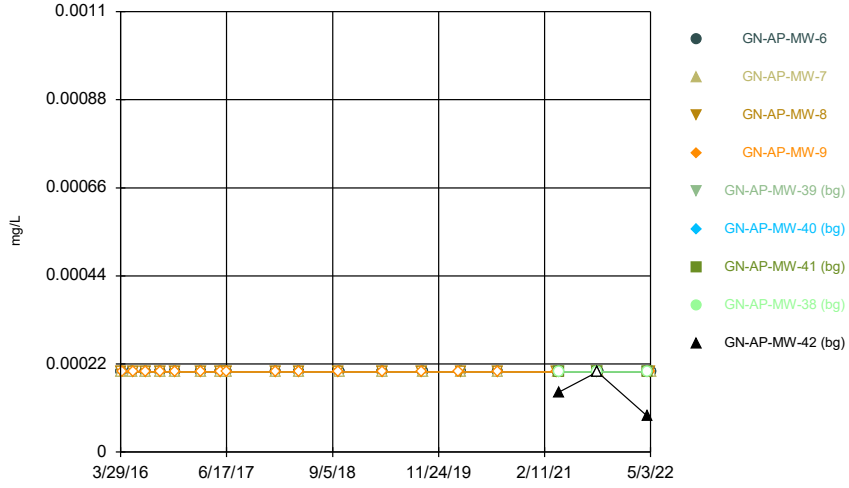
Time Series



Constituent: Thallium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 7/15/2022 2:24 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.000985 (J)	0.000862 (J)			
3/29/2016							0.000838 (J)		0.00107 (J)
3/30/2016	<0.00102	<0.00102	<0.00102	<0.00102					
5/17/2016	<0.00102				<0.00102		<0.00102		0.000869 (J)
5/18/2016		<0.00102	<0.00102	<0.00102					
5/19/2016						<0.00102			
7/11/2016					<0.00102	<0.00102			
7/13/2016	<0.00102	<0.00102	<0.00102						
7/14/2016				<0.00102			<0.00102		0.000882 (J)
7/18/2016									
8/22/2016						<0.00102			
9/12/2016			<0.00102	<0.00102					
9/13/2016	<0.00102	<0.00102			<0.00102		<0.00102		0.000807 (J)
9/14/2016						<0.00102			
11/14/2016		<0.00102	<0.00102	0.000748 (J)			<0.00102		
11/15/2016	<0.00102				<0.00102	<0.00102			
11/16/2016									0.000801 (J)
1/3/2017						<0.00102			
2/27/2017					0.00076 (J)	0.000947 (J)			
2/28/2017	0.000753 (J)	0.000823 (J)	0.000648 (J)	0.000755 (J)			0.000632 (J)		0.00129 (J)
5/22/2017	<0.00102	<0.00102				<0.00102			
5/24/2017			<0.00102	<0.00102	<0.00102		<0.00102		0.000774 (J)
6/19/2017	<0.00102	<0.00102					<0.00102		0.000792 (J)
6/20/2017						<0.00102			
6/21/2017			<0.00102	<0.00102	<0.00102				
1/9/2018		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		0.000904 (J)
1/10/2018	<0.00102								
4/16/2018	<0.00102	<0.00102	<0.00102						
4/19/2018				<0.00102	<0.00102	<0.00102	<0.00102		0.000731 (J)
10/1/2018							<0.00102		<0.00102
10/2/2018	<0.00102								
10/4/2018		<0.00102	<0.00102						
10/5/2018				<0.00102	<0.00102	<0.00102			
12/17/2018									
2/25/2019								<0.00102	
2/27/2019									
4/3/2019	<0.00102	<0.00102	0.000871 (J)	<0.00102	0.000939 (J)	0.00113 (J)	<0.00102		0.00135 (J)
5/7/2019						0.000998 (J)			
9/16/2019	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	
9/17/2019				<0.00102	<0.00102				<0.00102
9/18/2019						<0.00102			
2/17/2020	<0.00102	<0.00102							
2/18/2020			<0.00102						
2/19/2020				<0.00102	<0.00102				
2/25/2020						<0.00102	<0.00102	<0.00102	
2/26/2020									<0.00102
7/22/2020	<0.00102	<0.00102							
7/23/2020					<0.00102				
7/27/2020			<0.00102	<0.00102					
7/28/2020						<0.00102	<0.00102	<0.00102	
7/29/2020									0.000845 (J)
4/5/2021	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<0.00102	<0.00102	<0.00102			0.000633 (J)
9/21/2021	<0.00102	<0.00102							
9/22/2021			<0.00102	<0.00102	<0.00102				
9/28/2021						<0.00102	<0.00102	<0.00102	
9/29/2021									<0.00102
4/20/2022									0.00068 (J)
4/26/2022									
4/27/2022					<0.00102		<0.00102	<0.00102	
5/2/2022	<0.00102	<0.00102		<0.00102		<0.00102			
5/3/2022			<0.00102						

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			<0.00102
3/30/2016			
5/17/2016			<0.00102
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.00102
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.00102
11/14/2016			<0.00102
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.000728 (J)
5/22/2017			
5/24/2017			<0.00102
6/19/2017			<0.00102
6/20/2017			
6/21/2017			
1/9/2018			<0.00102
1/10/2018			
4/16/2018			
4/19/2018			<0.00102
10/1/2018			<0.00102
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.00102		
2/25/2019			
2/27/2019		<0.00102	
4/3/2019			<0.00102
5/7/2019			
9/16/2019			
9/17/2019		<0.00102	
9/18/2019	<0.00102		<0.00102
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.00102
2/26/2020	<0.00102	<0.00102	
7/22/2020			<0.00102
7/23/2020	<0.00102	<0.00102	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.00102	<0.00102	<0.00102
9/21/2021			
9/22/2021			
9/28/2021			<0.00102
9/29/2021	<0.00102	<0.00102	
4/20/2022	<0.00102		
4/26/2022		<0.00102	<0.00102
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.00102	<0.00102							
3/29/2016			<0.00102						
5/18/2016	<0.00102	<0.00102	<0.00102						
7/11/2016		<0.00102							
7/13/2016	<0.00102		<0.00102			<0.00102			
7/14/2016							<0.00102		
8/22/2016						<0.00102	<0.00102		
9/13/2016	<0.00102					<0.00102	<0.00102		
9/14/2016		<0.00102	<0.00102						
11/14/2016			<0.00102						
11/15/2016						<0.00102	<0.00102		
11/16/2016	<0.00102	<0.00102							
1/3/2017						<0.00102	<0.00102		
2/27/2017	<0.00102								
2/28/2017			0.000643 (J)						
3/1/2017		0.00062 (J)				<0.00102	0.000678 (J)		
5/22/2017	<0.00102								
5/23/2017		<0.00102				<0.00102	<0.00102		
5/24/2017			<0.00102						
6/19/2017		<0.00102	<0.00102						
6/20/2017						<0.00102	<0.00102		
6/21/2017	<0.00102								
1/9/2018			<0.00102				<0.00102		
1/10/2018	<0.00102	<0.00102				<0.00102			
4/17/2018						<0.00102	<0.00102		
4/19/2018	<0.00102	<0.00102	<0.00102						
10/1/2018			<0.00102						
10/2/2018	<0.00102								
10/3/2018		<0.00102							
10/4/2018						<0.00102	<0.00102		
12/5/2018								<0.00102	<0.00102
12/6/2018									
12/13/2018				0.000904 (J)					
2/26/2019									
2/27/2019					<0.00102				
4/1/2019	0.00123 (J)	0.000946 (J)							
4/2/2019						<0.00102	<0.00102		
4/3/2019			<0.00102						
9/16/2019									
9/17/2019									<0.00102
9/18/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	0.000804 (J)	
2/18/2020	<0.00102								
2/19/2020								<0.00102	<0.00102
2/25/2020			<0.00102	<0.00102	<0.00102				
2/26/2020						<0.00102	<0.00102		
7/21/2020								<0.00102	<0.00102
7/22/2020			<0.00102	<0.00102	<0.00102				
7/27/2020	<0.00102								
7/28/2020						<0.00102	<0.00102		
7/29/2020									
4/5/2021	<0.00102								
4/6/2021								<0.00102	<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						<0.00102	<0.00102		
4/12/2021			<0.00102	<0.00102	<0.00102				
9/21/2021								<0.00102	<0.00102
9/22/2021	<0.00102								
9/27/2021						<0.00102	<0.00102		
9/28/2021			<0.00102	<0.00102	<0.00102				
4/19/2022	<0.00102				<0.00102				
4/20/2022			<0.00102	<0.00102				<0.00102	<0.00102
4/27/2022									
5/2/2022									
5/3/2022						<0.00102	<0.00102		

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.00102	
12/6/2018	<0.00102		
12/13/2018			
2/26/2019			<0.00102
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.00102
9/17/2019			
9/18/2019	<0.00102	<0.00102	
2/18/2020			
2/19/2020	<0.00102		
2/25/2020		<0.00102	<0.00102
2/26/2020			
7/21/2020		<0.00102	
7/22/2020	<0.00102		
7/27/2020			
7/28/2020			
7/29/2020			<0.00102
4/5/2021			<0.00102
4/6/2021		<0.00102	

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.00102		
4/12/2021			
9/21/2021		<0.00102	
9/22/2021	<0.00102		
9/27/2021			
9/28/2021			<0.00102
4/19/2022			
4/20/2022	<0.00102		
4/27/2022			<0.00102
5/2/2022		<0.00102	
5/3/2022			

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.00102							
3/30/2016									
5/17/2016		<0.00102							
5/23/2016									
7/11/2016		<0.00102							
7/14/2016									
9/13/2016									
9/14/2016		<0.00102							
11/15/2016									
11/16/2016		<0.00102							
2/28/2017									
3/1/2017		0.000613 (J)							
5/23/2017		<0.00102							
5/24/2017									
6/19/2017		<0.00102							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.00102							
4/17/2018									
4/19/2018		<0.00102							
10/1/2018									
10/3/2018		<0.00102							
2/26/2019	<0.00102								
4/2/2019		<0.00102							
9/17/2019	<0.00102	<0.00102							
9/18/2019									
9/26/2019	<0.00102								
10/22/2019			<0.00102						
2/18/2020									
2/19/2020		<0.00102	<0.00102				<0.00102		
2/25/2020	<0.00102					<0.00102			
2/26/2020					<0.00102				
4/29/2020				<0.00102				<0.00102	<0.00102
7/20/2020					<0.00102				<0.00102
7/21/2020						<0.00102	<0.00102	<0.00102	
7/23/2020			<0.00102						
7/27/2020		<0.00102		<0.00102					
7/28/2020									
7/29/2020	<0.00102								
3/30/2021					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/5/2021	<0.00102	<0.00102		<0.00102					
4/6/2021			<0.00102						
4/7/2021									
9/22/2021						<0.00102			<0.00102
9/27/2021		<0.00102			<0.00102				
9/28/2021	<0.00102								
9/29/2021			<0.00102	<0.00102			<0.00102	<0.00102	
4/26/2022	<0.00102				<0.00102	<0.00102			<0.00102
4/27/2022				<0.00102			<0.00102	<0.00102	
5/2/2022			<0.00102						
5/3/2022		<0.00102							

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		<0.00102	<0.00102
5/17/2016		<0.00102	
5/23/2016			<0.00102
7/11/2016		<0.00102	
7/14/2016			<0.00102
9/13/2016			<0.00102
9/14/2016		<0.00102	
11/15/2016			<0.00102
11/16/2016		<0.00102	
2/28/2017		<0.00102	
3/1/2017			0.000689 (J)
5/23/2017			<0.00102
5/24/2017		<0.00102	
6/19/2017			
6/20/2017			<0.00102
6/21/2017		<0.00102	
1/9/2018			<0.00102
1/10/2018		<0.00102	
4/17/2018			<0.00102
4/19/2018		<0.00102	
10/1/2018			<0.00102
10/3/2018		<0.00102	
2/26/2019			
4/2/2019		<0.00102	<0.00102
9/17/2019		<0.00102	
9/18/2019			<0.00102
9/26/2019			
10/22/2019			
2/18/2020		<0.00102	
2/19/2020			
2/25/2020			
2/26/2020			<0.00102
4/29/2020	<0.00102		
7/20/2020	<0.00102		
7/21/2020			
7/23/2020			
7/27/2020		<0.00102	
7/28/2020			<0.00102
7/29/2020			
3/30/2021	<0.00102		
4/5/2021		<0.00102	
4/6/2021			
4/7/2021			<0.00102
9/22/2021			
9/27/2021	<0.00102	<0.00102	<0.00102
9/28/2021			
9/29/2021			
4/26/2022	<0.00102		
4/27/2022			
5/2/2022		<0.00102	
5/3/2022			<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			0.00238 (J)						
3/30/2016	<0.00102	<0.00102							
4/4/2016				<0.00102					
5/19/2016	<0.00102	<0.00102							
5/23/2016			<0.00102	<0.00102					
7/12/2016			<0.00102	<0.00102					
7/13/2016	<0.00102	<0.00102							
9/13/2016	<0.00102	<0.00102	<0.00102	<0.00102					
11/15/2016	<0.00102	<0.00102	<0.00102	<0.00102					
2/28/2017			0.000718 (J)	0.000662 (J)					
3/1/2017	<0.00102	<0.00102							
5/23/2017	<0.00102	<0.00102							
5/24/2017			<0.00102	<0.00102					
6/20/2017	<0.00102	<0.00102	<0.00102	<0.00102					
1/10/2018	<0.00102	<0.00102	<0.00102	<0.00102					
4/17/2018	<0.00102	<0.00102	<0.00102	<0.00102					
10/1/2018			<0.00102	<0.00102					
10/4/2018	<0.00102	<0.00102							
4/1/2019			<0.00102	<0.00102					
4/2/2019	0.000819 (J)	0.00089 (J)							
9/17/2019			<0.00102	<0.00102					
9/18/2019	<0.00102	<0.00102							
2/17/2020				<0.00102					
2/25/2020			<0.00102						
2/26/2020	<0.00102	<0.00102							
7/28/2020	<0.00102	<0.00102							
7/29/2020			<0.00102	<0.00102					
4/5/2021				<0.00102					
4/6/2021			<0.00102						
4/7/2021	<0.00102	<0.00102							
4/12/2021					<0.00102	<0.00102	<0.00102	<0.00102	
4/13/2021									<0.00102
9/21/2021			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/27/2021	<0.00102	<0.00102							
4/19/2022					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
5/2/2022			<0.00102	<0.00102					
5/3/2022	<0.00102	<0.00102							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.0048 (J)	0.00122 (J)			
3/29/2016							0.00385 (J)		0.0125
3/30/2016	0.00105 (J)	<0.0002	0.00148 (J)	<0.0002					
5/17/2016	<0.0002				0.0016 (J)		0.00337 (J)		0.0112
5/18/2016		<0.0002	0.00194 (J)	<0.0002					
5/19/2016						0.0015 (J)			
7/11/2016					0.00112 (J)	<0.0002			
7/13/2016	<0.0002	<0.0002	0.0021 (J)						
7/14/2016				<0.0002			0.00407 (J)		0.013
7/18/2016									
8/22/2016						<0.0002			
9/12/2016			0.00456 (J)	<0.0002					
9/13/2016	<0.0002	<0.0002			<0.0002		0.00394 (J)		0.0124
9/14/2016						<0.0002			
11/14/2016		<0.0002	0.00241 (J)	<0.0002			0.0037 (J)		
11/15/2016	<0.0002				<0.0002	<0.0002			
11/16/2016									0.0121
1/3/2017						<0.0002			
2/27/2017					<0.0002	<0.0002			
2/28/2017	<0.0002	<0.0002	0.0022 (J)	<0.0002			0.00409 (J)		0.0127
5/22/2017	<0.0002	<0.0002				<0.0002			
5/24/2017			0.00564	<0.0002	<0.0002		0.00419 (J)		0.0121
6/19/2017	<0.0002	<0.0002					0.00424 (J)		0.0129
6/20/2017						<0.0002			
6/21/2017			0.00257 (J)	<0.0002	<0.0002				
1/9/2018		<0.0002	0.00886	<0.0002	<0.0002	<0.0002	0.00505		0.0138
1/10/2018	<0.0002								
4/16/2018	<0.0002	<0.0002	0.00754						
4/19/2018				<0.0002	0.00113 (J)	<0.0002	0.00484 (J)		0.0125
10/1/2018							0.00466 (J)		0.0118
10/2/2018	<0.0002								
10/4/2018		<0.0002	0.0081						
10/5/2018				<0.0002	<0.0002	0.0015 (J)			
12/17/2018									
2/25/2019								0.00105 (J)	
2/27/2019									
4/3/2019	<0.0002	<0.0002	0.00726	<0.0002	<0.0002	0.00207 (J)	0.00466 (J)		0.0106
5/7/2019						0.0016 (J)			
9/16/2019	<0.0002	<0.0002	0.00538				0.00492 (J)	0.00111 (J)	
9/17/2019				<0.0002	0.00108 (J)				0.0109
9/18/2019						<0.0002			
2/17/2020	<0.0002	<0.0002							
2/18/2020			0.00269 (J)						
2/19/2020				<0.0002	<0.0002				
2/25/2020						0.00129 (J)	0.00495 (J)	0.00105 (J)	
2/26/2020									0.011
7/22/2020	<0.0002	<0.0002							
7/23/2020					<0.0002				
7/27/2020			0.0041 (J)	<0.0002					
7/28/2020						0.00101 (J)	0.00535	0.00117 (J)	
7/29/2020									0.00947
4/5/2021	0.000311	0.000237	0.00276				0.00452	0.00117	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				0.000661	0.000441	0.000767			0.00999
9/21/2021	0.00024	0.00017 (J)							
9/22/2021			0.00529	0.00052	0.00057				
9/28/2021						0.00084	0.00593	0.0012	
9/29/2021									0.00941
4/20/2022									0.0084
4/26/2022									
4/27/2022					0.00059		0.00552	0.00114	
5/2/2022	0.00024	0.00018 (J)		0.00043		0.00058			
5/3/2022			0.00223						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			0.00273 (J)
3/30/2016			
5/17/2016			0.00237 (J)
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			0.0024 (J)
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			0.00243 (J)
11/14/2016			0.00232 (J)
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.00259 (J)
5/22/2017			
5/24/2017			0.00229 (J)
6/19/2017			0.00248 (J)
6/20/2017			
6/21/2017			
1/9/2018			0.00276 (J)
1/10/2018			
4/16/2018			
4/19/2018			0.00259 (J)
10/1/2018			0.00288 (J)
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.00173 (J)		
2/25/2019			
2/27/2019		0.00112 (J)	
4/3/2019			0.0067
5/7/2019			
9/16/2019			
9/17/2019		0.00136 (J)	
9/18/2019	0.00215 (J)		0.00308 (J)
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			0.00265 (J)
2/26/2020	0.00199 (J)	0.00123 (J)	
7/22/2020			0.00331 (J)
7/23/2020	0.00191 (J)	0.00128 (J)	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	0.00217	0.00122	0.00272
9/21/2021			
9/22/2021			
9/28/2021			0.00416
9/29/2021	0.00207	0.0015	
4/20/2022	0.00183		
4/26/2022		0.00112	0.00281
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	0.00463 (J)	<0.0002							
3/29/2016			0.00424 (J)						
5/18/2016	0.00511	<0.0002	0.00409 (J)						
7/11/2016		<0.0002							
7/13/2016	0.004 (J)		0.00512			0.00666			
7/14/2016							0.00305 (J)		
8/22/2016						0.0088	0.00169 (J)		
9/13/2016	0.00488 (J)					0.00489 (J)	0.00207 (J)		
9/14/2016		<0.0002	0.00411 (J)						
11/14/2016			0.00365 (J)						
11/15/2016						0.00395 (J)	0.00321 (J)		
11/16/2016	0.00513	0.00105 (J)							
1/3/2017						0.00343 (J)	0.00261 (J)		
2/27/2017	0.00425 (J)								
2/28/2017			0.00369 (J)						
3/1/2017		<0.0002				0.00348 (J)	0.00135 (J)		
5/22/2017	0.00252 (J)								
5/23/2017		<0.0002				0.00294 (J)	0.00151 (J)		
5/24/2017			0.00369 (J)						
6/19/2017		<0.0002	0.00397 (J)						
6/20/2017						0.00286 (J)	<0.0002		
6/21/2017	0.00314 (J)								
1/9/2018			0.00428 (J)				<0.0002		
1/10/2018	0.00294 (J)	<0.0002				0.00318 (J)			
4/17/2018						0.00195 (J)	<0.0002		
4/19/2018	0.00298 (J)	<0.0002	0.00374 (J)						
10/1/2018			0.00372 (J)						
10/2/2018	0.00361 (J)								
10/3/2018		<0.0002							
10/4/2018						0.00309 (J)	<0.0002		
12/5/2018								0.00113 (J)	<0.0002
12/6/2018									
12/13/2018				0.00301 (J)					
2/26/2019									
2/27/2019					0.00119 (J)				
4/1/2019	0.0024 (J)	<0.0002							
4/2/2019						0.00134 (J)	<0.0002		
4/3/2019			0.00398 (J)						
9/16/2019									
9/17/2019									<0.0002
9/18/2019	0.00322 (J)	<0.0002	0.00425 (J)	0.00253 (J)	<0.0002	0.00239 (J)	0.00129 (J)	0.00255 (J)	
2/18/2020	0.00196 (J)								
2/19/2020								<0.0002	<0.0002
2/25/2020			0.0043 (J)	0.00243 (J)	<0.0002				
2/26/2020						0.00116 (J)	<0.0002		
7/21/2020								0.00175 (J)	<0.0002
7/22/2020			0.00349 (J)	0.0042 (J)	0.00105 (J)				
7/27/2020	0.00221 (J)								
7/28/2020						0.00166 (J)	<0.0002		
7/29/2020									
4/5/2021	0.00228								
4/6/2021								0.0022	0.00026

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						0.00103	0.000184 (J)		
4/12/2021			0.00368	0.00339	0.002				
9/21/2021								0.00102	0.00017 (J)
9/22/2021	0.00221								
9/27/2021						0.00103	0.00017 (J)		
9/28/2021			0.00424	0.00296	0.00222				
4/19/2022	0.00215				0.00298				
4/20/2022			0.00405	0.00226				0.00196	0.00028
4/27/2022									
5/2/2022									
5/3/2022						0.00141	0.00015 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.0002	
12/6/2018	<0.0002		
12/13/2018			
2/26/2019			0.00192 (J)
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			0.0036 (J)
9/17/2019			
9/18/2019	<0.0002	<0.0002	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		<0.0002	0.00352 (J)
2/26/2020			
7/21/2020		<0.0002	
7/22/2020	<0.0002		
7/27/2020			
7/28/2020			
7/29/2020			0.0032 (J)
4/5/2021			0.00321
4/6/2021		0.000159 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	0.000148 (J)		
4/12/2021			
9/21/2021		0.00018 (J)	
9/22/2021	0.00012 (J)		
9/27/2021			
9/28/2021			0.0028
4/19/2022			
4/20/2022	0.00012 (J)		
4/27/2022			0.00278
5/2/2022		0.00022	
5/3/2022			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.0002							
3/30/2016									
5/17/2016		<0.0002							
5/23/2016									
7/11/2016		<0.0002							
7/14/2016									
9/13/2016									
9/14/2016		<0.0002							
11/15/2016									
11/16/2016		<0.0002							
2/28/2017									
3/1/2017		<0.0002							
5/23/2017		<0.0002							
5/24/2017									
6/19/2017		<0.0002							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.0002							
4/17/2018									
4/19/2018		<0.0002							
10/1/2018									
10/3/2018		<0.0002							
2/26/2019	0.00168 (J)								
4/2/2019		<0.0002							
9/17/2019	0.00222 (J)	<0.0002							
9/18/2019									
9/26/2019	0.00225 (J)								
10/22/2019			0.00169 (J)						
2/18/2020									
2/19/2020		<0.0002	0.00651				0.00393 (J)		
2/25/2020	0.00235 (J)					0.00476 (J)			
2/26/2020					0.00438 (J)				
4/29/2020				0.00315 (J)				<0.0002	0.00178 (J)
7/20/2020					<0.0002				<0.0002
7/21/2020						0.0111	0.00401 (J)	0.00222 (J)	
7/23/2020			0.00536						
7/27/2020		<0.0002		0.00185 (J)					
7/28/2020									
7/29/2020	0.00237 (J)								
3/30/2021					0.0046	0.00882	0.00303	0.00223	0.00131
4/5/2021	0.00227	0.000829		0.00359					
4/6/2021			0.00801						
4/7/2021									
9/22/2021						0.0209			0.00172
9/27/2021		0.00073			0.00523				
9/28/2021	0.00222								
9/29/2021			0.00696	0.00475			0.00231	0.00232	
4/26/2022	0.0021				0.00528	0.0135			0.00212
4/27/2022				0.00989			0.00339	0.00212	
5/2/2022			0.00548						
5/3/2022		0.00058							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		0.002 (J)	<0.0002
5/17/2016		<0.0002	
5/23/2016			<0.0002
7/11/2016		<0.0002	
7/14/2016			<0.0002
9/13/2016			<0.0002
9/14/2016		<0.0002	
11/15/2016			<0.0002
11/16/2016		<0.0002	
2/28/2017		<0.0002	
3/1/2017			<0.0002
5/23/2017			<0.0002
5/24/2017		<0.0002	
6/19/2017			
6/20/2017			<0.0002
6/21/2017		<0.0002	
1/9/2018			<0.0002
1/10/2018		<0.0002	
4/17/2018			<0.0002
4/19/2018		<0.0002	
10/1/2018			<0.0002
10/3/2018		<0.0002	
2/26/2019			
4/2/2019		<0.0002	<0.0002
9/17/2019		<0.0002	
9/18/2019			<0.0002
9/26/2019			
10/22/2019			
2/18/2020		<0.0002	
2/19/2020			
2/25/2020			
2/26/2020			<0.0002
4/29/2020	0.0042 (J)		
7/20/2020	0.00169 (J)		
7/21/2020			
7/23/2020			
7/27/2020		<0.0002	
7/28/2020			<0.0002
7/29/2020			
3/30/2021	0.000664		
4/5/2021		0.000142 (J)	
4/6/2021			
4/7/2021			0.000148 (J)
9/22/2021			
9/27/2021	0.00048	0.00018 (J)	0.00016 (J)
9/28/2021			
9/29/2021			
4/26/2022	0.00073		
4/27/2022			
5/2/2022		0.00016 (J)	
5/3/2022			0.00015 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			0.00155 (J)						
3/30/2016	0.00105 (J)	<0.0002							
4/4/2016				0.00191 (J)					
5/19/2016	<0.0002	<0.0002							
5/23/2016			0.00227 (J)	0.00213 (J)					
7/12/2016			0.00206 (J)	0.00183 (J)					
7/13/2016	<0.0002	<0.0002							
9/13/2016	<0.0002	<0.0002	0.00179 (J)	0.00168 (J)					
11/15/2016	<0.0002	<0.0002	0.00171 (J)	0.00181 (J)					
2/28/2017			0.00232 (J)	0.00404 (J)					
3/1/2017	<0.0002	<0.0002							
5/23/2017	<0.0002	<0.0002							
5/24/2017			0.00151 (J)	0.00161 (J)					
6/20/2017	<0.0002	<0.0002	0.00298 (J)	0.00155 (J)					
1/10/2018	<0.0002	<0.0002	0.00196 (J)	0.00227 (J)					
4/17/2018	<0.0002	<0.0002	0.00219 (J)	0.00174 (J)					
10/1/2018			0.00188 (J)	0.00275 (J)					
10/4/2018	<0.0002	<0.0002							
4/1/2019			0.00177 (J)	0.00269 (J)					
4/2/2019	<0.0002	<0.0002							
9/17/2019			0.00112 (J)	0.00324 (J)					
9/18/2019	<0.0002	<0.0002							
2/17/2020				0.00246 (J)					
2/25/2020			<0.0002						
2/26/2020	<0.0002	<0.0002							
7/28/2020	<0.0002	<0.0002							
7/29/2020			0.00152 (J)	0.00222 (J)					
4/5/2021				0.00234					
4/6/2021			0.00108						
4/7/2021	9.55E-05 (J)	0.000194 (J)							
4/12/2021					0.000946	0.000195 (J)	0.000179 (J)	0.000283	
4/13/2021									0.000163 (J)
9/21/2021			0.0012	0.00308	0.00049	0.0001 (J)	<0.0002	0.00013 (J)	<0.0002
9/27/2021	0.00014 (J)	0.00019 (J)							
4/19/2022					0.00043	0.00017 (J)	0.00014 (J)	0.00019 (J)	0.00027
5/2/2022			0.00107	0.00225					
5/3/2022	0.00015 (J)	0.00016 (J)							

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.0952	0.0856			
3/29/2016							0.031		0.0849
3/30/2016	0.0139	0.00993 (J)	0.0644	0.0337					
5/17/2016	0.0188				0.0437		0.0313		0.0891
5/18/2016		0.011	0.0794	0.038					
5/19/2016						0.132			
7/11/2016					0.0496	0.0302			
7/13/2016	0.0139	0.012	0.0735						
7/14/2016				0.0338			0.0336		0.0965
7/18/2016									
8/22/2016						0.0267			
9/12/2016			0.072	0.0331					
9/13/2016	0.0121	0.01			0.0493		0.0286		0.0811
9/14/2016						0.0247			
11/14/2016		0.00973 (J)	0.0768	0.0353			0.0296		
11/15/2016	0.0132				0.0634	0.0273			
11/16/2016									0.0833
1/3/2017						0.026			
2/27/2017					0.0593	0.0301			
2/28/2017	0.0148	0.00989 (J)	0.0695	0.0388			0.0315		0.0897
5/22/2017	0.0116	0.00911 (J)				0.0274			
5/24/2017			0.0671	0.0344	0.0476		0.0275		0.0673
6/19/2017	0.0113	0.00908 (J)					0.0279		0.0767
6/20/2017						0.0292			
6/21/2017			0.0629	0.0302	0.0481				
1/9/2018		0.00832 (J)	0.0658	0.0321	0.0505	0.0316	0.0273		0.074
1/10/2018	0.0117								
4/16/2018	0.0145	0.00942 (J)	0.0666						
4/19/2018				0.0361	0.0574	0.0368	0.0307		0.088
10/1/2018							0.0295		0.0898
10/2/2018	0.0124								
10/4/2018		0.00817 (J)	0.0667						
10/5/2018				0.0336	0.0776	0.0818			
12/17/2018									
2/25/2019								0.0423	
2/27/2019									
4/3/2019	0.0137	0.00993 (J)	0.073	0.0363	0.0619	0.134	0.0335		0.105
5/7/2019						0.0774			
9/16/2019	0.0135	0.00956 (J)	0.0819				0.0393	0.0503	
9/17/2019				0.0396	0.0745				0.12
9/18/2019						0.0799			
2/17/2020	0.0127	0.0088 (J)							
2/18/2020			0.0726						
2/19/2020				0.0381	0.0653				
2/25/2020						0.0693	0.0353	0.0507	
2/26/2020									0.105
7/22/2020	0.0141	0.0082 (J)							
7/23/2020					0.0686				
7/27/2020			0.077	0.0395					
7/28/2020						0.0635	0.0355	0.052	
7/29/2020									0.0978
4/5/2021	0.0142	0.00832	0.0751				0.0421	0.0482	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				0.0389	0.0659	0.0541			0.119
9/21/2021	0.0129	0.00893							
9/22/2021			0.0815	0.0444	0.0739				
9/28/2021						0.0615	0.051	0.0547	
9/29/2021									0.119
4/20/2022									0.12
4/26/2022									
4/27/2022					0.0763		0.0514	0.0557	
5/2/2022	0.0132	0.00954		0.0414		0.0561			
5/3/2022			0.0752						

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			0.0435
3/30/2016			
5/17/2016			0.0451
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			0.0428
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			0.0415
11/14/2016			0.0422
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.0466
5/22/2017			
5/24/2017			0.0382
6/19/2017			0.0408
6/20/2017			
6/21/2017			
1/9/2018			0.0394
1/10/2018			
4/16/2018			
4/19/2018			0.0434
10/1/2018			0.0424
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.061		
2/25/2019			
2/27/2019		0.0434	
4/3/2019			0.045
5/7/2019			
9/16/2019			
9/17/2019		0.0475	
9/18/2019	0.0667		0.0524
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			0.0474
2/26/2020	0.066	0.0547	
7/22/2020			0.05
7/23/2020	0.0673	0.0424	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	0.0751	0.0491	0.0483
9/21/2021			
9/22/2021			
9/28/2021			0.0525
9/29/2021	0.0826	0.0502	
4/20/2022	0.0906		
4/26/2022		0.0551	0.0515
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	0.037	0.00887 (J)							
3/29/2016			0.0691						
5/18/2016	0.0492	0.00816 (J)	0.074						
7/11/2016		0.0096 (J)							
7/13/2016	0.0555		0.0784			0.0425			
7/14/2016							0.103		
8/22/2016						0.0214	0.0662		
9/13/2016	0.0421					0.0628	0.0644		
9/14/2016		0.00964 (J)	0.0658						
11/14/2016			0.0634						
11/15/2016						0.06	0.132		
11/16/2016	0.042	0.0247							
1/3/2017						0.0348	0.098		
2/27/2017	0.0407								
2/28/2017			0.0676						
3/1/2017		0.0282				0.0395	0.0423		
5/22/2017	0.0271								
5/23/2017		0.0187				0.0279	0.0359		
5/24/2017			0.0551						
6/19/2017		0.0164	0.0604						
6/20/2017						0.0255	0.0396		
6/21/2017	0.024								
1/9/2018			0.0562				0.034		
1/10/2018	0.0195	0.0149				0.033			
4/17/2018						0.0205	0.043		
4/19/2018	0.0208	0.0147	0.0634						
10/1/2018			0.061						
10/2/2018	0.0186								
10/3/2018		0.0131							
10/4/2018						0.0314	0.0353		
12/5/2018								0.0196	0.0364
12/6/2018									
12/13/2018				0.0863					
2/26/2019									
2/27/2019					0.0219				
4/1/2019	0.0188	0.0116							
4/2/2019						0.0146	0.0471		
4/3/2019			0.0599						
9/16/2019									
9/17/2019									0.0316
9/18/2019	0.0211	0.0118	0.0651	0.0982	0.0241	0.0362	0.0458	0.027	
2/18/2020	0.0163								
2/19/2020								0.052	0.0443
2/25/2020			0.0595	0.0912	0.0239				
2/26/2020						0.0339	0.0439		
7/21/2020								0.0336	0.0312
7/22/2020			0.0612	0.12	0.0242				
7/27/2020	0.0165								
7/28/2020						0.0223	0.0406		
7/29/2020									
4/5/2021	0.0149								
4/6/2021								0.0353	0.0282

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						0.0375	0.0352		
4/12/2021			0.0589	0.127	0.0273				
9/21/2021								0.0577	0.0229
9/22/2021	0.0162								
9/27/2021						0.0408	0.036		
9/28/2021			0.0603	0.132	0.0312				
4/19/2022	0.0141				0.0323				
4/20/2022			0.0554	0.119				0.0399	0.0279
4/27/2022									
5/2/2022									
5/3/2022						0.0497	0.0276		

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		0.0297	
12/6/2018	0.0188		
12/13/2018			
2/26/2019			0.0278
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			0.0321
9/17/2019			
9/18/2019	0.0192	0.04	
2/18/2020			
2/19/2020	0.0166		
2/25/2020		0.0149	0.0304
2/26/2020			
7/21/2020		0.0251	
7/22/2020	0.0174		
7/27/2020			
7/28/2020			
7/29/2020			0.0305
4/5/2021			0.0309
4/6/2021		0.0151	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	0.0177		
4/12/2021			
9/21/2021		0.0139	
9/22/2021	0.0179		
9/27/2021			
9/28/2021			0.0345
4/19/2022			
4/20/2022	0.0171		
4/27/2022			0.0318
5/2/2022		0.0158	
5/3/2022			

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		0.0116							
3/30/2016									
5/17/2016		0.00866 (J)							
5/23/2016									
7/11/2016		0.00969 (J)							
7/14/2016									
9/13/2016									
9/14/2016		0.00864 (J)							
11/15/2016									
11/16/2016		0.00917 (J)							
2/28/2017									
3/1/2017		0.00869 (J)							
5/23/2017		0.00658 (J)							
5/24/2017									
6/19/2017		0.00672 (J)							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		0.00645 (J)							
4/17/2018									
4/19/2018		0.00625 (J)							
10/1/2018									
10/3/2018		0.00708 (J)							
2/26/2019	0.0502								
4/2/2019		0.00625 (J)							
9/17/2019	0.0567	0.00834 (J)							
9/18/2019									
9/26/2019	0.0574								
10/22/2019			0.0702						
2/18/2020									
2/19/2020		0.00697 (J)	0.109				0.0576		
2/25/2020	0.0581					0.0549			
2/26/2020					0.0489				
4/29/2020				0.0364				0.0163	0.0831
7/20/2020					0.0555				0.0841
7/21/2020						0.0654	0.0477	0.0199	
7/23/2020			0.0899						
7/27/2020		0.0192		0.0318					
7/28/2020									
7/29/2020	0.0549								
3/30/2021					0.0584	0.0593	0.0392	0.0184	0.0792
4/5/2021	0.0577	0.0222		0.0267					
4/6/2021			0.082						
4/7/2021									
9/22/2021						0.064			0.0847
9/27/2021		0.021			0.0631				
9/28/2021	0.0597								
9/29/2021			0.0813	0.0281			0.041	0.019	
4/26/2022	0.0604				0.0584	0.0461			0.0799
4/27/2022				0.0289			0.0349	0.017	
5/2/2022			0.0734						
5/3/2022		0.0222							

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		0.0219	0.0339
5/17/2016		0.0196	
5/23/2016			0.0289
7/11/2016		0.0286	
7/14/2016			0.0281
9/13/2016			0.0301
9/14/2016		0.0261	
11/15/2016			0.0296
11/16/2016		0.0291	
2/28/2017		0.0229	
3/1/2017			0.0395
5/23/2017			0.0307
5/24/2017		0.0202	
6/19/2017			
6/20/2017			0.0367
6/21/2017		0.0186	
1/9/2018			0.0269
1/10/2018		0.0261	
4/17/2018			0.0441
4/19/2018		0.0231	
10/1/2018			0.0298
10/3/2018		0.0296	
2/26/2019			
4/2/2019		0.0254	0.0371
9/17/2019		0.0344	
9/18/2019			0.0335
9/26/2019			
10/22/2019			
2/18/2020		0.0185	
2/19/2020			
2/25/2020			
2/26/2020			0.0231
4/29/2020	0.0336		
7/20/2020	0.0352		
7/21/2020			
7/23/2020			
7/27/2020		0.0207	
7/28/2020			0.0332
7/29/2020			
3/30/2021	0.0355		
4/5/2021		0.0151	
4/6/2021			
4/7/2021			0.027
9/22/2021			
9/27/2021	0.0367	0.0155	0.0266
9/28/2021			
9/29/2021			
4/26/2022	0.0353		
4/27/2022			
5/2/2022		0.0153	
5/3/2022			0.0219

Time Series

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			0.0277						
3/30/2016	0.0277	0.025							
4/4/2016				0.0789					
5/19/2016	0.0282	0.0249							
5/23/2016			0.0261	0.0733					
7/12/2016			0.0251	0.102					
7/13/2016	0.0222	0.0279							
9/13/2016	0.017	0.0153	0.0189	0.0793					
11/15/2016	0.0151	0.0225	0.0186	0.0882					
2/28/2017			0.0196	0.111					
3/1/2017	0.0212	0.0261							
5/23/2017	0.0162	0.0208							
5/24/2017			0.0228	0.0914					
6/20/2017	0.02	0.0244	0.0188	0.0948					
1/10/2018	0.0183	0.0235	0.0141	0.0836					
4/17/2018	0.0271	0.0252	0.0179	0.0979					
10/1/2018			0.0168	0.118					
10/4/2018	0.0189	0.0265							
4/1/2019			0.0209	0.105					
4/2/2019	0.0243	0.0236							
9/17/2019			0.0202	0.118					
9/18/2019	0.023	0.029							
2/17/2020				0.109					
2/25/2020			0.0168						
2/26/2020	0.0254	0.0261							
7/28/2020	0.026	0.0248							
7/29/2020			0.0206	0.105					
4/5/2021				0.104					
4/6/2021			0.018						
4/7/2021	0.0211	0.0245							
4/12/2021					0.0226	0.0107	0.0155	0.008	
4/13/2021									0.0154
9/21/2021			0.0179	0.114	0.0283	0.00746	0.0213	0.0101	0.0114
9/27/2021	0.0223	0.0218							
4/19/2022					0.0279	0.00636	0.0185	0.00686	0.0148
5/2/2022			0.0188	0.114					
5/3/2022	0.0232	0.0191							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.00119 (J)	<0.00102			
3/29/2016							<0.00102		<0.00102
3/30/2016	<0.00102	<0.00102	<0.00102	<0.00102					
5/17/2016	<0.00102				<0.00102		<0.00102		<0.00102
5/18/2016		<0.00102	<0.00102	<0.00102					
5/19/2016						<0.00102			
7/11/2016					<0.00102	<0.00102			
7/13/2016	<0.00102	<0.00102	<0.00102						
7/14/2016				<0.00102			<0.00102		<0.00102
7/18/2016									
8/22/2016						<0.00102			
9/12/2016			<0.00102	<0.00102					
9/13/2016	<0.00102	<0.00102			<0.00102		<0.00102		<0.00102
9/14/2016						<0.00102			
11/14/2016		<0.00102	<0.00102	<0.00102			<0.00102		
11/15/2016	<0.00102				<0.00102	<0.00102			
11/16/2016									<0.00102
1/3/2017						<0.00102			
2/27/2017					<0.00102	<0.00102			
2/28/2017	<0.00102	<0.00102	<0.00102	<0.00102			<0.00102		<0.00102
5/22/2017	<0.00102	<0.00102				<0.00102			
5/24/2017			<0.00102	<0.00102	<0.00102		<0.00102		<0.00102
6/19/2017	<0.00102	<0.00102					<0.00102		<0.00102
6/20/2017						<0.00102			
6/21/2017			<0.00102	<0.00102	<0.00102				
1/9/2018		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
1/10/2018	<0.00102								
4/16/2018	<0.00102	<0.00102	<0.00102						
4/19/2018				<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
10/1/2018							<0.00102		<0.00102
10/2/2018	<0.00102								
10/4/2018		<0.00102	<0.00102						
10/5/2018				<0.00102	<0.00102	<0.00102			
12/17/2018									
2/25/2019								<0.00102	
2/27/2019									
4/3/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
5/7/2019						<0.00102			
9/16/2019	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	
9/17/2019				<0.00102	<0.00102				<0.00102
9/18/2019						<0.00102			
2/17/2020	<0.00102	<0.00102							
2/18/2020			<0.00102						
2/19/2020				<0.00102	<0.00102				
2/25/2020						<0.00102	<0.00102	<0.00102	
2/26/2020									<0.00102
7/22/2020	<0.00102	<0.00102							
7/23/2020					<0.00102				
7/27/2020			<0.00102	<0.00102					
7/28/2020						<0.00102	<0.00102	<0.00102	
7/29/2020									<0.00102
4/5/2021	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<0.00102	<0.00102	<0.00102			<0.00102
9/21/2021	<0.00102	<0.00102							
9/22/2021			<0.00102	<0.00102	<0.00102				
9/28/2021						<0.00102	<0.00102	<0.00102	
9/29/2021									<0.00102
4/20/2022									<0.00102
4/26/2022									
4/27/2022					<0.00102		<0.00102	<0.00102	
5/2/2022	<0.00102	<0.00102		<0.00102		<0.00102			
5/3/2022			<0.00102						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			<0.00102
3/30/2016			
5/17/2016			<0.00102
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.00102
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.00102
11/14/2016			<0.00102
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.00102
5/22/2017			
5/24/2017			<0.00102
6/19/2017			<0.00102
6/20/2017			
6/21/2017			
1/9/2018			<0.00102
1/10/2018			
4/16/2018			
4/19/2018			<0.00102
10/1/2018			<0.00102
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.00102		
2/25/2019			
2/27/2019		<0.00102	
4/3/2019			<0.00102
5/7/2019			
9/16/2019			
9/17/2019		<0.00102	
9/18/2019	<0.00102		<0.00102
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.00102
2/26/2020	<0.00102	<0.00102	
7/22/2020			<0.00102
7/23/2020	<0.00102	<0.00102	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.00102	<0.00102	<0.00102
9/21/2021			
9/22/2021			
9/28/2021			<0.00102
9/29/2021	<0.00102	<0.00102	
4/20/2022	<0.00102		
4/26/2022		<0.00102	<0.00102
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.00102	<0.00102							
3/29/2016			<0.00102						
5/18/2016	<0.00102	<0.00102	<0.00102						
7/11/2016		<0.00102							
7/13/2016	<0.00102		<0.00102			<0.00102			
7/14/2016							<0.00102		
8/22/2016						<0.00102	<0.00102		
9/13/2016	<0.00102					<0.00102	<0.00102		
9/14/2016		<0.00102	<0.00102						
11/14/2016			<0.00102						
11/15/2016						<0.00102	<0.00102		
11/16/2016	<0.00102	<0.00102							
1/3/2017						<0.00102	<0.00102		
2/27/2017	<0.00102								
2/28/2017			<0.00102						
3/1/2017		<0.00102				<0.00102	<0.00102		
5/22/2017	<0.00102								
5/23/2017		<0.00102				<0.00102	<0.00102		
5/24/2017			<0.00102						
6/19/2017		<0.00102	<0.00102						
6/20/2017						<0.00102	<0.00102		
6/21/2017	<0.00102								
1/9/2018			<0.00102				<0.00102		
1/10/2018	<0.00102	<0.00102				<0.00102			
4/17/2018						<0.00102	<0.00102		
4/19/2018	<0.00102	<0.00102	<0.00102						
10/1/2018			<0.00102						
10/2/2018	<0.00102								
10/3/2018		<0.00102							
10/4/2018						<0.00102	<0.00102		
12/5/2018								<0.00102	<0.00102
12/6/2018									
12/13/2018				<0.00102					
2/26/2019									
2/27/2019					<0.00102				
4/1/2019	<0.00102	<0.00102							
4/2/2019						<0.00102	<0.00102		
4/3/2019			<0.00102						
9/16/2019									
9/17/2019									<0.00102
9/18/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
2/18/2020	<0.00102								
2/19/2020								<0.00102	<0.00102
2/25/2020			<0.00102	<0.00102	<0.00102				
2/26/2020						<0.00102	<0.00102		
7/21/2020								<0.00102	<0.00102
7/22/2020			<0.00102	<0.00102	<0.00102				
7/27/2020	<0.00102								
7/28/2020						<0.00102	<0.00102		
7/29/2020									
4/5/2021	<0.00102								
4/6/2021								<0.00102	<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						<0.00102	<0.00102		
4/12/2021			<0.00102	<0.00102	<0.00102				
9/21/2021								<0.00102	<0.00102
9/22/2021	<0.00102								
9/27/2021						<0.00102	<0.00102		
9/28/2021			<0.00102	<0.00102	<0.00102				
4/19/2022	<0.00102				<0.00102				
4/20/2022			<0.00102	<0.00102				<0.00102	<0.00102
4/27/2022									
5/2/2022									
5/3/2022						<0.00102	<0.00102		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.00102	
12/6/2018	<0.00102		
12/13/2018			
2/26/2019			<0.00102
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.00102
9/17/2019			
9/18/2019	<0.00102	<0.00102	
2/18/2020			
2/19/2020	<0.00102		
2/25/2020		<0.00102	<0.00102
2/26/2020			
7/21/2020		<0.00102	
7/22/2020	<0.00102		
7/27/2020			
7/28/2020			
7/29/2020			<0.00102
4/5/2021			<0.00102
4/6/2021		<0.00102	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.00102		
4/12/2021			
9/21/2021		<0.00102	
9/22/2021	<0.00102		
9/27/2021			
9/28/2021			<0.00102
4/19/2022			
4/20/2022	<0.00102		
4/27/2022			<0.00102
5/2/2022		<0.00102	
5/3/2022			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.00102							
3/30/2016									
5/17/2016		<0.00102							
5/23/2016									
7/11/2016		<0.00102							
7/14/2016									
9/13/2016									
9/14/2016		<0.00102							
11/15/2016									
11/16/2016		<0.00102							
2/28/2017									
3/1/2017		<0.00102							
5/23/2017		<0.00102							
5/24/2017									
6/19/2017		<0.00102							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.00102							
4/17/2018									
4/19/2018		<0.00102							
10/1/2018									
10/3/2018		<0.00102							
2/26/2019	<0.00102								
4/2/2019		<0.00102							
9/17/2019	<0.00102	<0.00102							
9/18/2019									
9/26/2019	<0.00102								
10/22/2019			<0.00102						
2/18/2020									
2/19/2020		<0.00102	<0.00102				<0.00102		
2/25/2020	<0.00102					<0.00102			
2/26/2020					<0.00102				
4/29/2020				<0.00102				<0.00102	<0.00102
7/20/2020					<0.00102				<0.00102
7/21/2020						<0.00102	<0.00102	<0.00102	
7/23/2020			<0.00102						
7/27/2020		<0.00102		<0.00102					
7/28/2020									
7/29/2020	<0.00102								
3/30/2021					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/5/2021	<0.00102	<0.00102		<0.00102					
4/6/2021			<0.00102						
4/7/2021									
9/22/2021						<0.00102			<0.00102
9/27/2021		<0.00102			<0.00102				
9/28/2021	<0.00102								
9/29/2021			<0.00102	<0.00102			<0.00102	<0.00102	
4/26/2022	<0.00102				<0.00102	<0.00102			<0.00102
4/27/2022				<0.00102			<0.00102	<0.00102	
5/2/2022			<0.00102						
5/3/2022		<0.00102							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		<0.00102	<0.00102
5/17/2016		<0.00102	
5/23/2016			<0.00102
7/11/2016		<0.00102	
7/14/2016			<0.00102
9/13/2016			<0.00102
9/14/2016		<0.00102	
11/15/2016			<0.00102
11/16/2016		<0.00102	
2/28/2017		<0.00102	
3/1/2017			<0.00102
5/23/2017			<0.00102
5/24/2017		<0.00102	
6/19/2017			
6/20/2017			<0.00102
6/21/2017		<0.00102	
1/9/2018			<0.00102
1/10/2018		<0.00102	
4/17/2018			<0.00102
4/19/2018		<0.00102	
10/1/2018			<0.00102
10/3/2018		<0.00102	
2/26/2019			
4/2/2019		<0.00102	<0.00102
9/17/2019		<0.00102	
9/18/2019			<0.00102
9/26/2019			
10/22/2019			
2/18/2020		<0.00102	
2/19/2020			
2/25/2020			
2/26/2020			<0.00102
4/29/2020	<0.00102		
7/20/2020	<0.00102		
7/21/2020			
7/23/2020			
7/27/2020		<0.00102	
7/28/2020			<0.00102
7/29/2020			
3/30/2021	<0.00102		
4/5/2021		<0.00102	
4/6/2021			
4/7/2021			<0.00102
9/22/2021			
9/27/2021	<0.00102	<0.00102	<0.00102
9/28/2021			
9/29/2021			
4/26/2022	<0.00102		
4/27/2022			
5/2/2022		<0.00102	
5/3/2022			<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.00102						
3/30/2016	<0.00102	<0.00102							
4/4/2016				<0.00102					
5/19/2016	<0.00102	<0.00102							
5/23/2016			<0.00102	<0.00102					
7/12/2016			<0.00102	<0.00102					
7/13/2016	<0.00102	<0.00102							
9/13/2016	<0.00102	<0.00102	<0.00102	<0.00102					
11/15/2016	<0.00102	<0.00102	<0.00102	<0.00102					
2/28/2017			<0.00102	<0.00102					
3/1/2017	<0.00102	<0.00102							
5/23/2017	<0.00102	<0.00102							
5/24/2017			<0.00102	<0.00102					
6/20/2017	<0.00102	<0.00102	<0.00102	<0.00102					
1/10/2018	<0.00102	<0.00102	<0.00102	<0.00102					
4/17/2018	<0.00102	<0.00102	<0.00102	<0.00102					
10/1/2018			<0.00102	<0.00102					
10/4/2018	<0.00102	<0.00102							
4/1/2019			<0.00102	<0.00102					
4/2/2019	<0.00102	<0.00102							
9/17/2019			<0.00102	<0.00102					
9/18/2019	<0.00102	<0.00102							
2/17/2020				<0.00102					
2/25/2020			<0.00102						
2/26/2020	<0.00102	<0.00102							
7/28/2020	<0.00102	<0.00102							
7/29/2020			<0.00102	<0.00102					
4/5/2021				<0.00102					
4/6/2021			<0.00102						
4/7/2021	<0.00102	<0.00102							
4/12/2021					<0.00102	<0.00102	<0.00102	<0.00102	
4/13/2021									<0.00102
9/21/2021			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/27/2021	<0.00102	<0.00102							
4/19/2022					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
5/2/2022			<0.00102	<0.00102					
5/3/2022	<0.00102	<0.00102							

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					<0.1015	0.103			
3/29/2016							1.32		3.04
3/30/2016	0.0291 (J)	0.112	0.287	<0.1015					
5/17/2016	0.0466 (J)				<0.1015		1.35		3.1
5/18/2016		0.118	0.286	<0.1015					
5/19/2016						0.169			
7/11/2016					<0.1015	0.829			
7/13/2016	0.0305 (J)	0.125	0.299						
7/14/2016				<0.1015			1.32		2.96
7/18/2016									
8/22/2016						0.835			
9/12/2016			0.302	0.0762 (J)					
9/13/2016	<0.1015	0.108			<0.1015		1.31		2.94
9/14/2016						0.838			
11/14/2016		0.126	0.323	<0.1015			1.34		
11/15/2016	<0.1015				<0.1015	0.894			
11/16/2016									2.96
1/3/2017						0.897			
2/27/2017					<0.1015	0.897			
2/28/2017	<0.1015	0.12	0.336	<0.1015			1.28		2.92
5/22/2017	<0.1015	0.116				0.892			
5/24/2017			0.342	<0.1015	<0.1015		1.24		2.66
6/19/2017	0.0204 (J)	0.12					1.26		2.7
6/20/2017						0.91			
6/21/2017			0.342	<0.1015	<0.1015				
8/14/2017	0.0242 (J)	0.124	0.359	<0.1015		0.906	1.24		2.64
8/15/2017					<0.1015				
4/16/2018	0.0466 (J)	0.163	0.384						
4/19/2018				<0.1015	<0.1015	0.991	1.34		2.87
10/1/2018							1.29		2.83
10/2/2018	0.0228 (J)								
10/4/2018		0.206	0.503						
10/5/2018				<0.1015	<0.1015	4.34			
12/17/2018									
2/25/2019								1.33	
2/27/2019									
4/3/2019	<0.1015	0.216	0.401	<0.1015	<0.1015	4.18	1.32		2.92
5/7/2019						4.13			
9/16/2019	<0.1015	0.207	0.423				1.4	1.38	
9/17/2019				<0.1015	<0.1015				3.25
9/18/2019						3.47			
2/17/2020	<0.1015	0.221							
2/18/2020			0.433						
2/19/2020				<0.1015	<0.1015				
2/25/2020						3.13	1.39	1.4	
2/26/2020									3.24
7/22/2020	<0.1015	0.205							
7/23/2020					<0.1015				
7/27/2020			0.444	<0.1015					
7/28/2020						2.7	1.33	1.34	
7/29/2020									3.06
4/5/2021	0.0854 (J)	0.271	0.427				1.43	1.39	

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<0.1015	<0.1015	2.54			3.48
9/21/2021	0.0378 (J)	0.283							
9/22/2021			0.447	<0.1015	<0.1015				
9/28/2021						2.34	1.42	1.37	
9/29/2021									3.37
4/20/2022									3.43
4/26/2022									
4/27/2022					<0.1015		1.47	1.41	
5/2/2022	0.0352 (J)	0.324		<0.1015		2.36			
5/3/2022			0.465						

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			1.33
3/30/2016			
5/17/2016			1.37
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			1.31
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			1.28
11/14/2016			1.31
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			1.29
5/22/2017			
5/24/2017			1.17
6/19/2017			1.24
6/20/2017			
6/21/2017			
8/14/2017			1.19
8/15/2017			
4/16/2018			
4/19/2018			1.3
10/1/2018			1.26
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	2.48		
2/25/2019			
2/27/2019		2.03	
4/3/2019			1.27
5/7/2019			
9/16/2019			
9/17/2019		2.07	
9/18/2019	2.51		1.47
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			1.38
2/26/2020	2.55	2.22	
7/22/2020			1.37
7/23/2020	2.4	1.93	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	2.58	2.16	1.44
9/21/2021			
9/22/2021			
9/28/2021			1.58
9/29/2021	2.53	2.03	
4/20/2022	2.61		
4/26/2022		2.13	1.65
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	0.0538 (J)	<0.1015							
3/29/2016			3.48						
5/18/2016	0.0252 (J)	<0.1015	3.61						
7/11/2016		<0.1015							
7/13/2016	<0.1015		3.7			1.63			
7/14/2016							1.73		
8/22/2016						1.32	1.66		
9/13/2016	<0.1015					1.85	1.85		
9/14/2016		<0.1015	3.53						
11/14/2016			3.51						
11/15/2016						2.12	2.09		
11/16/2016	<0.1015	<0.1015							
1/3/2017						2.01	1.89		
2/27/2017	<0.1015								
2/28/2017			3.44						
3/1/2017		<0.1015				1.47	1.88		
5/22/2017	<0.1015								
5/23/2017		<0.1015				1.41	1.87		
5/24/2017			3.31						
6/19/2017		<0.1015	3.48						
6/20/2017						1.38	1.88		
6/21/2017	<0.1015								
8/14/2017	<0.1015		3.4						
8/15/2017		<0.1015				2.04	1.87		
4/17/2018						1.66	2.04		
4/19/2018	0.0258 (J)	<0.1015	3.74						
10/1/2018			3.73						
10/2/2018	<0.1015								
10/3/2018		<0.1015							
10/4/2018						2.58	2.22		
12/5/2018								1.24	1.13
12/6/2018									
12/13/2018				1.73					
2/26/2019									
2/27/2019					2.79				
4/1/2019	<0.1015	<0.1015							
4/2/2019						1.5	2.03		
4/3/2019			3.77						
9/16/2019									
9/17/2019									0.735
9/18/2019	<0.1015	<0.1015	4.12	2.28	2.91	2.51	2.1	1.42	
2/18/2020	<0.1015								
2/19/2020								1.54	1.2
2/25/2020			4.14	2.27	2.92				
2/26/2020						2.28	2.15		
7/21/2020								1.42	0.743
7/22/2020			3.86	2.64	2.79				
7/27/2020	<0.1015								
7/28/2020						1.84	1.97		
7/29/2020									
4/5/2021	<0.1015								
4/6/2021								1.46	0.672

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						1.75	1.61		
4/12/2021			4.29	3.13	3.05				
9/21/2021								1.46	0.541
9/22/2021	<0.1015								
9/27/2021						1.67	1.43		
9/28/2021			4.32	2.94	2.94				
4/19/2022	<0.1015				3.07				
4/20/2022			4.49	2.91				1.46	0.584
4/27/2022									
5/2/2022									
5/3/2022						1.61	1		

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
8/14/2017			
8/15/2017			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		0.82	
12/6/2018	1.38		
12/13/2018			
2/26/2019			0.754
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			0.805
9/17/2019			
9/18/2019	1.33	1.23	
2/18/2020			
2/19/2020	1.34		
2/25/2020		0.352	0.789
2/26/2020			
7/21/2020		0.658	
7/22/2020	1.18		
7/27/2020			
7/28/2020			
7/29/2020			0.779
4/5/2021			0.796
4/6/2021		0.214	

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	1.16		
4/12/2021			
9/21/2021		0.129	
9/22/2021	1.13		
9/27/2021			
9/28/2021			0.788
4/19/2022			
4/20/2022	1.03		
4/27/2022			0.798
5/2/2022		0.178	
5/3/2022			

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.1015							
3/30/2016									
5/17/2016		<0.1015							
5/23/2016									
7/11/2016		<0.1015							
7/14/2016									
9/13/2016									
9/14/2016		<0.1015							
11/15/2016									
11/16/2016		<0.1015							
2/28/2017									
3/1/2017		<0.1015							
5/23/2017		<0.1015							
5/24/2017									
6/19/2017		<0.1015							
6/20/2017									
6/21/2017									
8/15/2017		<0.1015							
4/17/2018									
4/19/2018		<0.1015							
10/1/2018									
10/3/2018		<0.1015							
2/26/2019	1.17								
4/2/2019		<0.1015							
9/17/2019	1.18	<0.1015							
9/18/2019									
9/26/2019	1.22								
10/22/2019			0.0484 (J)						
2/18/2020									
2/19/2020		<0.1015	0.0595 (J)				2.82		
2/25/2020	1.21					0.337			
2/26/2020					0.446				
4/29/2020				0.204				0.184	0.182
7/20/2020					0.369				0.222
7/21/2020						0.247	2.69	0.148	
7/23/2020			0.0482 (J)						
7/27/2020		<0.1015		0.157					
7/28/2020									
7/29/2020	1.16								
3/30/2021					0.399	0.231	2.85	0.143	0.208
4/5/2021	1.2	<0.1015		0.171					
4/6/2021			0.0485 (J)						
4/7/2021									
9/22/2021						0.145			0.18
9/27/2021		<0.1015			0.401				
9/28/2021	1.16								
9/29/2021			0.0481 (J)	0.155			2.81	0.117	
4/26/2022	1.22				0.417	0.129			0.162
4/27/2022				0.124			3	0.22	
5/2/2022			0.0502 (J)						
5/3/2022		<0.1015							

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		0.193	1.82
5/17/2016		0.201	
5/23/2016			2.11
7/11/2016		0.375	
7/14/2016			2.18
9/13/2016			2.13
9/14/2016		0.507	
11/15/2016			2.22
11/16/2016		0.655	
2/28/2017		0.364	
3/1/2017			2.24
5/23/2017			2.2
5/24/2017		0.352	
6/19/2017			
6/20/2017			2.2
6/21/2017		0.263	
8/15/2017		0.23	2.16
4/17/2018			2.22
4/19/2018		0.305	
10/1/2018			2.64
10/3/2018		0.952	
2/26/2019			
4/2/2019		0.271	1.78
9/17/2019		0.619	
9/18/2019			2.31
9/26/2019			
10/22/2019			
2/18/2020		0.281	
2/19/2020			
2/25/2020			
2/26/2020			0.84
4/29/2020	0.317		
7/20/2020	0.393		
7/21/2020			
7/23/2020			
7/27/2020		0.3	
7/28/2020			2.05
7/29/2020			
3/30/2021	0.526		
4/5/2021		0.2	
4/6/2021			
4/7/2021			0.885
9/22/2021			
9/27/2021	0.51	0.149	0.721
9/28/2021			
9/29/2021			
4/26/2022	0.434		
4/27/2022			
5/2/2022		0.109	
5/3/2022			0.562

Time Series

Constituent: Boron (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			0.161						
3/30/2016	2.89	1.85							
4/4/2016				<0.1015					
5/19/2016	2.84	1.66							
5/23/2016			0.197	<0.1015					
7/12/2016			0.17	<0.1015					
7/13/2016	2.41	1.58							
9/13/2016	2.06	0.674	0.114	<0.1015					
11/15/2016	2.08	1.72	0.0853 (J)	0.0256 (J)					
2/28/2017			0.0452 (J)	0.021 (J)					
3/1/2017	2.25	1.84							
5/23/2017	2.11	1.69							
5/24/2017			0.113	<0.1015					
6/20/2017	2.5	1.75	0.0853 (J)	<0.1015					
8/15/2017	1.34	1.68	0.0862 (J)						
8/16/2017				<0.1015 (U*)					
4/17/2018	2.74	1.81	0.0649 (J)	0.0386 (J)					
10/1/2018			0.03 (J)	<0.1015					
10/4/2018	2.38	2.34							
4/1/2019			0.0345 (J)	<0.1015					
4/2/2019	2.66	1.64							
9/17/2019			0.0439 (J)	<0.1015					
9/18/2019	2.68	2.16							
2/17/2020				<0.1015					
2/25/2020			<0.1015						
2/26/2020	2.94	1.99							
7/28/2020	2.79	1.81							
7/29/2020			<0.1015	<0.1015					
4/5/2021				0.0314 (J)					
4/6/2021			0.0327 (J)						
4/7/2021	2.4	1.9							
4/12/2021					<0.1015	0.0342 (J)	<0.1015	<0.1015	
4/13/2021									<0.1015
9/21/2021			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/27/2021	2.03	1.52							
4/19/2022					<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
5/2/2022			0.0313 (J)	<0.1015					
5/3/2022	1.81	1.3							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.00133	<0.0002			
3/29/2016							<0.0002		0.000357 (J)
3/30/2016	<0.0002	<0.0002	<0.0002	<0.0002					
5/17/2016	<0.0002				<0.0002		<0.0002		0.000216 (J)
5/18/2016		<0.0002	<0.0002	<0.0002					
5/19/2016						<0.0002			
7/11/2016					<0.0002	<0.0002			
7/13/2016	<0.0002	<0.0002	<0.0002						
7/14/2016				<0.0002			<0.0002		0.000277 (J)
7/18/2016									
8/22/2016						<0.0002			
9/12/2016			<0.0002	<0.0002					
9/13/2016	<0.0002	<0.0002			<0.0002		<0.0002		0.000203 (J)
9/14/2016						<0.0002			
11/14/2016		<0.0002	<0.0002	<0.0002			<0.0002		
11/15/2016	<0.0002				<0.0002	<0.0002			
11/16/2016									0.00027 (J)
1/3/2017						<0.0002			
2/27/2017					<0.0002	<0.0002			
2/28/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002		0.000351 (J)
5/22/2017	<0.0002	<0.0002				<0.0002			
5/24/2017			<0.0002	<0.0002	<0.0002		<0.0002		0.000339 (J)
6/19/2017	<0.0002	<0.0002					<0.0002		0.000318 (J)
6/20/2017						<0.0002			
6/21/2017			<0.0002	<0.0002	<0.0002				
1/9/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/10/2018	<0.0002								
4/16/2018	<0.0002	<0.0002	<0.0002						
4/19/2018				<0.0002	<0.0002	<0.0002	<0.0002		0.000415 (J)
10/1/2018							<0.0002		0.000491 (J)
10/2/2018	<0.0002								
10/4/2018		<0.0002	<0.0002						
10/5/2018				<0.0002	<0.0002	<0.0002			
12/17/2018									
2/25/2019								<0.0002	
2/27/2019									
4/3/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		0.00051 (J)
5/7/2019						<0.0002			
9/16/2019	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	
9/17/2019				<0.0002	<0.0002				<0.0002
9/18/2019						<0.0002			
2/17/2020	<0.0002	<0.0002							
2/18/2020			<0.0002						
2/19/2020				<0.0002	<0.0002				
2/25/2020						<0.0002	<0.0002	<0.0002	
2/26/2020									<0.0002
7/22/2020	<0.0002	<0.0002							
7/23/2020					<0.0002				
7/27/2020			<0.0002	<0.0002					
7/28/2020						<0.0002	<0.0002	<0.0002	
7/29/2020									<0.0002
4/5/2021	<0.0002	<0.0002	<0.0002				9.99E-05 (J)	8.25E-05 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<0.0002	<0.0002	<0.0002			0.000391
9/21/2021	<0.0002	<0.0002							
9/22/2021			<0.0002	<0.0002	<0.0002				
9/28/2021						<0.0002	<0.0002	8E-05 (J)	
9/29/2021									0.00034
4/20/2022									0.00048
4/26/2022									
4/27/2022					<0.0002		8E-05 (J)	0.00012 (J)	
5/2/2022	<0.0002	<0.0002		<0.0002		<0.0002			
5/3/2022			<0.0002						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			<0.0002
3/30/2016			
5/17/2016			<0.0002
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.0002
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.0002
11/14/2016			<0.0002
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.0002
5/22/2017			
5/24/2017			<0.0002
6/19/2017			<0.0002
6/20/2017			
6/21/2017			
1/9/2018			<0.0002
1/10/2018			
4/16/2018			
4/19/2018			<0.0002
10/1/2018			<0.0002
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.0002		
2/25/2019			
2/27/2019		0.000302 (J)	
4/3/2019			<0.0002
5/7/2019			
9/16/2019			
9/17/2019		<0.0002	
9/18/2019	<0.0002		<0.0002
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.0002
2/26/2020	<0.0002	<0.0002	
7/22/2020			<0.0002
7/23/2020	<0.0002	<0.0002	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	0.000173 (J)	0.000249	<0.0002
9/21/2021			
9/22/2021			
9/28/2021			<0.0002
9/29/2021	0.0001 (J)	0.00017 (J)	
4/20/2022	0.00017 (J)		
4/26/2022		0.00031	<0.0002
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.0002	<0.0002							
3/29/2016			<0.0002						
5/18/2016	<0.0002	<0.0002	<0.0002						
7/11/2016		<0.0002							
7/13/2016	<0.0002		<0.0002			<0.0002			
7/14/2016							<0.0002		
8/22/2016						<0.0002	<0.0002		
9/13/2016	<0.0002					<0.0002	<0.0002		
9/14/2016		<0.0002	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.0002	<0.0002		
11/16/2016	<0.0002	<0.0002							
1/3/2017						<0.0002	<0.0002		
2/27/2017	<0.0002								
2/28/2017			<0.0002						
3/1/2017		<0.0002				<0.0002	<0.0002		
5/22/2017	<0.0002								
5/23/2017		<0.0002				<0.0002	<0.0002		
5/24/2017			<0.0002						
6/19/2017		<0.0002	<0.0002						
6/20/2017						<0.0002	<0.0002		
6/21/2017	<0.0002								
1/9/2018			<0.0002				<0.0002		
1/10/2018	<0.0002	<0.0002				<0.0002			
4/17/2018						<0.0002	<0.0002		
4/19/2018	<0.0002	<0.0002	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.0002								
10/3/2018		<0.0002							
10/4/2018						<0.0002	<0.0002		
12/5/2018								<0.0002	<0.0002
12/6/2018									
12/13/2018				<0.0002					
2/26/2019									
2/27/2019					<0.0002				
4/1/2019	<0.0002	<0.0002							
4/2/2019						<0.0002	<0.0002		
4/3/2019			<0.0002						
9/16/2019									
9/17/2019									<0.0002
9/18/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/18/2020	<0.0002								
2/19/2020								<0.0002	<0.0002
2/25/2020			<0.0002	<0.0002	<0.0002				
2/26/2020						<0.0002	<0.0002		
7/21/2020								<0.0002	<0.0002
7/22/2020			<0.0002	<0.0002	<0.0002				
7/27/2020	<0.0002								
7/28/2020						<0.0002	<0.0002		
7/29/2020									
4/5/2021	<0.0002								
4/6/2021								<0.0002	<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						<0.0002	<0.0002		
4/12/2021			0.000123 (J)	<0.0002	<0.0002				
9/21/2021								<0.0002	<0.0002
9/22/2021	<0.0002								
9/27/2021						<0.0002	<0.0002		
9/28/2021			8E-05 (J)	<0.0002	<0.0002				
4/19/2022	<0.0002				9E-05 (J)				
4/20/2022			0.00013 (J)	<0.0002				<0.0002	<0.0002
4/27/2022									
5/2/2022									
5/3/2022						<0.0002	<0.0002		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.0002	
12/6/2018	<0.0002		
12/13/2018			
2/26/2019			<0.0002
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.0002
9/17/2019			
9/18/2019	<0.0002	<0.0002	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		<0.0002	<0.0002
2/26/2020			
7/21/2020		<0.0002	
7/22/2020	<0.0002		
7/27/2020			
7/28/2020			
7/29/2020			<0.0002
4/5/2021			<0.0002
4/6/2021		<0.0002	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.0002		
4/12/2021			
9/21/2021		<0.0002	
9/22/2021	<0.0002		
9/27/2021			
9/28/2021			<0.0002
4/19/2022			
4/20/2022	<0.0002		
4/27/2022			<0.0002
5/2/2022		<0.0002	
5/3/2022			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.0002							
3/30/2016									
5/17/2016		<0.0002							
5/23/2016									
7/11/2016		<0.0002							
7/14/2016									
9/13/2016									
9/14/2016		<0.0002							
11/15/2016									
11/16/2016		<0.0002							
2/28/2017									
3/1/2017		<0.0002							
5/23/2017		<0.0002							
5/24/2017									
6/19/2017		<0.0002							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.0002							
4/17/2018									
4/19/2018		<0.0002							
10/1/2018									
10/3/2018		<0.0002							
2/26/2019	<0.0002								
4/2/2019		<0.0002							
9/17/2019	<0.0002	<0.0002							
9/18/2019									
9/26/2019	<0.0002								
10/22/2019			<0.0002						
2/18/2020									
2/19/2020		<0.0002	<0.0002				<0.0002		
2/25/2020	<0.0002					<0.0002			
2/26/2020					<0.0002				
4/29/2020				<0.0002				<0.0002	<0.0002
7/20/2020					<0.0002				<0.0002
7/21/2020						<0.0002	<0.0002	<0.0002	
7/23/2020			<0.0002						
7/27/2020		<0.0002		<0.0002					
7/28/2020									
7/29/2020	<0.0002								
3/30/2021					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/5/2021	<0.0002	<0.0002		<0.0002					
4/6/2021			<0.0002						
4/7/2021									
9/22/2021						<0.0002			<0.0002
9/27/2021		<0.0002			<0.0002				
9/28/2021	0.00015 (J)								
9/29/2021			<0.0002	<0.0002			<0.0002	<0.0002	
4/26/2022	0.00013 (J)				<0.0002	<0.0002			<0.0002
4/27/2022				<0.0002			<0.0002	<0.0002	
5/2/2022			<0.0002						
5/3/2022		<0.0002							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		<0.0002	<0.0002
5/17/2016		<0.0002	
5/23/2016			<0.0002
7/11/2016		<0.0002	
7/14/2016			<0.0002
9/13/2016			<0.0002
9/14/2016		<0.0002	
11/15/2016			<0.0002
11/16/2016		<0.0002	
2/28/2017		<0.0002	
3/1/2017			<0.0002
5/23/2017			<0.0002
5/24/2017		<0.0002	
6/19/2017			
6/20/2017			<0.0002
6/21/2017		<0.0002	
1/9/2018			<0.0002
1/10/2018		<0.0002	
4/17/2018			<0.0002
4/19/2018		<0.0002	
10/1/2018			<0.0002
10/3/2018		<0.0002	
2/26/2019			
4/2/2019		<0.0002	<0.0002
9/17/2019		<0.0002	
9/18/2019			<0.0002
9/26/2019			
10/22/2019			
2/18/2020		<0.0002	
2/19/2020			
2/25/2020			
2/26/2020			<0.0002
4/29/2020	<0.0002		
7/20/2020	<0.0002		
7/21/2020			
7/23/2020			
7/27/2020		<0.0002	
7/28/2020			<0.0002
7/29/2020			
3/30/2021	<0.0002		
4/5/2021		<0.0002	
4/6/2021			
4/7/2021			<0.0002
9/22/2021			
9/27/2021	<0.0002	<0.0002	<0.0002
9/28/2021			
9/29/2021			
4/26/2022	<0.0002		
4/27/2022			
5/2/2022		<0.0002	
5/3/2022			<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.0002						
3/30/2016	<0.0002	<0.0002							
4/4/2016				<0.0002					
5/19/2016	<0.0002	<0.0002							
5/23/2016			<0.0002	<0.0002					
7/12/2016			<0.0002	<0.0002					
7/13/2016	<0.0002	<0.0002							
9/13/2016	<0.0002	<0.0002	<0.0002	<0.0002					
11/15/2016	<0.0002	<0.0002	<0.0002	<0.0002					
2/28/2017			<0.0002	<0.0002					
3/1/2017	<0.0002	<0.0002							
5/23/2017	<0.0002	<0.0002							
5/24/2017			<0.0002	<0.0002					
6/20/2017	<0.0002	<0.0002	<0.0002	<0.0002					
1/10/2018	<0.0002	<0.0002	<0.0002	<0.0002					
4/17/2018	<0.0002	<0.0002	<0.0002	<0.0002					
10/1/2018			<0.0002	<0.0002					
10/4/2018	<0.0002	<0.0002							
4/1/2019			<0.0002	<0.0002					
4/2/2019	<0.0002	<0.0002							
9/17/2019			<0.0002	<0.0002					
9/18/2019	<0.0002	<0.0002							
2/17/2020				<0.0002					
2/25/2020			<0.0002						
2/26/2020	<0.0002	<0.0002							
7/28/2020	<0.0002	<0.0002							
7/29/2020			<0.0002	<0.0002					
4/5/2021				<0.0002					
4/6/2021			<0.0002						
4/7/2021	<0.0002	<0.0002							
4/12/2021					<0.0002	<0.0002	<0.0002	<0.0002	
4/13/2021									0.000855
9/21/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00018 (J)
9/27/2021	<0.0002	<0.0002							
4/19/2022					<0.0002	<0.0002	<0.0002	<0.0002	0.00019 (J)
5/2/2022			<0.0002	<0.0002					
5/3/2022	<0.0002	<0.0002							

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					124	79.7			
3/29/2016							43.2		77.4
3/30/2016	38.2	36.4	63.4	46.6					
5/17/2016	33.9				74.6		41.4		70.3
5/18/2016		34.7	57.5	46.1					
5/19/2016						91.5			
7/11/2016					68.9	38.1			
7/13/2016	36.7	36.4	62.9						
7/14/2016				45.6			41.9		73
7/18/2016									
8/22/2016						37.3			
9/12/2016			60.1	44.1					
9/13/2016	38.1	35.6			80.3		39.6		70.7
9/14/2016						36.5			
11/14/2016		36.2	61.4	46			41		
11/15/2016	38				102	36.8			
11/16/2016									51.7
1/3/2017						38			
2/27/2017					77.9	36.8			
2/28/2017	39.4	35.4	62.6	45			41.8		73.1
5/22/2017	37.4	34.4				36.9			
5/24/2017			62.3	44.3	72.9		39.8		70.6
6/19/2017	37.4	34.8					40.2		67.7
6/20/2017						36.9			
6/21/2017			63	44.7	80				
8/14/2017	36.4	34.6	60.6	43.5		39.5	41.3		72.8
8/15/2017					72.1				
4/16/2018	38.7	37.4	64.6						
4/19/2018				45.8	59.6	43.4	42.3		80.8
10/1/2018							41.5		102
10/2/2018	39.7								
10/4/2018		40.8	74.5						
10/5/2018				46.8	123	163			
12/17/2018									
2/25/2019								36.8	
2/27/2019									
4/3/2019	40	44.1	67.8	46.9	63.1	209	45.7		116
5/7/2019						175			
9/16/2019	39.1	40.2	69.5				61.3	38.7	
9/17/2019				48.3	74.9				131
9/18/2019						139			
2/17/2020	39.7	41							
2/18/2020			73.1						
2/19/2020				46.7	69.9				
2/25/2020						120	50	38.8	
2/26/2020									102
7/22/2020	38.5	39							
7/23/2020					88.6				
7/27/2020			65.7	45.5					
7/28/2020						102	48.1	38.6	
7/29/2020									103
4/5/2021	40	40.1	64.8				57.6	40.4	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				43.8	78.2	98.6			159
9/21/2021	38.4	40.9							
9/22/2021			67.3	46.6	80				
9/28/2021						92.5	65.3	42.3	
9/29/2021									177
4/20/2022									240
4/26/2022									
4/27/2022					85.3		74.9	49.3	
5/2/2022	37.8	43.4		44.1		93.2			
5/3/2022			65.3						

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			104
3/30/2016			
5/17/2016			110
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			109
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			101
11/14/2016			105
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			108
5/22/2017			
5/24/2017			102
6/19/2017			107
6/20/2017			
6/21/2017			
8/14/2017			105
8/15/2017			
4/16/2018			
4/19/2018			113
10/1/2018			123
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	79.5		
2/25/2019			
2/27/2019		55.8	
4/3/2019			139
5/7/2019			
9/16/2019			
9/17/2019		94	
9/18/2019	101		126
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			119
2/26/2020	87.1	66.6	
7/22/2020			117
7/23/2020	87	62	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	99.9	72.8	121
9/21/2021			
9/22/2021			
9/28/2021			122
9/29/2021	103	71.5	
4/20/2022	140		
4/26/2022		104	149
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	46	34.2							
3/29/2016			163						
5/18/2016	42.9	32.6	160						
7/11/2016		32.5							
7/13/2016	43.1		158			66.6			
7/14/2016							61.5		
8/22/2016						52.8	71.3		
9/13/2016	44.1					68	70.3		
9/14/2016		32.1	156						
11/14/2016			156						
11/15/2016						75.2	69		
11/16/2016	42.7	33.4							
1/3/2017						80.9	77.4		
2/27/2017	43.1								
2/28/2017			150						
3/1/2017		33.3				58	77.4		
5/22/2017	41.9								
5/23/2017		32.7				56.3	76.6		
5/24/2017			150						
6/19/2017		32.6	153						
6/20/2017						56.8	83.6		
6/21/2017	41.8								
8/14/2017	43		159						
8/15/2017		31.5				54.5	81.8		
4/17/2018						64.5	94.1		
4/19/2018	43.2	34.2	192						
10/1/2018			184						
10/2/2018	43.8								
10/3/2018		38.6							
10/4/2018						102	99.5		
12/5/2018								31.2	72.5
12/6/2018									
12/13/2018				117					
2/26/2019									
2/27/2019					115				
4/1/2019	45.6	35.8							
4/2/2019						61.1	134		
4/3/2019			206						
9/16/2019									
9/17/2019									66.8
9/18/2019	45.6	35	172	128	124	98.3	102	41.9	
2/18/2020	45.5								
2/19/2020								61.5	73.5
2/25/2020			178	123	124				
2/26/2020						95.5	95.9		
7/21/2020								37.8	64.2
7/22/2020			161	132	119				
7/27/2020	42.6								
7/28/2020						80.8	92.3		
7/29/2020									
4/5/2021	42.6								
4/6/2021								34.3	55.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						72.7	79.7		
4/12/2021			161	132	121				
9/21/2021								51.9	48.9
9/22/2021	42.1								
9/27/2021						73.4	77.7		
9/28/2021			170	135	127				
4/19/2022	45.6				130				
4/20/2022			182	136				34.4	62.9
4/27/2022									
5/2/2022									
5/3/2022						73	64		

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
8/14/2017			
8/15/2017			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		55.9	
12/6/2018	71.2		
12/13/2018			
2/26/2019			41
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			46.7
9/17/2019			
9/18/2019	81.8	81.7	
2/18/2020			
2/19/2020	73.7		
2/25/2020		31.5	42.6
2/26/2020			
7/21/2020		54.3	
7/22/2020	67.7		
7/27/2020			
7/28/2020			
7/29/2020			39.6
4/5/2021			39.9
4/6/2021		25.9	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	69.3		
4/12/2021			
9/21/2021		22.3	
9/22/2021	68		
9/27/2021			
9/28/2021			39.7
4/19/2022			
4/20/2022	73.2		
4/27/2022			44.4
5/2/2022		27.8	
5/3/2022			

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		31.6							
3/30/2016									
5/17/2016		29.6							
5/23/2016									
7/11/2016		30							
7/14/2016									
9/13/2016									
9/14/2016		30.6							
11/15/2016									
11/16/2016		30.4							
2/28/2017									
3/1/2017		<0.5 (o)							
5/23/2017		30.1							
5/24/2017									
6/19/2017		29.9							
6/20/2017									
6/21/2017									
8/15/2017		28.1							
4/17/2018									
4/19/2018		31.2							
10/1/2018									
10/3/2018		32.3							
2/26/2019	45								
4/2/2019		31.6							
9/17/2019	48.5	31.7							
9/18/2019									
9/26/2019	45.4								
10/22/2019			89.1						
2/18/2020									
2/19/2020		32.3	83.8				124		
2/25/2020	46.8					56.6			
2/26/2020					43.5				
4/29/2020				56.5				50	39.1
7/20/2020					69.3				43.3
7/21/2020						46.8	121	43.7	
7/23/2020			79.1						
7/27/2020		31		41.5					
7/28/2020									
7/29/2020	43.9								
3/30/2021					60.5	45.8	122	38.8	33.7
4/5/2021	44.7	30.6		33.1					
4/6/2021			78						
4/7/2021									
9/22/2021						40.4			30.3
9/27/2021		30.7			59.6				
9/28/2021	46.9								
9/29/2021			78.8	30.2			118	37.6	
4/26/2022	50.9				68.6	61.6			27.9
4/27/2022				39.7			157	54.7	
5/2/2022			78.8						
5/3/2022		29.9							

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		53.6	68.3
5/17/2016		50.5	
5/23/2016			63.1
7/11/2016		56.5	
7/14/2016			67.7
9/13/2016			67.8
9/14/2016		58	
11/15/2016			68.4
11/16/2016		61.8	
2/28/2017		56.8	
3/1/2017			71.8
5/23/2017			70.6
5/24/2017		55.5	
6/19/2017			
6/20/2017			73.8
6/21/2017		51	
8/15/2017		48.9	65.7
4/17/2018			90
4/19/2018		56.5	
10/1/2018			79.6
10/3/2018		73.5	
2/26/2019			
4/2/2019		56.9	69.8
9/17/2019		69.3	
9/18/2019			79.9
9/26/2019			
10/22/2019			
2/18/2020		55.8	
2/19/2020			
2/25/2020			
2/26/2020			46.8
4/29/2020	44.9		
7/20/2020	40.6		
7/21/2020			
7/23/2020			
7/27/2020		57	
7/28/2020			67.8
7/29/2020			
3/30/2021	40.1		
4/5/2021		52.2	
4/6/2021			
4/7/2021			53.3
9/22/2021			
9/27/2021	40.1	54.4	53.1
9/28/2021			
9/29/2021			
4/26/2022	49.4		
4/27/2022			
5/2/2022		56.8	
5/3/2022			56.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			58.2						
3/30/2016	75.7	96.4							
4/4/2016				32.3					
5/19/2016	69.7	84.5							
5/23/2016			52.1	31.3					
7/12/2016			53.6	31.6					
7/13/2016	62.7	84							
9/13/2016	48.3	58.2	53	31.2					
11/15/2016	51.8	87.9	51.5	31.5					
2/28/2017			51.4	29.7					
3/1/2017	58.4	96.8							
5/23/2017	54.8	88							
5/24/2017			50.8	30.4					
6/20/2017	67.9	87.5	49.8	30.8					
8/15/2017	52.5	89.4	51.6						
8/16/2017				30.5					
4/17/2018	77.1	100	52.2	32.9					
10/1/2018			50.8	32.4					
10/4/2018	61.2	106							
4/1/2019			50.5	32.3					
4/2/2019	80.1	115							
9/17/2019			54.5	32.7					
9/18/2019	83.9	99.1							
2/17/2020				33.2					
2/25/2020			54.7						
2/26/2020	83.1	95.8							
7/28/2020	82.5	84.9							
7/29/2020			49.4	32.4					
4/5/2021				31.7					
4/6/2021			51.1						
4/7/2021	75.5	86.8							
4/12/2021					35	22.9	26.6	23.2	
4/13/2021									11.7
9/21/2021			51.4	31.5	36.1	21.6	31.7	22.3	15.4
9/27/2021	69.2	76.2							
4/19/2022					36.4	21.6	29.4	23.3	11
5/2/2022			52.4	30.9					
5/3/2022	68.8	69							

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					2.11	21.9			
3/29/2016							10.8		14.7
3/30/2016	4.59	6.36	21.4	4.69					
5/17/2016	3.94				2.38		10		13.8
5/18/2016		5.93	19.6	4.35					
5/19/2016						20.9			
7/11/2016					2.42	23			
7/13/2016	3.32	5.93	19.6						
7/14/2016				4.33			10.1		13.8
7/18/2016									
8/22/2016						23.3			
9/12/2016			19.7	4.4					
9/13/2016	2.91	5.92			2.34		10.4		14.1
9/14/2016						23.6			
11/14/2016		5.95	19.7	4.76			10.4		
11/15/2016	2.75				2.55	23.8			
11/16/2016									14.2
1/3/2017						24.1			
2/27/2017					5.8	27			
2/28/2017	3.2	6.7	22	6.1			12		17
5/22/2017	3.7	7.1				28			
5/24/2017			22	5.4	5.9		12		17
6/19/2017	3.7	6.2					11		16
6/20/2017						27			
6/21/2017			21	5.2	3.6				
8/14/2017	3.1	6.7	21	5.6		27	12		17
8/15/2017					4.9				
4/16/2018	3.3	6.2	20						
4/19/2018				4.6	6.5	32	12		21
10/1/2018							14		30
10/2/2018	2.6								
10/4/2018		6.9	21						
10/5/2018				5.1	3.5	120			
12/17/2018									
2/25/2019								16.4	
2/27/2019									
4/3/2019	2.7	6.35	19.7	4.85	5.72	156	15.9		38
5/7/2019						180			
9/16/2019	2.54	6.49	19.8				20.4	23.5	
9/17/2019				4.83	4.16				43.2
9/18/2019						142			
2/17/2020	2.61	6.66							
2/18/2020			19.6						
2/19/2020				5.02	4.9				
2/25/2020						138	17.7	25.1	
2/26/2020									27.7
7/22/2020	2.53	6.75							
7/23/2020					3.1				
7/27/2020			19.8	5.2					
7/28/2020						110	17.4	20.7	
7/29/2020									26.5
4/5/2021	3.88	7.09	19.7				19.8	19.8	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				5.06	3.37	105			52.8
9/21/2021	3.39	7.14							
9/22/2021			19.7	4.8	3.5				
9/28/2021						98.3	28.9	23.3	
9/29/2021									94.3
4/20/2022									186
4/26/2022									
4/27/2022					4.1		35.8	30.8	
5/2/2022	3.2	6.86		4.32		79.9			
5/3/2022			18.9						

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			11.1
3/30/2016			
5/17/2016			10.3
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			10.3
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			10.3
11/14/2016			10.3
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			12
5/22/2017			
5/24/2017			13
6/19/2017			12
6/20/2017			
6/21/2017			
8/14/2017			12
8/15/2017			
4/16/2018			
4/19/2018			12
10/1/2018			13
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	22		
2/25/2019			
2/27/2019		23.8	
4/3/2019			12.1
5/7/2019			
9/16/2019			
9/17/2019		30.8	
9/18/2019	29.6		12.2
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			12.2
2/26/2020	28.8	27.2	
7/22/2020			12.3
7/23/2020	27.9	27	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	34.4	34.5	12.4
9/21/2021			
9/22/2021			
9/28/2021			13.2
9/29/2021	41.9	39.2	
4/20/2022	59.6		
4/26/2022		71.5	13.5
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	9.86	1.73							
3/29/2016			17.2						
5/18/2016	9.4	1.4	16.2						
7/11/2016		1.73							
7/13/2016	10.3		16.2			34.8			
7/14/2016							26.9		
8/22/2016						25.1	37.6		
9/13/2016	9.68					34.1	30		
9/14/2016		2.24	16.2						
11/14/2016			16.1						
11/15/2016						40.1	22.7		
11/16/2016	10.2	3.57							
1/3/2017						38.5	26.5		
2/27/2017	12								
2/28/2017			18						
3/1/2017		3.4				23	56		
5/22/2017	12								
5/23/2017		2.4				21	48		
5/24/2017			18						
6/19/2017		1.9 (J)	18						
6/20/2017						22	58		
6/21/2017	12								
8/14/2017	12		18						
8/15/2017		5.4				21	61		
4/17/2018						29	61		
4/19/2018	11	1.8 (J)	17						
10/1/2018			19						
10/2/2018	<2								
10/3/2018		<2							
10/4/2018						58	61		
12/5/2018								69	57
12/6/2018									
1/2/2019				13					
2/26/2019									
2/27/2019					16.5				
4/1/2019	11.9	1.36							
4/2/2019						27	67.3		
4/3/2019			17.9						
9/16/2019									
9/17/2019									44.7
9/18/2019	11.6	1.53	18.7	14.7	15.9	64	46.3	60.7	
2/18/2020	11.4								
2/19/2020								64	42
2/25/2020			19	17.8	16.4				
2/26/2020						56.3	62.2		
7/21/2020								65.3	45
7/22/2020			19.3	23.1	18.5				
7/27/2020	12.1								
7/28/2020						47	66.1		
7/29/2020									
4/5/2021	12.6								
4/6/2021								58.7	30.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						44.8	38.9		
4/12/2021			19.8	19.2	24.4				
9/21/2021								55	20.6
9/22/2021	12.8								
9/27/2021						40.1	28.6		
9/28/2021			20	18	23.4				
4/19/2022	13.7				21.95 (D)				
4/20/2022			19.9	18				56.9	23.8
4/27/2022									
5/2/2022									
5/3/2022						30.6	14.8		

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
8/14/2017			
8/15/2017			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		56	
12/6/2018	43		
1/2/2019			
2/26/2019			12.7
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			15.6
9/17/2019			
9/18/2019	41.5	56.7	
2/18/2020			
2/19/2020	43.2		
2/25/2020		22.1	16.9
2/26/2020			
7/21/2020		35	
7/22/2020	37		
7/27/2020			
7/28/2020			
7/29/2020			17.5
4/5/2021			17.2
4/6/2021		17.4	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	40.3		
4/12/2021			
9/21/2021		13	
9/22/2021	29.7		
9/27/2021			
9/28/2021			18.3
4/19/2022			
4/20/2022	22.3		
4/27/2022			19.8
5/2/2022		13	
5/3/2022			

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		2.48							
3/30/2016									
5/17/2016		1.9							
5/23/2016									
7/11/2016		1.93							
7/14/2016									
9/13/2016									
9/14/2016		1.77							
11/15/2016									
11/16/2016		1.98							
2/28/2017									
3/1/2017		2.3							
5/23/2017		2.2							
5/24/2017									
6/19/2017		1.7 (J)							
6/20/2017									
6/21/2017									
8/15/2017		2.1							
4/17/2018									
4/19/2018		1.7 (J)							
10/1/2018									
10/3/2018		1.7 (J)							
2/26/2019	16.4								
4/2/2019		1.65							
9/17/2019	20.5	1.93							
9/18/2019									
9/26/2019	21.5								
10/22/2019			32.3						
2/18/2020									
2/19/2020		1.81	31.5				17.5		
2/25/2020	25.5					29.2			
2/26/2020					20.1				
4/29/2020				25.4				5.78	145
7/20/2020					43.1				209
7/21/2020						27.7	18.1	8.95	
7/23/2020			30.4						
7/27/2020		1.83		33					
7/28/2020									
7/29/2020	25.5								
3/30/2021					45.3	27	19	11.3	195
4/5/2021	25.2	1.91		30.6					
4/6/2021			34.4						
4/7/2021									
9/22/2021						21.6			168
9/27/2021		1.9			38.1				
9/28/2021	26.8								
9/29/2021			31.9	29.9			19.7	11.3	
4/26/2022	29.6				35.9	18.8			137
4/27/2022				22.8			19	8.01	
5/2/2022			31.7						
5/3/2022		1.67							

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		12.9	31.9
5/17/2016		12	
5/23/2016			29.4
7/11/2016		20.3	
7/14/2016			29.5
9/13/2016			30.8
9/14/2016		27.3	
11/15/2016			30.7
11/16/2016		37.1	
2/28/2017		27	
3/1/2017			40
5/23/2017			40
5/24/2017		28	
6/19/2017			
6/20/2017			44
6/21/2017		20	
8/15/2017		17	36
4/17/2018			63
4/19/2018		21	
10/1/2018			49
10/3/2018		21	
2/26/2019			
4/2/2019		18.3	39.9
9/17/2019		37.5	
9/18/2019			42.8
9/26/2019			
10/22/2019			
2/18/2020		19.6	
2/19/2020			
2/25/2020			
2/26/2020			17.5
4/29/2020	12.9		
7/20/2020	12.4		
7/21/2020			
7/23/2020			
7/27/2020		20.2	
7/28/2020			44.2
7/29/2020			
3/30/2021	13.1		
4/5/2021		12.8	
4/6/2021			
4/7/2021			18.8
9/22/2021			
9/27/2021	13.6	11	14.6
9/28/2021			
9/29/2021			
4/26/2022	14.1		
4/27/2022			
5/2/2022		8.75	
5/3/2022			12.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			5.14						
3/30/2016	30.8	16.9							
4/4/2016				5.89					
5/19/2016	28.7	14.9							
5/23/2016			5.03	5.2					
7/12/2016			4.66	5.71					
7/13/2016	24.8	12.6							
9/13/2016	21.7	8.09	3.98	5.88					
11/15/2016	25.9	14.3	3.71	6.04					
2/28/2017			5.2	8.6					
3/1/2017	29	18							
5/23/2017	28	19							
5/24/2017			5.4	9.3					
6/20/2017	40	18	5	7.8					
8/15/2017	32	18	4.6						
8/16/2017				7.6					
4/17/2018	52	16	3.6	7.5					
10/1/2018			3.9	8.9					
10/4/2018	50	25							
4/1/2019			3.9	8.42					
4/2/2019	66	15.7							
9/17/2019			3.96	8.59					
9/18/2019	65.3	29.5							
2/17/2020				8.74					
2/25/2020			3.81						
2/26/2020	69.7	28							
7/28/2020	64.2	22.3							
7/29/2020			3.77	8.93					
4/5/2021				9.25					
4/6/2021			3.9						
4/7/2021	45.5	22.4							
4/12/2021					2.91	4.13	3.05	5.88	
4/13/2021									4.18
9/21/2021			3.8	9.17	2.94	2.19	2.78	6.09	3.99
9/27/2021	45.3	16.5							
4/19/2022					2.22	2.03	2.71	5.24	3.8
5/2/2022			3.33	8.5					
5/3/2022	26.9	12.6							

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.00577 (J)	<0.00102			
3/29/2016							<0.00102		<0.00102
3/30/2016	<0.00102	<0.00102	<0.00102	<0.00102					
5/17/2016	<0.00102				<0.00102		<0.00102		<0.00102
5/18/2016		<0.00102	<0.00102	<0.00102					
5/19/2016						<0.00102			
7/11/2016					<0.00102	<0.00102			
7/13/2016	<0.00102	<0.00102	<0.00102						
7/14/2016				<0.00102			<0.00102		<0.00102
7/18/2016									
8/22/2016						<0.00102			
9/12/2016			<0.00102	<0.00102					
9/13/2016	<0.00102	<0.00102			<0.00102		<0.00102		<0.00102
9/14/2016						<0.00102			
11/14/2016		<0.00102	<0.00102	<0.00102			<0.00102		
11/15/2016	<0.00102				<0.00102	<0.00102			
11/16/2016									<0.00102
1/3/2017						<0.00102			
2/27/2017					<0.00102	<0.00102			
2/28/2017	<0.00102	<0.00102	<0.00102	<0.00102			<0.00102		<0.00102
5/22/2017	<0.00102	<0.00102				<0.00102			
5/24/2017			<0.00102	<0.00102	<0.00102		<0.00102		<0.00102
6/19/2017	<0.00102	<0.00102					<0.00102		<0.00102
6/20/2017						<0.00102			
6/21/2017			<0.00102	<0.00102	<0.00102				
1/9/2018		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
1/10/2018	<0.00102								
4/16/2018	<0.00102	<0.00102	<0.00102						
4/19/2018				<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
10/1/2018							<0.00102		<0.00102
10/2/2018	<0.00102								
10/4/2018		<0.00102	<0.00102						
10/5/2018				<0.00102	<0.00102	<0.00102			
12/17/2018									
2/25/2019								<0.00102	
2/27/2019									
4/3/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
5/7/2019						<0.00102			
9/16/2019	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	
9/17/2019				<0.00102	<0.00102				<0.00102
9/18/2019						<0.00102			
2/17/2020	<0.00102	<0.00102							
2/18/2020			<0.00102						
2/19/2020				<0.00102	<0.00102				
2/25/2020						<0.00102	<0.00102	<0.00102	
2/26/2020									<0.00102
7/22/2020	<0.00102	<0.00102							
7/23/2020					<0.00102				
7/27/2020			<0.00102	<0.00102					
7/28/2020						<0.00102	<0.00102	<0.00102	
7/29/2020									<0.00102
4/5/2021	0.000275 (J)	0.000743 (J)	0.000278 (J)				0.000319 (J)	0.00044 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				0.000353 (J)	0.000234 (J)	0.000777 (J)			0.000347 (J)
9/21/2021	0.00025 (J)	0.00092 (J)							
9/22/2021			0.00039 (J)	0.00032 (J)	0.0003 (J)				
9/28/2021						0.00031 (J)	0.00032 (J)	0.00033 (J)	
9/29/2021									0.00028 (J)
4/20/2022									0.00037 (J)
4/26/2022									
4/27/2022					0.00025 (J)		0.00021 (J)	0.00025 (J)	
5/2/2022	0.00026 (J)	0.00065 (J)		0.00027 (J)		0.00027 (J)			
5/3/2022			<0.00102						

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			<0.00102
3/30/2016			
5/17/2016			<0.00102
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.00102
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.00102
11/14/2016			<0.00102
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.00102
5/22/2017			
5/24/2017			<0.00102
6/19/2017			<0.00102
6/20/2017			
6/21/2017			
1/9/2018			<0.00102
1/10/2018			
4/16/2018			
4/19/2018			<0.00102
10/1/2018			<0.00102
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.00102		
2/25/2019			
2/27/2019		<0.00102	
4/3/2019			<0.00102
5/7/2019			
9/16/2019			
9/17/2019		<0.00102	
9/18/2019	<0.00102		<0.00102
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.00102
2/26/2020	<0.00102	<0.00102	
7/22/2020			<0.00102
7/23/2020	<0.00102	<0.00102	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	0.000346 (J)	0.000443 (J)	0.000334 (J)
9/21/2021			
9/22/2021			
9/28/2021			0.00029 (J)
9/29/2021	0.00027 (J)	0.00033 (J)	
4/20/2022	0.00027 (J)		
4/26/2022		0.00024 (J)	0.00024 (J)
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.00102	<0.00102							
3/29/2016			<0.00102						
5/18/2016	<0.00102	<0.00102	<0.00102						
7/11/2016		<0.00102							
7/13/2016	<0.00102		<0.00102			<0.00102			
7/14/2016							<0.00102		
8/22/2016						<0.00102	<0.00102		
9/13/2016	<0.00102					<0.00102	<0.00102		
9/14/2016		<0.00102	<0.00102						
11/14/2016			<0.00102						
11/15/2016						<0.00102	<0.00102		
11/16/2016	<0.00102	<0.00102							
1/3/2017						<0.00102	<0.00102		
2/27/2017	<0.00102								
2/28/2017			<0.00102						
3/1/2017		<0.00102				<0.00102	<0.00102		
5/22/2017	<0.00102								
5/23/2017		<0.00102				<0.00102	<0.00102		
5/24/2017			<0.00102						
6/19/2017		<0.00102	<0.00102						
6/20/2017						<0.00102	<0.00102		
6/21/2017	<0.00102								
1/9/2018			<0.00102				<0.00102		
1/10/2018	<0.00102	<0.00102				<0.00102			
4/17/2018						<0.00102	<0.00102		
4/19/2018	<0.00102	<0.00102	<0.00102						
10/1/2018			<0.00102						
10/2/2018	<0.00102								
10/3/2018		<0.00102							
10/4/2018						<0.00102	<0.00102		
12/5/2018								<0.00102	<0.00102
12/6/2018									
12/13/2018				<0.00102					
2/26/2019									
2/27/2019					<0.00102				
4/1/2019	<0.00102	<0.00102							
4/2/2019						<0.00102	<0.00102		
4/3/2019			<0.00102						
9/16/2019									
9/17/2019									<0.00102
9/18/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
2/18/2020	<0.00102								
2/19/2020								<0.00102	<0.00102
2/25/2020			<0.00102	<0.00102	<0.00102				
2/26/2020						<0.00102	<0.00102		
7/21/2020								<0.00102	<0.00102
7/22/2020			<0.00102	<0.00102	<0.00102				
7/27/2020	<0.00102								
7/28/2020						<0.00102	<0.00102		
7/29/2020									
4/5/2021	0.000316 (J)								
4/6/2021								0.000305 (J)	0.000261 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						0.00032 (J)	0.000307 (J)		
4/12/2021			0.00038 (J)	0.000305 (J)	0.000634 (J)				
9/21/2021								0.00043 (J)	0.00031 (J)
9/22/2021	0.00024 (J)								
9/27/2021						0.00037 (J)	0.00031 (J)		
9/28/2021			0.00029 (J)	0.0003 (J)	0.00155				
4/19/2022	0.0003 (J)				0.00174				
4/20/2022			0.00186	0.00024 (J)				0.00029 (J)	0.00026 (J)
4/27/2022									
5/2/2022									
5/3/2022						<0.00102	0.00026 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.00102	
12/6/2018	<0.00102		
12/13/2018			
2/26/2019			<0.00102
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.00102
9/17/2019			
9/18/2019	<0.00102	<0.00102	
2/18/2020			
2/19/2020	<0.00102		
2/25/2020		<0.00102	<0.00102
2/26/2020			
7/21/2020		<0.00102	
7/22/2020	<0.00102		
7/27/2020			
7/28/2020			
7/29/2020			<0.00102
4/5/2021			0.000648 (J)
4/6/2021		0.000362 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	0.0003 (J)		
4/12/2021			
9/21/2021		0.00027 (J)	
9/22/2021	0.00033 (J)		
9/27/2021			
9/28/2021			0.00032 (J)
4/19/2022			
4/20/2022	0.00038 (J)		
4/27/2022			0.00036 (J)
5/2/2022		0.00027 (J)	
5/3/2022			

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.00102							
3/30/2016									
5/17/2016		<0.00102							
5/23/2016									
7/11/2016		<0.00102							
7/14/2016									
9/13/2016									
9/14/2016		<0.00102							
11/15/2016									
11/16/2016		<0.00102							
2/28/2017									
3/1/2017		<0.00102							
5/23/2017		<0.00102							
5/24/2017									
6/19/2017		<0.00102							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.00102							
4/17/2018									
4/19/2018		<0.00102							
10/1/2018									
10/3/2018		<0.00102							
2/26/2019	<0.00102								
4/2/2019		<0.00102							
9/17/2019	<0.00102	<0.00102							
9/18/2019									
9/26/2019	<0.00102								
10/22/2019			<0.00102						
2/18/2020									
2/19/2020		<0.00102	<0.00102				<0.00102		
2/25/2020	<0.00102					<0.00102			
2/26/2020					<0.00102				
4/29/2020				<0.00102				<0.00102	<0.00102
7/20/2020					<0.00102				<0.00102
7/21/2020						<0.00102	<0.00102	<0.00102	
7/23/2020			<0.00102						
7/27/2020		<0.00102		<0.00102					
7/28/2020									
7/29/2020	<0.00102								
3/30/2021					0.000277 (J)	0.000264 (J)	0.000281 (J)	0.000237 (J)	0.000287 (J)
4/5/2021	0.000293 (J)	0.00065 (J)		0.000397 (J)					
4/6/2021			0.000317 (J)						
4/7/2021									
9/22/2021						0.00023 (J)			0.00029 (J)
9/27/2021		0.0005 (J)			0.00029 (J)				
9/28/2021	0.00033 (J)								
9/29/2021			0.00038 (J)	0.00026 (J)			0.00032 (J)	0.00023 (J)	
4/26/2022	0.00024 (J)				0.0002 (J)	0.00032 (J)			<0.00102
4/27/2022				<0.00102			<0.00102	<0.00102	
5/2/2022			0.00021 (J)						
5/3/2022		0.00044 (J)							

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		0.00322 (J)	<0.00102
5/17/2016		<0.00102	
5/23/2016			<0.00102
7/11/2016		<0.00102	
7/14/2016			<0.00102
9/13/2016			<0.00102
9/14/2016		<0.00102	
11/15/2016			<0.00102
11/16/2016		<0.00102	
2/28/2017		<0.00102	
3/1/2017			<0.00102
5/23/2017			<0.00102
5/24/2017		<0.00102	
6/19/2017			
6/20/2017			<0.00102
6/21/2017		<0.00102	
1/9/2018			<0.00102
1/10/2018		<0.00102	
4/17/2018			<0.00102
4/19/2018		<0.00102	
10/1/2018			<0.00102
10/3/2018		<0.00102	
2/26/2019			
4/2/2019		<0.00102	<0.00102
9/17/2019		<0.00102	
9/18/2019			<0.00102
9/26/2019			
10/22/2019			
2/18/2020		<0.00102	
2/19/2020			
2/25/2020			
2/26/2020			<0.00102
4/29/2020	<0.00102		
7/20/2020	<0.00102		
7/21/2020			
7/23/2020			
7/27/2020		<0.00102	
7/28/2020			<0.00102
7/29/2020			
3/30/2021	0.000245 (J)		
4/5/2021		0.000909 (J)	
4/6/2021			
4/7/2021			0.000278 (J)
9/22/2021			
9/27/2021	0.00038 (J)	0.00082 (J)	0.00036 (J)
9/28/2021			
9/29/2021			
4/26/2022	<0.00102		
4/27/2022			
5/2/2022		0.00074 (J)	
5/3/2022			0.00033 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.00102						
3/30/2016	<0.00102	<0.00102							
4/4/2016				<0.00102					
5/19/2016	<0.00102	<0.00102							
5/23/2016			<0.00102	<0.00102					
7/12/2016			<0.00102	<0.00102					
7/13/2016	<0.00102	<0.00102							
9/13/2016	<0.00102	<0.00102	<0.00102	<0.00102					
11/15/2016	<0.00102	<0.00102	<0.00102	<0.00102					
2/28/2017			<0.00102	<0.00102					
3/1/2017	<0.00102	<0.00102							
5/23/2017	<0.00102	<0.00102							
5/24/2017			<0.00102	<0.00102					
6/20/2017	<0.00102	<0.00102	<0.00102	<0.00102					
1/10/2018	<0.00102	<0.00102	0.00395 (J)	<0.00102					
4/17/2018	<0.00102	<0.00102	<0.00102	<0.00102					
10/1/2018			<0.00102	<0.00102					
10/4/2018	<0.00102	<0.00102							
4/1/2019			<0.00102	<0.00102					
4/2/2019	<0.00102	<0.00102							
9/17/2019			<0.00102	<0.00102					
9/18/2019	<0.00102	<0.00102							
2/17/2020				<0.00102					
2/25/2020			<0.00102						
2/26/2020	<0.00102	<0.00102							
7/28/2020	<0.00102	<0.00102							
7/29/2020			<0.00102	<0.00102					
4/5/2021				0.000295 (J)					
4/6/2021			0.000333 (J)						
4/7/2021	0.000259 (J)	0.000506 (J)							
4/12/2021					0.000345 (J)	0.000871 (J)	0.000441 (J)	0.000599 (J)	
4/13/2021									0.000307 (J)
9/21/2021			0.00031 (J)	0.00032 (J)	0.00033 (J)	0.00113	0.00045 (J)	0.00079 (J)	0.0005 (J)
9/27/2021	0.00035 (J)	0.00037 (J)							
4/19/2022					0.0003 (J)	0.00106	0.00048 (J)	0.00066 (J)	0.00048 (J)
5/2/2022			0.00031 (J)	0.00029 (J)					
5/3/2022	0.0003 (J)	0.00035 (J)							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.00969 (J)	0.00396 (J)			
3/29/2016							<0.0002		<0.0002
3/30/2016	<0.0002	<0.0002	<0.0002	<0.0002					
5/17/2016	<0.0002				<0.0002		<0.0002		<0.0002
5/18/2016		<0.0002	<0.0002	<0.0002					
5/19/2016						0.00207 (J)			
7/11/2016					<0.0002	<0.0002			
7/13/2016	<0.0002	<0.0002	<0.0002						
7/14/2016				<0.0002			<0.0002		<0.0002
7/18/2016									
8/22/2016						<0.0002			
9/12/2016			<0.0002	<0.0002					
9/13/2016	<0.0002	<0.0002			<0.0002		<0.0002		<0.0002
9/14/2016						<0.0002			
11/14/2016		<0.0002	<0.0002	<0.0002			<0.0002		
11/15/2016	<0.0002				<0.0002	<0.0002			
11/16/2016									<0.0002
1/3/2017						<0.0002			
2/27/2017					<0.0002	<0.0002			
2/28/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002		<0.0002
5/22/2017	<0.0002	<0.0002				<0.0002			
5/24/2017			<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
6/19/2017	<0.0002	<0.0002					<0.0002		<0.0002
6/20/2017						<0.0002			
6/21/2017			<0.0002	<0.0002	<0.0002				
1/9/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/10/2018	<0.0002								
4/16/2018	<0.0002	<0.0002	<0.0002						
4/19/2018				<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/1/2018							<0.0002		<0.0002
10/2/2018	<0.0002								
10/4/2018		<0.0002	<0.0002						
10/5/2018				<0.0002	<0.0002	<0.0002			
12/17/2018									
2/25/2019								<0.0002	
2/27/2019									
4/3/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
5/7/2019						<0.0002			
9/16/2019	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	
9/17/2019				<0.0002	<0.0002				<0.0002
9/18/2019						<0.0002			
2/17/2020	<0.0002	<0.0002							
2/18/2020			<0.0002						
2/19/2020				<0.0002	<0.0002				
2/25/2020						<0.0002	<0.0002	<0.0002	
2/26/2020									<0.0002
7/22/2020	<0.0002	<0.0002							
7/23/2020					<0.0002				
7/27/2020			<0.0002	<0.0002					
7/28/2020						<0.0002	<0.0002	<0.0002	
7/29/2020									<0.0002
4/5/2021	<0.0002	<0.0002	0.000113 (J)				0.000679	0.000888	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				0.000142 (J)	<0.0002	0.000352			<0.0002
9/21/2021	<0.0002	<0.0002							
9/22/2021			0.00016 (J)	<0.0002	<0.0002				
9/28/2021						0.0004	0.00095	0.00087	
9/29/2021									<0.0002
4/20/2022									<0.0002
4/26/2022									
4/27/2022					<0.0002		0.0007	0.00099	
5/2/2022	<0.0002	<0.0002		0.00014 (J)		0.00027			
5/3/2022			0.00022						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			<0.0002
3/30/2016			
5/17/2016			<0.0002
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.0002
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.0002
11/14/2016			<0.0002
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.0002
5/22/2017			
5/24/2017			<0.0002
6/19/2017			<0.0002
6/20/2017			
6/21/2017			
1/9/2018			<0.0002
1/10/2018			
4/16/2018			
4/19/2018			<0.0002
10/1/2018			<0.0002
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.00461 (J)		
2/25/2019			
2/27/2019		<0.0002	
4/3/2019			<0.0002
5/7/2019			
9/16/2019			
9/17/2019		<0.0002	
9/18/2019	0.00327 (J)		<0.0002
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.0002
2/26/2020	0.00265 (J)	<0.0002	
7/22/2020			<0.0002
7/23/2020	0.00251 (J)	<0.0002	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	0.00202	0.0001 (J)	0.000633
9/21/2021			
9/22/2021			
9/28/2021			0.00132
9/29/2021	0.00206	<0.0002	
4/20/2022	0.00247		
4/26/2022		7E-05 (J)	0.0016
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.0002	<0.0002							
3/29/2016			<0.0002						
5/18/2016	<0.0002	<0.0002	<0.0002						
7/11/2016		<0.0002							
7/13/2016	<0.0002		<0.0002			<0.0002			
7/14/2016							<0.0002		
8/22/2016						<0.0002	<0.0002		
9/13/2016	<0.0002					<0.0002	<0.0002		
9/14/2016		<0.0002	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.0002	<0.0002		
11/16/2016	<0.0002	<0.0002							
1/3/2017						<0.0002	<0.0002		
2/27/2017	<0.0002								
2/28/2017			<0.0002						
3/1/2017		<0.0002				<0.0002	<0.0002		
5/22/2017	<0.0002								
5/23/2017		<0.0002				<0.0002	<0.0002		
5/24/2017			<0.0002						
6/19/2017		<0.0002	<0.0002						
6/20/2017						<0.0002	<0.0002		
6/21/2017	<0.0002								
1/9/2018			<0.0002				<0.0002		
1/10/2018	<0.0002	<0.0002				<0.0002			
4/17/2018						<0.0002	<0.0002		
4/19/2018	<0.0002	<0.0002	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.0002								
10/3/2018		<0.0002							
10/4/2018						<0.0002	<0.0002		
12/5/2018								<0.0002	<0.0002
12/6/2018									
12/13/2018				0.00427 (J)					
2/26/2019									
2/27/2019					<0.0002				
4/1/2019	<0.0002	<0.0002							
4/2/2019						<0.0002	<0.0002		
4/3/2019			<0.0002						
9/16/2019									
9/17/2019									<0.0002
9/18/2019	<0.0002	<0.0002	<0.0002	0.00207 (J)	<0.0002	<0.0002	<0.0002	<0.0002	
2/18/2020	<0.0002								
2/19/2020								<0.0002	<0.0002
2/25/2020			<0.0002	<0.0002	<0.0002				
2/26/2020						<0.0002	<0.0002		
7/21/2020								<0.0002	<0.0002
7/22/2020			<0.0002	<0.0002	<0.0002				
7/27/2020	<0.0002								
7/28/2020						<0.0002	<0.0002		
7/29/2020									
4/5/2021	9.07E-05 (J)								
4/6/2021								<0.0002	<0.0002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						0.000374	0.000333		
4/12/2021			<0.0002	0.000454	<0.0002				
9/21/2021								<0.0002	<0.0002
9/22/2021	0.00011 (J)								
9/27/2021						0.00024	0.00031		
9/28/2021			<0.0002	0.00054	0.00022				
4/19/2022	0.00017 (J)				0.00033				
4/20/2022			<0.0002	0.0005				<0.0002	<0.0002
4/27/2022									
5/2/2022									
5/3/2022						0.00116	0.00015 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.0002	
12/6/2018	<0.0002		
12/13/2018			
2/26/2019			<0.0002
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.0002
9/17/2019			
9/18/2019	<0.0002	<0.0002	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		<0.0002	<0.0002
2/26/2020			
7/21/2020		<0.0002	
7/22/2020	<0.0002		
7/27/2020			
7/28/2020			
7/29/2020			<0.0002
4/5/2021			0.000304
4/6/2021		<0.0002	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.0002		
4/12/2021			
9/21/2021		<0.0002	
9/22/2021	<0.0002		
9/27/2021			
9/28/2021			0.00019 (J)
4/19/2022			
4/20/2022	<0.0002		
4/27/2022			0.00035
5/2/2022		<0.0002	
5/3/2022			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:35 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.0002							
3/30/2016									
5/17/2016		<0.0002							
5/23/2016									
7/11/2016		<0.0002							
7/14/2016									
9/13/2016									
9/14/2016		<0.0002							
11/15/2016									
11/16/2016		<0.0002							
2/28/2017									
3/1/2017		<0.0002							
5/23/2017		<0.0002							
5/24/2017									
6/19/2017		<0.0002							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.0002							
4/17/2018									
4/19/2018		<0.0002							
10/1/2018									
10/3/2018		<0.0002							
2/26/2019	<0.0002								
4/2/2019		<0.0002							
9/17/2019	<0.0002	<0.0002							
9/18/2019									
9/26/2019	<0.0002								
10/22/2019			<0.0002						
2/18/2020									
2/19/2020		<0.0002	<0.0002				<0.0002		
2/25/2020	<0.0002					<0.0002			
2/26/2020					<0.0002				
4/29/2020				<0.0002				<0.0002	<0.0002
7/20/2020					<0.0002				<0.0002
7/21/2020						<0.0002	<0.0002	<0.0002	
7/23/2020			<0.0002						
7/27/2020		<0.0002		<0.0002					
7/28/2020									
7/29/2020	<0.0002								
3/30/2021					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/5/2021	<0.0002	<0.0002		<0.0002					
4/6/2021			0.00127						
4/7/2021									
9/22/2021						<0.0002			<0.0002
9/27/2021		<0.0002			<0.0002				
9/28/2021	<0.0002								
9/29/2021			0.00112	<0.0002			<0.0002	<0.0002	
4/26/2022	<0.0002				<0.0002	8E-05 (J)			<0.0002
4/27/2022				<0.0002			<0.0002	<0.0002	
5/2/2022			0.00125						
5/3/2022		<0.0002							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		<0.0002	<0.0002
5/17/2016		<0.0002	
5/23/2016			<0.0002
7/11/2016		<0.0002	
7/14/2016			<0.0002
9/13/2016			<0.0002
9/14/2016		<0.0002	
11/15/2016			<0.0002
11/16/2016		<0.0002	
2/28/2017		<0.0002	
3/1/2017			<0.0002
5/23/2017			<0.0002
5/24/2017		<0.0002	
6/19/2017			
6/20/2017			<0.0002
6/21/2017		<0.0002	
1/9/2018			<0.0002
1/10/2018		<0.0002	
4/17/2018			<0.0002
4/19/2018		<0.0002	
10/1/2018			<0.0002
10/3/2018		<0.0002	
2/26/2019			
4/2/2019		<0.0002	<0.0002
9/17/2019		<0.0002	
9/18/2019			<0.0002
9/26/2019			
10/22/2019			
2/18/2020		<0.0002	
2/19/2020			
2/25/2020			
2/26/2020			<0.0002
4/29/2020	<0.0002		
7/20/2020	<0.0002		
7/21/2020			
7/23/2020			
7/27/2020		<0.0002	
7/28/2020			<0.0002
7/29/2020			
3/30/2021	<0.0002		
4/5/2021		<0.0002	
4/6/2021			
4/7/2021			9.62E-05 (J)
9/22/2021			
9/27/2021	<0.0002	<0.0002	<0.0002
9/28/2021			
9/29/2021			
4/26/2022	<0.0002		
4/27/2022			
5/2/2022		<0.0002	
5/3/2022			9E-05 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.0002						
3/30/2016	<0.0002	<0.0002							
4/4/2016				<0.0002					
5/19/2016	<0.0002	<0.0002							
5/23/2016			<0.0002	<0.0002					
7/12/2016			<0.0002	<0.0002					
7/13/2016	<0.0002	<0.0002							
9/13/2016	<0.0002	<0.0002	<0.0002	<0.0002					
11/15/2016	<0.0002	<0.0002	<0.0002	<0.0002					
2/28/2017			<0.0002	<0.0002					
3/1/2017	<0.0002	<0.0002							
5/23/2017	<0.0002	<0.0002							
5/24/2017			<0.0002	<0.0002					
6/20/2017	<0.0002	<0.0002	<0.0002	<0.0002					
1/10/2018	<0.0002	<0.0002	<0.0002	<0.0002					
4/17/2018	<0.0002	<0.0002	<0.0002	<0.0002					
10/1/2018			<0.0002	<0.0002					
10/4/2018	<0.0002	<0.0002							
4/1/2019			<0.0002	<0.0002					
4/2/2019	<0.0002	<0.0002							
9/17/2019			<0.0002	<0.0002					
9/18/2019	<0.0002	<0.0002							
2/17/2020				<0.0002					
2/25/2020			<0.0002						
2/26/2020	<0.0002	<0.0002							
7/28/2020	<0.0002	<0.0002							
7/29/2020			<0.0002	<0.0002					
4/5/2021				<0.0002					
4/6/2021			9.45E-05 (J)						
4/7/2021	<0.0002	<0.0002							
4/12/2021					<0.0002	0.000109 (J)	0.000167 (J)	9.61E-05 (J)	
4/13/2021									0.00168
9/21/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8E-05 (J)	<0.0002
9/27/2021	<0.0002	<0.0002							
4/19/2022					<0.0002	<0.0002	8E-05 (J)	0.00013 (J)	0.00018 (J)
5/2/2022			<0.0002	<0.0002					
5/3/2022	<0.0002	<0.0002							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					3 (U)	3 (U)			
3/29/2016							2.84251		3 (U)
3/30/2016	3 (U)	3 (U)	3 (U)	3 (U)					
5/17/2016	0.364 (U)				0.119 (U)		3.09		0.792
5/18/2016		0.224 (U)	0.678	0.539					
5/19/2016						0.956			
7/11/2016					0.51 (U)	0.302 (U)			
7/13/2016	0.347 (U)	0.177 (U)	0.707						
7/14/2016				0.652			2.65		0.864
7/18/2016									
8/22/2016						0.613			
9/12/2016			1.04	0.325 (U)					
9/13/2016	0.567	0.216 (U)			0.413 (U)		3.22		1.01
9/14/2016						0.301 (U)			
11/14/2016		0.318 (U)	0.586	0.734			4.18		
11/15/2016	0.305 (U)				0.707	0.538 (U)			
11/16/2016									1.27
1/3/2017						0.394 (U)			
2/27/2017					0.479 (U)	0.129 (U)			
2/28/2017	0.346 (U)	0.551	1.09	0.629			3.61		0.347 (U)
6/19/2017	0.614	0.418 (U)					3		0.317 (U)
6/20/2017						0.362 (U)			
6/21/2017			1.05	0.637	0.529				
1/9/2018		0.402 (U)	1.22	0.825	0.91	1.35	3.76		1.07
1/10/2018	0.629								
4/16/2018	0.0363 (U)	0.437 (U)	0.769						
4/19/2018				0.546 (U)	-0.42 (U)	0.438 (U)	3.32		1.31
10/1/2018							2.91		0.793
10/2/2018	0.613								
10/4/2018		0.703	1.5						
10/5/2018				1.04	0.955	1.47			
12/17/2018									
2/25/2019								2	
2/27/2019									
4/3/2019	0.26 (U)	0.2 (U)	0.669	0.577	0.189 (U)	1.16	3.43		0.907
5/7/2019						1.36			
9/16/2019	0.307 (U)	0.507 (U)	1.04				3.55	3.26	
9/17/2019				0.958 (U)	0.558 (U)				2.09
9/18/2019						0.94			
2/17/2020	0.379 (U)	0.568							
2/18/2020			1.34						
2/19/2020				0.702	0.404 (U)				
2/25/2020						0.669	2.99	2.46	
2/26/2020									1.35
7/22/2020	0.185 (U)	0.24 (U)							
7/23/2020					1.48				
7/27/2020			1.85	0.986					
7/28/2020						2.35	3.49	2.99	
7/29/2020									1.85
4/5/2021	0.579 (U)	0.13 (U)	1.2				4.28	2.4	
4/6/2021				0.66 (U)	0.875 (U)	1.2			0.689 (U)
9/21/2021	0.802 (U)	0.0771 (U)							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
9/22/2021			1.4	0.834 (U)	0.44 (U)				
9/28/2021						1.04 (U)	4.67	3.09	
9/29/2021									1.18
4/20/2022									1.12 (U)
4/26/2022									
4/27/2022					0.753 (U)		4.33	2.56	
5/2/2022	0.349 (U)	0.355 (U)		0.412 (U)		1.14 (U)			
5/3/2022			1.09 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			3 (U)
3/30/2016			
5/17/2016			1.2
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			1.19
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			1.31
11/14/2016			1.29
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.727
6/19/2017			0.98
6/20/2017			
6/21/2017			
1/9/2018			1.79
1/10/2018			
4/16/2018			
4/19/2018			0.981
10/1/2018			1.54
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.694		
2/25/2019			
2/27/2019		2.01	
4/3/2019			1.49
5/7/2019			
9/16/2019			
9/17/2019		6.44	
9/18/2019	1.56		1.25
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			1.13
2/26/2020	0.489 (U)	5.34	
7/22/2020			2.35
7/23/2020	1.26 (U)	8.21	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			
4/6/2021	1.13	10.9	1.68
9/21/2021			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
9/22/2021			
9/28/2021			1.94
9/29/2021	1.23	11	
4/20/2022	1.72		
4/26/2022		11.6	1.34
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	3 (U)	3 (U)							
3/29/2016			17.244						
5/18/2016	0.425	0.142 (U)	19.9						
7/11/2016		0.279 (U)							
7/13/2016	0.584		18.1			0.355 (U)			
7/14/2016							0.711		
8/22/2016						0.816	0.615		
9/13/2016	0.46 (U)					0.761	0.878		
9/14/2016		0.205 (U)	20.3						
11/14/2016			17.2						
11/15/2016						1.43	0.671		
11/16/2016	1.58	0.373 (U)							
1/3/2017						1.11	1		
2/27/2017	0.326 (U)								
2/28/2017			13.9						
3/1/2017		0.217 (U)				0.378 (U)	0.534		
6/19/2017		0.357 (U)	15.6						
6/20/2017						0.224 (U)	0.344 (U)		
6/21/2017	0.143 (U)								
1/9/2018			14.7				0.452 (U)		
1/10/2018	0.67	0.239 (U)				1.11			
4/17/2018						0.367 (U)	0.185 (U)		
4/19/2018	0.316 (U)	-0.125 (U)	11.6						
10/1/2018			15.7						
10/2/2018	0.854								
10/3/2018		0.185 (U)							
10/4/2018						1.05	0.568		
12/5/2018								0.447 (U)	0.541
12/6/2018									
12/13/2018				0.807					
2/26/2019									
2/27/2019					1.09				
4/1/2019	0.263 (U)	0.162 (U)							
4/2/2019						0.182 (U)	0.503		
4/3/2019			13.8						
9/16/2019									
9/17/2019									0.732
9/18/2019	0.29 (U)	-0.0854 (U)	15.7	1.14	2.02	0.435 (U)	0.165 (U)	0.0448 (U)	
2/18/2020	0.779								
2/19/2020								0.384 (U)	0.752
2/25/2020			12.9	0.925	1.78				
2/26/2020						0.032 (U)	0.693		
7/21/2020								0.608	0.566
7/22/2020			15.6	1.46	1.7				
7/27/2020	1.68								
7/28/2020						0.275 (U)	0.41 (U)		
7/29/2020									
4/5/2021	0.959 (U)								
4/6/2021								0.312 (U)	1 (U)
4/7/2021						1.12 (U)	0.365 (U)		
4/12/2021			15.6	1.51	2.14				
9/21/2021								0.618 (U)	0.337 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
9/22/2021	0.368 (U)								
9/27/2021						0.815 (U)	0.892 (U)		
9/28/2021			15.4	2.92	2.87				
4/19/2022	0.66 (U)				3.27				
4/20/2022			1.49	2.27				0.757 (U)	0.419 (U)
4/27/2022									
5/2/2022									
5/3/2022						0.435 (U)	0.617 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		0.786	
12/6/2018	0.29 (U)		
12/13/2018			
2/26/2019			3.76
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			4.63
9/17/2019			
9/18/2019	0.976	1.01	
2/18/2020			
2/19/2020	0.475 (U)		
2/25/2020		0.269 (U)	5.25
2/26/2020			
7/21/2020		0.488 (U)	
7/22/2020	0.713		
7/27/2020			
7/28/2020			
7/29/2020			7.14
4/5/2021			6.64
4/6/2021		0.21 (U)	
4/7/2021	0.472 (U)		
4/12/2021			
9/21/2021		0 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
9/22/2021	1.2 (U)		
9/27/2021			
9/28/2021			6.47
4/19/2022			
4/20/2022	0 (U)		
4/27/2022			5.85
5/2/2022		0.305 (U)	
5/3/2022			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		3 (U)							
3/30/2016									
5/17/2016		0.222 (U)							
5/23/2016									
7/11/2016		0.118 (U)							
7/14/2016									
9/13/2016									
9/14/2016		0.265 (U)							
11/15/2016									
11/16/2016		0.295 (U)							
2/28/2017									
3/1/2017		0.0981 (U)							
6/19/2017		0.194 (U)							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		0.753							
4/17/2018									
4/19/2018		0.171 (U)							
10/1/2018									
10/3/2018		0.433 (U)							
2/26/2019	9.95								
4/2/2019		-0.0631 (U)							
9/17/2019	13.2	0.0186 (U)							
9/18/2019									
9/26/2019	16.2								
2/18/2020									
2/19/2020		0.418 (U)	0.994				0.991		
2/25/2020	13.7					0.967			
2/26/2020					1.42				
4/29/2020				0.35 (U)				0.455 (U)	1.42
7/20/2020					1.4				1.54
7/21/2020						1.34	1.28	0.537	
7/27/2020		-0.0654 (U)		0.288 (U)					
7/28/2020									
7/29/2020	16.2								
3/30/2021					1.47	1.41	0.371 (U)	0.768 (U)	1.83
4/5/2021	18.7	0.143 (U)		0.716 (U)					
4/6/2021			1.8						
4/7/2021									
9/22/2021						1.67			1.95
9/27/2021		0.348 (U)			1.64				
9/28/2021	16.8								
9/29/2021			1.7	0.463 (U)			1.81	1.27	
4/26/2022	17.9				1.83	1.21			1.32
4/27/2022				0.735 (U)			1.22	1 (U)	
5/2/2022			0.758 (U)						
5/3/2022		0.822 (U)							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		3 (U)	3 (U)
5/17/2016		0.294 (U)	
5/23/2016			0.45
7/11/2016		-0.021 (U)	
7/14/2016			0.84
9/13/2016			0.685
9/14/2016		0.705	
11/15/2016			0.804
11/16/2016		0.491 (U)	
2/28/2017		0.367 (U)	
3/1/2017			0.477
6/19/2017			
6/20/2017			0.737
6/21/2017		0.0763 (U)	
1/9/2018			0.714
1/10/2018		0.818	
4/17/2018			0.641
4/19/2018		0.39 (U)	
10/1/2018			0.651
10/3/2018		1.23	
2/26/2019			
4/2/2019		0.427	0.245 (U)
9/17/2019		0.767	
9/18/2019			0.435 (U)
9/26/2019			
2/18/2020		0.231 (U)	
2/19/2020			
2/25/2020			
2/26/2020			0.661
4/29/2020	3.65		
7/20/2020	4.06		
7/21/2020			
7/27/2020		0.97 (U)	
7/28/2020			0.907 (U)
7/29/2020			
3/30/2021	4.78		
4/5/2021		0.474 (U)	
4/6/2021			
4/7/2021			1.4
9/22/2021			
9/27/2021	4	0.745 (U)	1.34
9/28/2021			
9/29/2021			
4/26/2022	4.41		
4/27/2022			
5/2/2022		0.658 (U)	
5/3/2022			0.958 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			3 (U)						
3/30/2016	3 (U)								
4/4/2016				3 (U)					
5/19/2016	0.544	0.116 (U)							
5/23/2016			-0.317 (U)	0.0417 (U)					
7/12/2016			-0.0583 (U)	0.208 (U)					
7/13/2016	0.0469 (U)	0.187 (U)							
9/13/2016	0.179 (U)	0.0165 (U)	0.127 (U)	0.436 (U)					
11/15/2016	1.45	0.236 (U)	0.406 (U)	0.775					
2/28/2017			-0.00408 (U)	0.42 (U)					
3/1/2017	0.166 (U)	0.213 (U)							
6/20/2017	0.484	0.16 (U)	0.22 (U)	0.53					
1/10/2018	0.544	0.889	0.0982 (U)	0.903					
4/17/2018	0.719	0.623	-0.237 (U)	0.293 (U)					
10/1/2018			0.601	1.07					
10/4/2018	0.558	0.971							
4/1/2019			-0.0724 (U)	0.334					
4/2/2019	0.369	0.326 (U)							
9/17/2019			0.645	0.194 (U)					
9/18/2019	0.586	0.56 (U)							
2/17/2020				0.38 (U)					
2/25/2020			0.362 (U)						
2/26/2020	0.746	0.512 (U)							
7/28/2020	0.292 (U)	0.652 (U)							
7/29/2020			0.398 (U)	0.28 (U)					
4/5/2021				0.843 (U)					
4/6/2021			0.53 (U)						
4/7/2021	0.387 (U)	0.743 (U)							
4/12/2021					0.176 (U)	0.161 (U)	0.456 (U)	0.369 (U)	
4/13/2021									0.404 (U)
9/21/2021			0.0496 (U)	1.05 (U)	0.723 (U)	0.737 (U)	0.828 (U)	0.655 (U)	0.491 (U)
9/27/2021	0.314 (U)	0.319 (U)							
4/19/2022					1.02	0.455 (U)	0.392 (U)	0.024 (U)	0.853 (U)
5/2/2022			0.465 (U)	0.891					
5/3/2022	0.478 (U)	0.596 (U)							

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.084 (J)	0.276 (J)			
3/29/2016							0.118 (J)		0.221 (J)
3/30/2016	0.052 (J)	0.026 (J)	0.039 (J)	0.042 (J)					
5/17/2016	0.088 (J)				0.098 (J)		0.151 (J)		0.241 (J)
5/18/2016		0.068 (J)	0.078 (J)	0.08 (J)					
5/19/2016						0.313			
7/11/2016					0.086 (J)	0.076 (J)			
7/13/2016	0.06 (J)	0.049 (J)	0.058 (J)						
7/14/2016				0.06 (J)			0.124 (J)		0.213 (J)
7/18/2016									
8/22/2016						0.067 (J)			
9/12/2016			0.023 (J)	0.028 (J)					
9/13/2016	0.019 (J)	0.018 (J)			0.061 (J)		0.089 (J)		0.168 (J)
9/14/2016						0.036 (J)			
11/14/2016		<0.125	<0.125	<0.125			0.022 (J)		
11/15/2016	<0.125				<0.125	<0.125			
11/16/2016									0.103 (J)
1/3/2017						<0.125			
2/27/2017					0.12	0.06 (J)			
2/28/2017	<0.125	<0.125	<0.125	0.04 (J)			0.1		0.22
5/22/2017	0.04 (J)	<0.125				0.07 (J)			
5/24/2017			0.05 (J)	0.05 (J)	0.12		0.12		0.2
6/19/2017	0.04 (J)	<0.125					0.13		0.21
6/20/2017						0.07 (J)			
6/21/2017			0.05 (J)	0.05 (J)	0.1				
8/14/2017	0.04 (J)	<0.125	0.04 (J)	0.05 (J)		0.07 (J)	0.12		0.22
8/15/2017					0.12				
1/9/2018		<0.125	0.04 (J)	0.05 (J)	0.14	0.08 (J)	0.13		0.24
1/10/2018	<0.125								
4/16/2018	0.04 (J)	<0.125	0.04 (J)						
4/19/2018				0.05 (J)	0.13	0.08 (J)	0.13		0.22
10/1/2018							0.15		0.25
10/2/2018	0.04 (J)								
10/4/2018		0.04 (J)	0.04 (J)						
10/5/2018				0.05 (J)	0.1	0.1			
12/17/2018									
2/25/2019								0.095 (J)	
2/27/2019									
4/3/2019	<0.125	<0.125	<0.125	<0.125	0.106	0.104	0.12		0.182
5/7/2019						0.0937 (J)			
9/16/2019	<0.125	<0.125	0.0538 (J)				0.126	0.0935 (J)	
9/17/2019				0.0753 (J)	0.116				0.187
9/18/2019						0.094 (J)			
2/17/2020	0.051 (J)	0.0546 (J)							
2/18/2020			0.0571 (J)						
2/19/2020				0.06 (J)	0.122				
2/25/2020						0.0995 (J)	0.133	0.0992 (J)	
2/26/2020									0.189
7/22/2020	<0.125	<0.125							
7/23/2020					0.0954 (J)				
7/27/2020			<0.125	<0.125					
7/28/2020						0.0738 (J)	0.124	0.0811 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
7/29/2020									0.185
4/5/2021	0.0627 (J)	0.0634 (J)	0.0733 (J)				0.159	0.136	
4/6/2021				0.0794 (J)	0.124	0.116			0.179
9/21/2021	0.0847 (J)	0.0847 (J)							
9/22/2021			0.0887 (J)	0.117	0.149				
9/28/2021						0.09 (J)	0.125	0.0851 (J)	
9/29/2021									0.211
4/20/2022									0.128
4/26/2022									
4/27/2022					0.0652 (J)		0.0766 (J)	<0.125	
5/2/2022	<0.125	<0.125		<0.125		0.08 (J)			
5/3/2022			<0.125						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			0.04 (J)
3/30/2016			
5/17/2016			0.079 (J)
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			0.058 (J)
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			0.025 (J)
11/14/2016			<0.125
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.04 (J)
5/22/2017			
5/24/2017			0.05 (J)
6/19/2017			0.05 (J)
6/20/2017			
6/21/2017			
8/14/2017			0.05 (J)
8/15/2017			
1/9/2018			0.05 (J)
1/10/2018			
4/16/2018			
4/19/2018			0.05 (J)
10/1/2018			0.06 (J)
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.1		
2/25/2019			
2/27/2019		0.13	
4/3/2019			0.0678 (J)
5/7/2019			
9/16/2019			
9/17/2019		0.0925 (J)	
9/18/2019	0.12		0.0551 (J)
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			0.0701 (J)
2/26/2020	0.124	0.101	
7/22/2020			0.0628 (J)
7/23/2020	0.131	0.0891 (J)	
7/27/2020			
7/28/2020			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
7/29/2020			
4/5/2021			
4/6/2021	0.129	0.0995 (J)	<0.125
9/21/2021			
9/22/2021			
9/28/2021			0.0839 (J)
9/29/2021	0.12	0.0713 (J)	
4/20/2022	0.0941 (J)		
4/26/2022		<0.125	<0.125
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	0.083 (J)	0.028 (J)							
3/29/2016			0.035 (J)						
5/18/2016	0.092 (J)	0.064 (J)	0.076 (J)						
7/11/2016		0.054 (J)							
7/13/2016	0.064 (J)		0.053 (J)			0.118 (J)			
7/14/2016							0.096 (J)		
8/22/2016						0.117 (J)	0.088 (J)		
9/13/2016	0.03 (J)					0.068 (J)	0.054 (J)		
9/14/2016		0.016 (J)	0.022 (J)						
11/14/2016			<0.125						
11/15/2016						<0.125	<0.125		
11/16/2016	<0.125	<0.125							
1/3/2017						<0.125	<0.125		
2/27/2017	<0.125								
2/28/2017			<0.125						
3/1/2017		<0.125				0.04 (J)	0.06 (J)		
5/22/2017	0.04 (J)								
5/23/2017		<0.125				0.04 (J)	0.07 (J)		
5/24/2017			0.04 (J)						
6/19/2017		<0.125	0.04 (J)						
6/20/2017						0.04 (J)	0.06 (J)		
6/21/2017	0.05 (J)								
8/14/2017	0.04 (J)		0.04 (J)						
8/15/2017		<0.125				<0.125	0.06 (J)		
1/9/2018			0.04 (J)				0.07 (J)		
1/10/2018	0.04 (J)	<0.125				0.06 (J)			
4/17/2018						<0.125	0.06 (J)		
4/19/2018	0.04 (J)	<0.125	0.04 (J)						
10/1/2018			0.05 (J)						
10/2/2018	0.05 (J)								
10/3/2018		0.04 (J)							
10/4/2018						0.07 (J)	0.08 (J)		
12/5/2018								0.04 (J)	0.05 (J)
12/6/2018									
1/2/2019				11					
2/26/2019									
2/27/2019					0.0806 (J)				
4/1/2019	0.0563 (J)	<0.125							
4/2/2019						<0.125	0.0613 (J)		
4/3/2019			0.0657 (J)						
5/7/2019				0.101					
9/16/2019									
9/17/2019									0.0892 (J)
9/18/2019	0.0507 (J)	<0.125	<0.125	0.0879 (J)	0.0523 (J)	0.0749 (J)	0.065 (J)	0.0623 (J)	
2/18/2020	0.0557 (J)								
2/19/2020								<0.125	0.0647 (J)
2/25/2020			0.0566 (J)	0.0976 (J)	0.0724 (J)				
2/26/2020						0.0804 (J)	0.0687 (J)		
7/21/2020								0.0713 (J)	0.0903 (J)
7/22/2020			<0.125	0.0955 (J)	<0.125				
7/27/2020	<0.125								
7/28/2020						<0.125	<0.125		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
7/29/2020									
4/5/2021	0.088 (J)								
4/6/2021								0.105	0.109
4/7/2021						0.0739 (J)	0.0834 (J)		
4/12/2021			0.0644 (J)	0.108	0.0733 (J)				
9/21/2021								0.0903 (J)	0.105
9/22/2021	0.0965 (J)								
9/27/2021						0.0914 (J)	0.1		
9/28/2021			0.0828 (J)	0.0942 (J)	0.0697 (J)				
4/19/2022	<0.125				0.09645 (JD)				
4/20/2022			<0.125	0.0672 (J)				<0.125	<0.125
4/27/2022									
5/2/2022									
5/3/2022						<0.125	0.0819 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
8/14/2017			
8/15/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.125	
12/6/2018	<0.125		
1/2/2019			
2/26/2019			0.0777 (J)
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
5/7/2019			
9/16/2019			0.0768 (J)
9/17/2019			
9/18/2019	<0.125	0.0618 (J)	
2/18/2020			
2/19/2020	<0.125		
2/25/2020		0.0554 (J)	0.0778 (J)
2/26/2020			
7/21/2020		0.0959 (J)	
7/22/2020	<0.125		
7/27/2020			
7/28/2020			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
7/29/2020			0.067 (J)
4/5/2021			0.0933 (J)
4/6/2021		0.0752 (J)	
4/7/2021	0.0741 (J)		
4/12/2021			
9/21/2021		<0.125	
9/22/2021	0.0852 (J)		
9/27/2021			
9/28/2021			0.0653 (J)
4/19/2022			
4/20/2022	<0.125		
4/27/2022			<0.125
5/2/2022		<0.125	
5/3/2022			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		0.032 (J)							
3/30/2016									
5/17/2016		0.068 (J)							
5/23/2016									
7/11/2016		0.057 (J)							
7/14/2016									
9/13/2016									
9/14/2016		0.017 (J)							
11/15/2016									
11/16/2016		<0.125							
2/28/2017									
3/1/2017		<0.125							
5/23/2017		<0.125							
5/24/2017									
6/19/2017		<0.125							
6/20/2017									
6/21/2017									
8/15/2017		<0.125							
1/9/2018									
1/10/2018		<0.125							
4/17/2018									
4/19/2018		<0.125							
10/1/2018									
10/3/2018		<0.125							
2/26/2019	0.106								
4/2/2019		<0.125							
9/17/2019	0.0669 (J)	<0.125							
9/18/2019									
9/26/2019	0.0749 (J)								
10/22/2019			0.187						
2/18/2020									
2/19/2020		<0.125	0.236				0.13		
2/25/2020	0.0683 (J)					0.235			
2/26/2020					0.143				
4/29/2020				0.269				0.141	0.397
7/20/2020					0.169				0.407
7/21/2020						0.313	0.118	0.157	
7/23/2020			0.17						
7/27/2020		<0.125		0.428					
7/28/2020									
7/29/2020	0.0608 (J)								
3/30/2021					0.216	0.29	0.106	0.187	0.405
4/5/2021	0.078 (J)	0.0801 (J)		0.558					
4/6/2021			0.193						
4/7/2021									
9/22/2021						0.363			0.452
9/27/2021		0.0805 (J)			0.245				
9/28/2021	0.0614 (J)								
9/29/2021			0.19	0.656			0.136	0.223	
4/26/2022	<0.125				0.16	0.177			0.436
4/27/2022				0.39			<0.125	0.0993 (J)	
5/2/2022			0.152						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
5/3/2022		<0.125							

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		0.023 (J)	0.048 (J)
5/17/2016		0.065 (J)	
5/23/2016			0.076 (J)
7/11/2016		0.054 (J)	
7/14/2016			0.058 (J)
9/13/2016			0.025 (J)
9/14/2016		0.014 (J)	
11/15/2016			<0.125
11/16/2016		<0.125	
2/28/2017		<0.125	
3/1/2017			0.04 (J)
5/23/2017			0.05 (J)
5/24/2017		<0.125	
6/19/2017			
6/20/2017			0.06 (J)
6/21/2017		<0.125	
8/15/2017		<0.125	0.05 (J)
1/9/2018			0.04 (J)
1/10/2018		<0.125	
4/17/2018			0.04 (J)
4/19/2018		<0.125	
10/1/2018			0.05 (J)
10/3/2018		<0.125	
2/26/2019			
4/2/2019		<0.125	0.0555 (J)
9/17/2019		<0.125	
9/18/2019			0.0568 (J)
9/26/2019			
10/22/2019			
2/18/2020		0.0506 (J)	
2/19/2020			
2/25/2020			
2/26/2020			0.0647 (J)
4/29/2020	0.164		
7/20/2020	0.158		
7/21/2020			
7/23/2020			
7/27/2020		<0.125	
7/28/2020			<0.125
7/29/2020			
3/30/2021	0.169		
4/5/2021		0.0842 (J)	
4/6/2021			
4/7/2021			0.0874 (J)
9/22/2021			
9/27/2021	0.187	0.0702 (J)	0.0989 (J)
9/28/2021			
9/29/2021			
4/26/2022	0.152		
4/27/2022			
5/2/2022		<0.125	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
5/3/2022			0.0648 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			0.104 (J)						
3/30/2016	0.056 (J)	0.034 (J)							
4/4/2016				0.109 (J)					
5/19/2016	0.09 (J)	0.072 (J)							
5/23/2016			0.131 (J)	0.1 (J)					
7/12/2016			0.105 (J)	0.11 (J)					
7/13/2016	0.067 (J)	0.054 (J)							
9/13/2016	0.026 (J)	0.021 (J)	0.057 (J)	0.075 (J)					
11/15/2016	<0.125	<0.125	<0.125	0.023 (J)					
2/28/2017			0.07 (J)	0.11					
3/1/2017	<0.125	<0.125							
5/23/2017	0.04 (J)	0.04 (J)							
5/24/2017			0.09 (J)	0.11					
6/20/2017	0.05 (J)	0.04 (J)	0.08 (J)	0.12					
8/15/2017	0.04 (J)	0.04 (J)	0.09 (J)						
8/16/2017				<0.125 (U*)					
1/10/2018	0.04 (J)	0.04 (J)	0.11	0.12					
4/17/2018	0.04 (J)	<0.125	0.09 (J)	0.12					
10/1/2018			0.12	0.14					
10/4/2018	0.05 (J)	0.05 (J)							
4/1/2019			0.0956 (J)	0.136					
4/2/2019	0.0586 (J)	0.052 (J)							
9/17/2019			0.0971 (J)	0.128					
9/18/2019	0.0634 (J)	0.0578 (J)							
2/17/2020				0.15					
2/25/2020			0.0898 (J)						
2/26/2020	<0.125	0.0523 (J)							
7/28/2020	<0.125	<0.125							
7/29/2020			0.0742 (J)	0.116					
4/5/2021				0.15					
4/6/2021			0.114						
4/7/2021	0.0872 (J)	0.0705 (J)							
4/12/2021					0.163	0.0651 (J)	<0.125	<0.125	
4/13/2021									<0.125
9/21/2021			0.132	0.181	0.181	0.083 (J)	0.113	0.0969 (J)	0.0656 (J)
9/27/2021	0.0862 (J)	0.0882 (J)							
4/19/2022					0.107 (J)	<0.125	<0.125	<0.125	<0.125
5/2/2022			0.111 (J)	0.122 (J)					
5/3/2022	<0.125	<0.125							

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.0202 (o)	<0.0002			
3/29/2016							<0.0002		<0.0002
3/30/2016	<0.0002	<0.0002	<0.0002	<0.0002					
5/17/2016	<0.0002				0.00114 (J)		<0.0002		<0.0002
5/18/2016		<0.0002	<0.0002	<0.0002					
5/19/2016						<0.0002			
7/11/2016					<0.0002	<0.0002			
7/13/2016	<0.0002	<0.0002	<0.0002						
7/14/2016				<0.0002			<0.0002		<0.0002
7/18/2016									
8/22/2016						<0.0002			
9/12/2016			<0.0002	<0.0002					
9/13/2016	<0.0002	<0.0002			<0.0002		<0.0002		<0.0002
9/14/2016						<0.0002			
11/14/2016		<0.0002	<0.0002	<0.0002			<0.0002		
11/15/2016	<0.0002				<0.0002	<0.0002			
11/16/2016									<0.0002
1/3/2017						<0.0002			
2/27/2017					<0.0002	<0.0002			
2/28/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002		<0.0002
5/22/2017	<0.0002	<0.0002				<0.0002			
5/24/2017			<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
6/19/2017	<0.0002	<0.0002					<0.0002		<0.0002
6/20/2017						<0.0002			
6/21/2017			<0.0002	<0.0002	<0.0002				
1/9/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/10/2018	<0.0002								
4/16/2018	<0.0002	<0.0002	<0.0002						
4/19/2018				<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/1/2018							<0.0002		<0.0002
10/2/2018	<0.0002								
10/4/2018		<0.0002	<0.0002						
10/5/2018				<0.0002	<0.0002	<0.0002			
12/17/2018									
2/25/2019								<0.0002	
2/27/2019									
4/3/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
5/7/2019						<0.0002			
9/16/2019	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	
9/17/2019				<0.0002	<0.0002				<0.0002
9/18/2019						<0.0002			
2/17/2020	<0.0002	<0.0002							
2/18/2020			<0.0002						
2/19/2020				<0.0002	<0.0002				
2/25/2020						<0.0002	<0.0002	<0.0002	
2/26/2020									<0.0002
7/22/2020	<0.0002	<0.0002							
7/23/2020					<0.0002				
7/27/2020			<0.0002	<0.0002					
7/28/2020						<0.0002	<0.0002	<0.0002	
7/29/2020									<0.0002
4/5/2021	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				0.000106 (J)	<0.0002	<0.0002			<0.0002
9/21/2021	<0.0002	<0.0002							
9/22/2021			<0.0002	<0.0002	<0.0002				
9/28/2021						<0.0002	<0.0002	<0.0002	
9/29/2021									<0.0002
4/20/2022									<0.0002
4/26/2022									
4/27/2022					<0.0002		<0.0002	<0.0002	
5/2/2022	<0.0002	<0.0002		<0.0002		<0.0002			
5/3/2022			<0.0002						

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			<0.0002
3/30/2016			
5/17/2016			<0.0002
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.0002
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.0002
11/14/2016			<0.0002
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.0002
5/22/2017			
5/24/2017			<0.0002
6/19/2017			<0.0002
6/20/2017			
6/21/2017			
1/9/2018			<0.0002
1/10/2018			
4/16/2018			
4/19/2018			<0.0002
10/1/2018			<0.0002
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.0002		
2/25/2019			
2/27/2019		<0.0002	
4/3/2019			<0.0002
5/7/2019			
9/16/2019			
9/17/2019		<0.0002	
9/18/2019	<0.0002		<0.0002
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.0002
2/26/2020	<0.0002	<0.0002	
7/22/2020			<0.0002
7/23/2020	<0.0002	<0.0002	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.0002	<0.0002	<0.0002
9/21/2021			
9/22/2021			
9/28/2021			<0.0002
9/29/2021	<0.0002	<0.0002	
4/20/2022	<0.0002		
4/26/2022		<0.0002	<0.0002
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.0002	<0.0002							
3/29/2016			<0.0002						
5/18/2016	<0.0002	<0.0002	<0.0002						
7/11/2016		<0.0002							
7/13/2016	<0.0002		<0.0002			<0.0002			
7/14/2016							<0.0002		
8/22/2016						<0.0002	<0.0002		
9/13/2016	<0.0002					<0.0002	<0.0002		
9/14/2016		<0.0002	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.0002	<0.0002		
11/16/2016	<0.0002	<0.0002							
1/3/2017						<0.0002	<0.0002		
2/27/2017	<0.0002								
2/28/2017			<0.0002						
3/1/2017		<0.0002				<0.0002	<0.0002		
5/22/2017	<0.0002								
5/23/2017		<0.0002				<0.0002	<0.0002		
5/24/2017			<0.0002						
6/19/2017		<0.0002	<0.0002						
6/20/2017						<0.0002	<0.0002		
6/21/2017	<0.0002								
1/9/2018			<0.0002				<0.0002		
1/10/2018	<0.0002	<0.0002				<0.0002			
4/17/2018						<0.0002	<0.0002		
4/19/2018	<0.0002	<0.0002	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.0002								
10/3/2018		<0.0002							
10/4/2018						<0.0002	<0.0002		
12/5/2018								<0.0002	<0.0002
12/6/2018									
12/13/2018				<0.0002					
2/26/2019									
2/27/2019					<0.0002				
4/1/2019	<0.0002	<0.0002							
4/2/2019						<0.0002	<0.0002		
4/3/2019			<0.0002						
9/16/2019									
9/17/2019									<0.0002
9/18/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/18/2020	<0.0002								
2/19/2020								<0.0002	<0.0002
2/25/2020			<0.0002	<0.0002	<0.0002				
2/26/2020						<0.0002	<0.0002		
7/21/2020								<0.0002	<0.0002
7/22/2020			<0.0002	<0.0002	<0.0002				
7/27/2020	<0.0002								
7/28/2020						<0.0002	<0.0002		
7/29/2020									
4/5/2021	<0.0002								
4/6/2021								<0.0002	<0.0002

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						<0.0002	<0.0002		
4/12/2021			<0.0002	<0.0002	0.000234				
9/21/2021								<0.0002	<0.0002
9/22/2021	<0.0002								
9/27/2021						<0.0002	<0.0002		
9/28/2021			<0.0002	<0.0002	0.00072				
4/19/2022	0.00019 (J)				0.00115				
4/20/2022			<0.0002	<0.0002				<0.0002	<0.0002
4/27/2022									
5/2/2022									
5/3/2022						<0.0002	<0.0002		

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.0002	
12/6/2018	<0.0002		
12/13/2018			
2/26/2019			<0.0002
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.0002
9/17/2019			
9/18/2019	<0.0002	<0.0002	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		<0.0002	<0.0002
2/26/2020			
7/21/2020		<0.0002	
7/22/2020	<0.0002		
7/27/2020			
7/28/2020			
7/29/2020			<0.0002
4/5/2021			0.000129 (J)
4/6/2021		<0.0002	

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.0002		
4/12/2021			
9/21/2021		<0.0002	
9/22/2021	<0.0002		
9/27/2021			
9/28/2021			<0.0002
4/19/2022			
4/20/2022	<0.0002		
4/27/2022			0.0001 (J)
5/2/2022		<0.0002	
5/3/2022			

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		0.00128 (J)							
3/30/2016									
5/17/2016		<0.0002							
5/23/2016									
7/11/2016		<0.0002							
7/14/2016									
9/13/2016									
9/14/2016		<0.0002							
11/15/2016									
11/16/2016		<0.0002							
2/28/2017									
3/1/2017		<0.0002							
5/23/2017		<0.0002							
5/24/2017									
6/19/2017		<0.0002							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.0002							
4/17/2018									
4/19/2018		<0.0002							
10/1/2018									
10/3/2018		<0.0002							
2/26/2019	<0.0002								
4/2/2019		<0.0002							
9/17/2019	<0.0002	<0.0002							
9/18/2019									
9/26/2019	<0.0002								
10/22/2019			<0.0002						
2/18/2020									
2/19/2020		<0.0002	<0.0002				<0.0002		
2/25/2020	<0.0002					<0.0002			
2/26/2020					<0.0002				
4/29/2020				<0.0002				<0.0002	<0.0002
7/20/2020					<0.0002				<0.0002
7/21/2020						<0.0002	<0.0002	<0.0002	
7/23/2020			<0.0002						
7/27/2020		<0.0002		<0.0002					
7/28/2020									
7/29/2020	<0.0002								
3/30/2021					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/5/2021	<0.0002	<0.0002		<0.0002					
4/6/2021			<0.0002						
4/7/2021									
9/22/2021						<0.0002			<0.0002
9/27/2021		<0.0002			<0.0002				
9/28/2021	<0.0002								
9/29/2021			<0.0002	<0.0002			<0.0002	<0.0002	
4/26/2022	<0.0002				<0.0002	<0.0002			<0.0002
4/27/2022				<0.0002			<0.0002	<0.0002	
5/2/2022			<0.0002						
5/3/2022		<0.0002							

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		0.00247 (J)	<0.0002
5/17/2016		<0.0002	
5/23/2016			<0.0002
7/11/2016		<0.0002	
7/14/2016			<0.0002
9/13/2016			<0.0002
9/14/2016		<0.0002	
11/15/2016			<0.0002
11/16/2016		<0.0002	
2/28/2017		<0.0002	
3/1/2017			<0.0002
5/23/2017			<0.0002
5/24/2017		<0.0002	
6/19/2017			
6/20/2017			<0.0002
6/21/2017		<0.0002	
1/9/2018			<0.0002
1/10/2018		<0.0002	
4/17/2018			<0.0002
4/19/2018		<0.0002	
10/1/2018			<0.0002
10/3/2018		<0.0002	
2/26/2019			
4/2/2019		<0.0002	<0.0002
9/17/2019		<0.0002	
9/18/2019			<0.0002
9/26/2019			
10/22/2019			
2/18/2020		<0.0002	
2/19/2020			
2/25/2020			
2/26/2020			<0.0002
4/29/2020	<0.0002		
7/20/2020	<0.0002		
7/21/2020			
7/23/2020			
7/27/2020		<0.0002	
7/28/2020			<0.0002
7/29/2020			
3/30/2021	<0.0002		
4/5/2021		<0.0002	
4/6/2021			
4/7/2021			0.00014 (J)
9/22/2021			
9/27/2021	<0.0002	<0.0002	0.0001 (J)
9/28/2021			
9/29/2021			
4/26/2022	<0.0002		
4/27/2022			
5/2/2022		<0.0002	
5/3/2022			0.0001 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.0002						
3/30/2016	<0.0002	<0.0002							
4/4/2016				<0.0002					
5/19/2016	<0.0002	<0.0002							
5/23/2016			<0.0002	<0.0002					
7/12/2016			<0.0002	<0.0002					
7/13/2016	<0.0002	<0.0002							
9/13/2016	<0.0002	<0.0002	<0.0002	<0.0002					
11/15/2016	<0.0002	<0.0002	<0.0002	<0.0002					
2/28/2017			<0.0002	<0.0002					
3/1/2017	<0.0002	<0.0002							
5/23/2017	<0.0002	<0.0002							
5/24/2017			<0.0002	<0.0002					
6/20/2017	<0.0002	<0.0002	<0.0002	<0.0002					
1/10/2018	<0.0002	<0.0002	<0.0002	<0.0002					
4/17/2018	<0.0002	<0.0002	<0.0002	<0.0002					
10/1/2018			<0.0002	<0.0002					
10/4/2018	<0.0002	<0.0002							
4/1/2019			<0.0002	<0.0002					
4/2/2019	<0.0002	<0.0002							
9/17/2019			<0.0002	<0.0002					
9/18/2019	<0.0002	<0.0002							
2/17/2020				<0.0002					
2/25/2020			<0.0002						
2/26/2020	<0.0002	<0.0002							
7/28/2020	<0.0002	<0.0002							
7/29/2020			<0.0002	<0.0002					
4/5/2021				<0.0002					
4/6/2021			<0.0002						
4/7/2021	<0.0002	<0.0002							
4/12/2021					<0.0002	0.000114 (J)	0.000122 (J)	0.000124 (J)	
4/13/2021									<0.0002
9/21/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00012 (J)	<0.0002
9/27/2021	<0.0002	<0.0002							
4/19/2022					<0.0002	<0.0002	<0.0002	0.0001 (J)	7E-05 (J)
5/2/2022			<0.0002	<0.0002					
5/3/2022	<0.0002	<0.0002							

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					0.0107 (J)	<0.02			
3/29/2016							0.0774		0.646
3/30/2016	<0.02	<0.02	<0.02	<0.02					
5/17/2016	<0.02				<0.02		0.0738		0.613
5/18/2016		<0.02	<0.02	<0.02					
5/19/2016						<0.02			
7/11/2016					<0.02	0.0133 (J)			
7/13/2016	<0.02	<0.02	<0.02						
7/14/2016				<0.02			0.0788		0.616
7/18/2016									
8/22/2016						0.0167 (J)			
9/12/2016			<0.02	<0.02					
9/13/2016	<0.02	<0.02			<0.02		0.0748		0.592
9/14/2016						0.019 (J)			
11/14/2016		<0.02	<0.02	<0.02			0.0851		
11/15/2016	<0.02				<0.02	0.024 (J)			
11/16/2016									0.603
1/3/2017						0.0305 (J)			
2/27/2017					<0.02	0.038 (J)			
2/28/2017	<0.02	<0.02	<0.02	<0.02			0.0766		0.562
5/22/2017	<0.02	<0.02				0.0451 (J)			
5/24/2017			<0.02	<0.02	<0.02		0.0722		0.561
6/19/2017	<0.02	<0.02					0.0693		0.543
6/20/2017						0.043 (J)			
6/21/2017			<0.02	<0.02	<0.02				
1/9/2018		<0.02	<0.02	<0.02	<0.02	0.0595	0.0781		0.621
1/10/2018	<0.02								
4/16/2018	<0.02	<0.02	<0.02						
4/19/2018				<0.02	<0.02	0.0793	0.0752		0.591
10/1/2018							0.076		0.628
10/2/2018	<0.02								
10/4/2018		<0.02	<0.02						
10/5/2018				<0.02	<0.02	0.113			
12/17/2018									
2/25/2019								0.298	
2/27/2019									
4/3/2019	<0.02	<0.02	<0.02	<0.02	<0.02	0.149	0.0814		0.716
5/7/2019						0.164			
9/16/2019	<0.02	<0.02	<0.02				0.0926	0.312	
9/17/2019				<0.02	<0.02				0.785
9/18/2019						0.186			
2/17/2020	<0.02	<0.02							
2/18/2020			<0.02						
2/19/2020				<0.02	<0.02				
2/25/2020						0.0848	0.0951	0.318	
2/26/2020									0.752
7/22/2020	<0.02	<0.02							
7/23/2020					<0.02				
7/27/2020			<0.02	<0.02					
7/28/2020						0.0559	0.0903	0.307	
7/29/2020									0.731
4/5/2021	<0.02	<0.02	<0.02				0.111	0.319	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<0.02	<0.02	0.0423			1.01
9/21/2021	<0.02	<0.02							
9/22/2021			<0.02	<0.02	<0.02				
9/28/2021						0.0326	0.126	0.318	
9/29/2021									1.03
4/20/2022									1.02
4/26/2022									
4/27/2022					<0.02		0.127	0.339	
5/2/2022	<0.02	<0.02		<0.02		0.0278			
5/3/2022			<0.02						

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			0.0396 (J)
3/30/2016			
5/17/2016			0.04 (J)
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			0.0439 (J)
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			0.0371 (J)
11/14/2016			0.0398 (J)
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.032 (J)
5/22/2017			
5/24/2017			0.0331 (J)
6/19/2017			0.0342 (J)
6/20/2017			
6/21/2017			
1/9/2018			0.0382 (J)
1/10/2018			
4/16/2018			
4/19/2018			0.0358 (J)
10/1/2018			0.0386
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.0898		
2/25/2019			
2/27/2019		0.364	
4/3/2019			0.0393
5/7/2019			
9/16/2019			
9/17/2019		0.432	
9/18/2019	0.129		0.0492
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			0.0465
2/26/2020	0.193	0.465	
7/22/2020			0.0507
7/23/2020	0.153	0.405	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	0.251	0.522	0.05
9/21/2021			
9/22/2021			
9/28/2021			0.0506
9/29/2021	0.196	0.467	
4/20/2022	0.233		
4/26/2022		0.505	0.0464
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.02	<0.02							
3/29/2016			0.118						
5/18/2016	<0.02	<0.02	0.12						
7/11/2016		<0.02							
7/13/2016	<0.02		0.135			<0.02			
7/14/2016							<0.02		
8/22/2016						<0.02	<0.02		
9/13/2016	<0.02					<0.02	<0.02		
9/14/2016		<0.02	0.115						
11/14/2016			0.114						
11/15/2016						<0.02	<0.02		
11/16/2016	<0.02	<0.02							
1/3/2017						<0.02	<0.02		
2/27/2017	<0.02								
2/28/2017			0.0991						
3/1/2017		<0.02				<0.02	<0.02		
5/22/2017	<0.02								
5/23/2017		<0.02				<0.02	<0.02		
5/24/2017			0.103						
6/19/2017		<0.02	0.104						
6/20/2017						<0.02	<0.02		
6/21/2017	<0.02								
1/9/2018			0.112				<0.02		
1/10/2018	<0.02	<0.02				<0.02			
4/17/2018						<0.02	<0.02		
4/19/2018	<0.02	<0.02	0.106						
10/1/2018			0.11						
10/2/2018	<0.02								
10/3/2018		<0.02							
10/4/2018						<0.02	<0.02		
12/5/2018								<0.02	<0.02
12/6/2018									
12/13/2018				<0.02					
2/26/2019									
2/27/2019					0.0372				
4/1/2019	<0.02	<0.02							
4/2/2019						<0.02	<0.02		
4/3/2019			0.115						
9/16/2019									
9/17/2019									<0.02
9/18/2019	<0.02	<0.02	0.131	0.0108 (J)	0.0399	<0.02	<0.02	<0.02	
2/18/2020	<0.02								
2/19/2020								<0.02	<0.02
2/25/2020			0.137	0.0117 (J)	0.0421				
2/26/2020						<0.02	<0.02		
7/21/2020								<0.02	<0.02
7/22/2020			0.125	<0.02	0.0423				
7/27/2020	<0.02								
7/28/2020						<0.02	<0.02		
7/29/2020									
4/5/2021	<0.02								
4/6/2021								<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						<0.02	<0.02		
4/12/2021			0.139	0.00768 (J)	0.0463				
9/21/2021								<0.02	<0.02
9/22/2021	<0.02								
9/27/2021						<0.02	<0.02		
9/28/2021			0.137	0.00723 (J)	0.0451				
4/19/2022	<0.02				0.0416				
4/20/2022			0.119	0.00728 (J)				<0.02	<0.02
4/27/2022									
5/2/2022									
5/3/2022						<0.02	<0.02		

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.02	
12/6/2018	<0.02		
12/13/2018			
2/26/2019			0.132
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			0.141
9/17/2019			
9/18/2019	<0.02	<0.02	
2/18/2020			
2/19/2020	<0.02		
2/25/2020		<0.02	0.14
2/26/2020			
7/21/2020		<0.02	
7/22/2020	<0.02		
7/27/2020			
7/28/2020			
7/29/2020			0.147
4/5/2021			0.148
4/6/2021		<0.02	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.02		
4/12/2021			
9/21/2021		<0.02	
9/22/2021	<0.02		
9/27/2021			
9/28/2021			0.142
4/19/2022			
4/20/2022	<0.02		
4/27/2022			0.145
5/2/2022		<0.02	
5/3/2022			

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.02							
3/30/2016									
5/17/2016		<0.02							
5/23/2016									
7/11/2016		<0.02							
7/14/2016									
9/13/2016									
9/14/2016		<0.02							
11/15/2016									
11/16/2016		<0.02							
2/28/2017									
3/1/2017		<0.02							
5/23/2017		<0.02							
5/24/2017									
6/19/2017		<0.02							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.02							
4/17/2018									
4/19/2018		<0.02							
10/1/2018									
10/3/2018		<0.02							
2/26/2019	0.277								
4/2/2019		<0.02							
9/17/2019	0.289	<0.02							
9/18/2019									
9/26/2019	0.302								
10/22/2019			<0.02						
2/18/2020									
2/19/2020		<0.02	0.0107 (J)				0.038		
2/25/2020	0.307					0.164			
2/26/2020					0.0717				
4/29/2020				<0.02				<0.02	0.0284
7/20/2020					0.0659				0.0358
7/21/2020						0.127	0.0378	<0.02	
7/23/2020			<0.02						
7/27/2020		<0.02		<0.02					
7/28/2020									
7/29/2020	0.303								
3/30/2021					0.07	0.12	0.0396	<0.02	0.0297
4/5/2021	0.323	<0.02		<0.02					
4/6/2021			<0.02						
4/7/2021									
9/22/2021						0.0901			0.0246
9/27/2021		<0.02			0.0706				
9/28/2021	0.302								
9/29/2021			<0.02	<0.02			0.0365	<0.02	
4/26/2022	0.309				0.0637	0.0711			0.018 (J)
4/27/2022				<0.02			0.036	<0.02	
5/2/2022			<0.02						
5/3/2022		<0.02							

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		0.015 (J)	0.0307 (J)
5/17/2016		<0.02	
5/23/2016			0.0374 (J)
7/11/2016		<0.02	
7/14/2016			0.0499 (J)
9/13/2016			0.0438 (J)
9/14/2016		<0.02	
11/15/2016			0.0494 (J)
11/16/2016		<0.02	
2/28/2017		<0.02	
3/1/2017			0.0426 (J)
5/23/2017			0.0416 (J)
5/24/2017		<0.02	
6/19/2017			
6/20/2017			0.0376 (J)
6/21/2017		<0.02	
1/9/2018			0.0461 (J)
1/10/2018		<0.02	
4/17/2018			0.0319 (J)
4/19/2018		<0.02	
10/1/2018			0.0482
10/3/2018		<0.02	
2/26/2019			
4/2/2019		<0.02	0.0242
9/17/2019		<0.02	
9/18/2019			0.043
9/26/2019			
10/22/2019			
2/18/2020		<0.02	
2/19/2020			
2/25/2020			
2/26/2020			<0.02
4/29/2020	0.0377		
7/20/2020	0.0522		
7/21/2020			
7/23/2020			
7/27/2020		<0.02	
7/28/2020			0.0361
7/29/2020			
3/30/2021	0.0615		
4/5/2021		<0.02	
4/6/2021			
4/7/2021			0.01 (J)
9/22/2021			
9/27/2021	0.061	<0.02	0.00862 (J)
9/28/2021			
9/29/2021			
4/26/2022	0.0446		
4/27/2022			
5/2/2022		<0.02	
5/3/2022			<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.02						
3/30/2016	<0.02	<0.02							
4/4/2016				<0.02					
5/19/2016	<0.02	<0.02							
5/23/2016			<0.02	<0.02					
7/12/2016			<0.02	<0.02					
7/13/2016	<0.02	<0.02							
9/13/2016	<0.02	<0.02	<0.02	<0.02					
11/15/2016	<0.02	<0.02	<0.02	<0.02					
2/28/2017			<0.02	<0.02					
3/1/2017	<0.02	<0.02							
5/23/2017	<0.02	<0.02							
5/24/2017			<0.02	<0.02					
6/20/2017	<0.02	<0.02	<0.02	<0.02					
1/10/2018	<0.02	<0.02	<0.02	<0.02					
4/17/2018	<0.02	<0.02	<0.02	<0.02					
10/1/2018			<0.02	<0.02					
10/4/2018	<0.02	<0.02							
4/1/2019			<0.02	<0.02					
4/2/2019	<0.02	<0.02							
9/17/2019			<0.02	<0.02					
9/18/2019	<0.02	<0.02							
2/17/2020				<0.02					
2/25/2020			<0.02						
2/26/2020	<0.02	<0.02							
7/28/2020	<0.02	<0.02							
7/29/2020			<0.02	<0.02					
4/5/2021				<0.02					
4/6/2021			<0.02						
4/7/2021	<0.02	<0.02							
4/12/2021					<0.02	<0.02	<0.02	<0.02	
4/13/2021									<0.02
9/21/2021			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
9/27/2021	<0.02	<0.02							
4/19/2022					<0.02	<0.02	<0.02	<0.02	<0.02
5/2/2022			<0.02	<0.02					
5/3/2022	0.0178 (J)	<0.02							

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					<0.0005	<0.0005			
3/29/2016							<0.0005		<0.0005
3/30/2016	<0.0005	<0.0005	<0.0005	<0.0005					
5/17/2016	<0.0005				<0.0005		<0.0005		<0.0005
5/18/2016		<0.0005	<0.0005	<0.0005					
5/19/2016						<0.0005			
7/11/2016					<0.0005	<0.0005			
7/13/2016	<0.0005	<0.0005	<0.0005						
7/14/2016				<0.0005			<0.0005		<0.0005
7/18/2016									
8/22/2016						<0.0005			
9/12/2016			<0.0005	<0.0005					
9/13/2016	<0.0005	<0.0005			<0.0005		<0.0005		<0.0005
9/14/2016						<0.0005			
11/14/2016		<0.0005	<0.0005	<0.0005			<0.0005		
11/15/2016	<0.0005				<0.0005	<0.0005			
11/16/2016									<0.0005
1/3/2017						<0.0005			
2/27/2017					<0.0005	<0.0005			
2/28/2017	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005		<0.0005
5/22/2017	<0.0005	<0.0005				<0.0005			
5/24/2017			<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
6/19/2017	<0.0005	<0.0005					<0.0005		<0.0005
6/20/2017						<0.0005			
6/21/2017			<0.0005	<0.0005	<0.0005				
1/9/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
1/10/2018	<0.0005								
4/16/2018	<0.0005	<0.0005	<0.0005						
4/19/2018				<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
10/1/2018							<0.0005		<0.0005
10/2/2018	<0.0005								
10/4/2018		<0.0005	<0.0005						
10/5/2018				<0.0005	<0.0005	<0.0005			
12/17/2018									
2/25/2019								<0.0005	
2/27/2019									
4/3/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
5/7/2019						<0.0005			
9/16/2019	<0.0005	<0.0005	<0.0005				<0.0005	<0.0005	
9/17/2019				<0.0005	<0.0005				<0.0005
9/18/2019						<0.0005			
2/17/2020	<0.0005	<0.0005							
2/18/2020			<0.0005						
2/19/2020				<0.0005	<0.0005				
2/25/2020						<0.0005	<0.0005	<0.0005	
2/26/2020									<0.0005
7/22/2020	<0.0005	<0.0005							
7/23/2020					<0.0005				
7/27/2020			<0.0005	<0.0005					
7/28/2020						<0.0005	<0.0005	<0.0005	
7/29/2020									<0.0005
4/5/2021	<0.0005	<0.0005	<0.0005				<0.0005	<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<0.0005	<0.0005	<0.0005			<0.0005
9/21/2021	<0.0005	<0.0005							
9/22/2021			<0.0005	<0.0005	<0.0005				
9/28/2021						<0.0005	<0.0005	<0.0005	
9/29/2021									<0.0005
4/20/2022									<0.0005
4/26/2022									
4/27/2022					<0.0005		<0.0005	<0.0005	
5/2/2022	<0.0005	<0.0005		<0.0005		<0.0005			
5/3/2022			<0.0005						

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			<0.0005
3/30/2016			
5/17/2016			<0.0005
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.0005
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.0005
11/14/2016			<0.0005
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.0005
5/22/2017			
5/24/2017			<0.0005
6/19/2017			<0.0005
6/20/2017			
6/21/2017			
1/9/2018			<0.0005
1/10/2018			
4/16/2018			
4/19/2018			<0.0005
10/1/2018			<0.0005
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.0005		
2/25/2019			
2/27/2019		<0.0005	
4/3/2019			<0.0005
5/7/2019			
9/16/2019			
9/17/2019		<0.0005	
9/18/2019	<0.0005		<0.0005
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.0005
2/26/2020	<0.0005	<0.0005	
7/22/2020			<0.0005
7/23/2020	<0.0005	<0.0005	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.0005	<0.0005	<0.0005
9/21/2021			
9/22/2021			
9/28/2021			<0.0005
9/29/2021	<0.0005	<0.0005	
4/20/2022	<0.0005		
4/26/2022		<0.0005	<0.0005
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.0005	<0.0005							
3/29/2016			<0.0005						
5/18/2016	<0.0005	<0.0005	<0.0005						
7/11/2016		<0.0005							
7/13/2016	<0.0005		<0.0005			<0.0005			
7/14/2016							<0.0005		
8/22/2016						<0.0005	<0.0005		
9/13/2016	<0.0005					<0.0005	<0.0005		
9/14/2016		<0.0005	<0.0005						
11/14/2016			<0.0005						
11/15/2016						<0.0005	<0.0005		
11/16/2016	<0.0005	<0.0005							
1/3/2017						<0.0005	<0.0005		
2/27/2017	<0.0005								
2/28/2017			<0.0005						
3/1/2017		<0.0005				<0.0005	<0.0005		
5/22/2017	<0.0005								
5/23/2017		<0.0005				<0.0005	<0.0005		
5/24/2017			<0.0005						
6/19/2017		<0.0005	<0.0005						
6/20/2017						<0.0005	<0.0005		
6/21/2017	<0.0005								
1/9/2018			<0.0005				<0.0005		
1/10/2018	<0.0005	<0.0005				<0.0005			
4/17/2018						<0.0005	<0.0005		
4/19/2018	<0.0005	<0.0005	<0.0005						
10/1/2018			<0.0005						
10/2/2018	<0.0005								
10/3/2018		<0.0005							
10/4/2018						<0.0005	<0.0005		
12/5/2018								<0.0005	<0.0005
12/6/2018									
12/13/2018				<0.0005					
2/26/2019									
2/27/2019					<0.0005				
4/1/2019	<0.0005	<0.0005							
4/2/2019						<0.0005	<0.0005		
4/3/2019			<0.0005						
9/16/2019									
9/17/2019									<0.0005
9/18/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/18/2020	<0.0005								
2/19/2020								<0.0005	<0.0005
2/25/2020			<0.0005	<0.0005	<0.0005				
2/26/2020						<0.0005	<0.0005		
7/21/2020								<0.0005	<0.0005
7/22/2020			<0.0005	<0.0005	<0.0005				
7/27/2020	<0.0005								
7/28/2020						<0.0005	<0.0005		
7/29/2020									
4/5/2021	<0.0005								
4/6/2021								<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						<0.0005	<0.0005		
4/12/2021			<0.0005	<0.0005	<0.0005				
9/21/2021								<0.0005	<0.0005
9/22/2021	<0.0005								
9/27/2021						<0.0005	<0.0005		
9/28/2021			<0.0005	<0.0005	<0.0005				
4/19/2022	<0.0005				<0.0005				
4/20/2022			<0.0005	<0.0005				<0.0005	<0.0005
4/27/2022									
5/2/2022									
5/3/2022						<0.0005	<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.0005	
12/6/2018	<0.0005		
12/13/2018			
2/26/2019			<0.0005
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.0005
9/17/2019			
9/18/2019	<0.0005	<0.0005	
2/18/2020			
2/19/2020	<0.0005		
2/25/2020		<0.0005	<0.0005
2/26/2020			
7/21/2020		<0.0005	
7/22/2020	<0.0005		
7/27/2020			
7/28/2020			
7/29/2020			<0.0005
4/5/2021			<0.0005
4/6/2021		<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.0005		
4/12/2021			
9/21/2021		<0.0005	
9/22/2021	<0.0005		
9/27/2021			
9/28/2021			<0.0005
4/19/2022			
4/20/2022	<0.0005		
4/27/2022			<0.0005
5/2/2022		<0.0005	
5/3/2022			

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.0005							
3/30/2016									
5/17/2016		<0.0005							
5/23/2016									
7/11/2016		<0.0005							
7/14/2016									
9/13/2016									
9/14/2016		<0.0005							
11/15/2016									
11/16/2016		<0.0005							
2/28/2017									
3/1/2017		<0.0005							
5/23/2017		<0.0005							
5/24/2017									
6/19/2017		<0.0005							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.0005							
4/17/2018									
4/19/2018		<0.0005							
10/1/2018									
10/3/2018		<0.0005							
2/26/2019	<0.0005								
4/2/2019		<0.0005							
9/17/2019	<0.0005	<0.0005							
9/18/2019									
9/26/2019	<0.0005								
10/22/2019			<0.0005						
2/18/2020									
2/19/2020		<0.0005	<0.0005				<0.0005		
2/25/2020	<0.0005					<0.0005			
2/26/2020					<0.0005				
4/29/2020				<0.0005				<0.0005	<0.0005
7/20/2020					<0.0005				<0.0005
7/21/2020						<0.0005	<0.0005	<0.0005	
7/23/2020			<0.0005						
7/27/2020		<0.0005		<0.0005					
7/28/2020									
7/29/2020	<0.0005								
3/30/2021					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/5/2021	<0.0005	<0.0005		<0.0005					
4/6/2021			<0.0005						
4/7/2021									
9/22/2021						<0.0005			<0.0005
9/27/2021		<0.0005			<0.0005				
9/28/2021	<0.0005								
9/29/2021			<0.0005	<0.0005			<0.0005	<0.0005	
4/26/2022	<0.0005				<0.0005	<0.0005			<0.0005
4/27/2022				<0.0005			<0.0005	<0.0005	
5/2/2022			<0.0005						
5/3/2022		<0.0005							

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		0.000278 (J)	<0.0005
5/17/2016		<0.0005	
5/23/2016			<0.0005
7/11/2016		<0.0005	
7/14/2016			<0.0005
9/13/2016			<0.0005
9/14/2016		<0.0005	
11/15/2016			<0.0005
11/16/2016		<0.0005	
2/28/2017		<0.0005	
3/1/2017			<0.0005
5/23/2017			<0.0005
5/24/2017		<0.0005	
6/19/2017			
6/20/2017			<0.0005
6/21/2017		<0.0005	
1/9/2018			<0.0005
1/10/2018		<0.0005	
4/17/2018			<0.0005
4/19/2018		<0.0005	
10/1/2018			<0.0005
10/3/2018		<0.0005	
2/26/2019			
4/2/2019		<0.0005	<0.0005
9/17/2019		<0.0005	
9/18/2019			<0.0005
9/26/2019			
10/22/2019			
2/18/2020		<0.0005	
2/19/2020			
2/25/2020			
2/26/2020			<0.0005
4/29/2020	<0.0005		
7/20/2020	<0.0005		
7/21/2020			
7/23/2020			
7/27/2020		<0.0005	
7/28/2020			<0.0005
7/29/2020			
3/30/2021	<0.0005		
4/5/2021		<0.0005	
4/6/2021			
4/7/2021			<0.0005
9/22/2021			
9/27/2021	<0.0005	<0.0005	<0.0005
9/28/2021			
9/29/2021			
4/26/2022	<0.0005		
4/27/2022			
5/2/2022		<0.0005	
5/3/2022			<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.0005						
3/30/2016	<0.0005	<0.0005							
4/4/2016				<0.0005					
5/19/2016	<0.0005	<0.0005							
5/23/2016			<0.0005	<0.0005					
7/12/2016			<0.0005	<0.0005					
7/13/2016	<0.0005	<0.0005							
9/13/2016	<0.0005	<0.0005	<0.0005	<0.0005					
11/15/2016	<0.0005	<0.0005	<0.0005	<0.0005					
2/28/2017			<0.0005	<0.0005					
3/1/2017	<0.0005	<0.0005							
5/23/2017	<0.0005	<0.0005							
5/24/2017			<0.0005	<0.0005					
6/20/2017	<0.0005	<0.0005	<0.0005	<0.0005					
1/10/2018	<0.0005	<0.0005	<0.0005	<0.0005					
4/17/2018	<0.0005	<0.0005	<0.0005	<0.0005					
10/1/2018			<0.0005	<0.0005					
10/4/2018	<0.0005	<0.0005							
4/1/2019			<0.0005	<0.0005					
4/2/2019	<0.0005	<0.0005							
9/17/2019			<0.0005	<0.0005					
9/18/2019	<0.0005	<0.0005							
2/17/2020				<0.0005					
2/25/2020			<0.0005						
2/26/2020	<0.0005	<0.0005							
7/28/2020	<0.0005	<0.0005							
7/29/2020			<0.0005	<0.0005					
4/5/2021				<0.0005					
4/6/2021			<0.0005						
4/7/2021	<0.0005	<0.0005							
4/12/2021					<0.0005	<0.0005	<0.0005	<0.0005	
4/13/2021									<0.0005
9/21/2021			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/27/2021	<0.0005	<0.0005							
4/19/2022					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
5/2/2022			<0.0005	<0.0005					
5/3/2022	<0.0005	<0.0005							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					<0.0002	0.0126			
3/29/2016							0.288		2.19
3/30/2016	<0.0002	<0.0002	<0.0002	<0.0002					
5/17/2016	<0.0002				<0.0002		0.269		2.24
5/18/2016		<0.0002	<0.0002	<0.0002					
5/19/2016						0.0142			
7/11/2016					0.00361 (J)	0.0542			
7/13/2016	<0.0002	<0.0002	<0.0002						
7/14/2016				<0.0002			0.305		2.1
7/18/2016									
8/22/2016						0.0577			
9/12/2016			<0.0002	<0.0002					
9/13/2016	<0.0002	<0.0002			<0.0002		0.306		2.3
9/14/2016						0.0627			
11/14/2016		<0.0002	<0.0002	<0.0002			0.305		
11/15/2016	<0.0002				<0.0002	0.0712			
11/16/2016									1.92
1/3/2017						0.0788			
2/27/2017					<0.0002	0.121			
2/28/2017	<0.0002	<0.0002	<0.0002	<0.0002			0.368		2.6
5/22/2017	<0.0002	<0.0002				0.117			
5/24/2017			<0.0002	<0.0002	<0.0002		0.275		1.77
6/19/2017	<0.0002	<0.0002					0.26		1.9
6/20/2017						0.121			
6/21/2017			<0.0002	<0.0002	<0.0002				
1/9/2018		<0.0002	<0.0002	<0.0002	<0.0002	0.138	0.316		2.14
1/10/2018	<0.0002								
4/16/2018	<0.0002	<0.0002	<0.0002						
4/19/2018				<0.0002	<0.0002	0.141	0.275		1.87
10/1/2018							0.267		1.95
10/2/2018	<0.0002								
10/4/2018		<0.0002	<0.0002						
10/5/2018				<0.0002	<0.0002	0.214			
12/17/2018									
2/25/2019								0.667	
2/27/2019									
4/3/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.433	0.311		2.33
5/7/2019						0.292			
9/16/2019	<0.0002	<0.0002	<0.0002				0.32	0.625	
9/17/2019				<0.0002	<0.0002				2.33
9/18/2019						0.307			
2/17/2020	<0.0002	<0.0002							
2/18/2020			<0.0002						
2/19/2020				<0.0002	<0.0002				
2/25/2020						0.209	0.343	0.629	
2/26/2020									2.83
7/22/2020	<0.0002	<0.0002							
7/23/2020					<0.0002				
7/27/2020			<0.0002	<0.0002					
7/28/2020						0.167	0.328	0.628	
7/29/2020									2.79
4/5/2021	0.000248	0.00033	0.000366				0.514	0.614	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				0.000329	0.000298	0.156			3.56
9/21/2021	0.00018 (J)	0.00026							
9/22/2021			0.0003	0.00031	0.00052				
9/28/2021						0.137	0.538	0.653	
9/29/2021									3.23
4/20/2022									2.99
4/26/2022									
4/27/2022					0.00052		0.519	0.694	
5/2/2022	0.00021	0.00038		0.0003		0.144			
5/3/2022			0.00033						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			0.017
3/30/2016			
5/17/2016			0.0167
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			0.0161
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			0.0183
11/14/2016			0.0171
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.0209
5/22/2017			
5/24/2017			0.0168
6/19/2017			0.0173
6/20/2017			
6/21/2017			
1/9/2018			0.0211
1/10/2018			
4/16/2018			
4/19/2018			0.0186
10/1/2018			0.0192
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.455		
2/25/2019			
2/27/2019		1.82	
4/3/2019			0.0214
5/7/2019			
9/16/2019			
9/17/2019		1.73	
9/18/2019	0.801		0.0243
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			0.0228
2/26/2020	1.02	1.89	
7/22/2020			0.0244
7/23/2020	0.968	1.99	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	1.26	2.22	0.0307
9/21/2021			
9/22/2021			
9/28/2021			0.0592
9/29/2021	1.11	2.12	
4/20/2022	1.17		
4/26/2022		2.06	0.0598
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	0.0157	0.00274 (J)							
3/29/2016			0.637						
5/18/2016	0.0125	<0.0002	0.657						
7/11/2016		<0.0002							
7/13/2016	0.0138		0.774			0.0119			
7/14/2016							0.0633		
8/22/2016						0.00256 (J)	0.0436		
9/13/2016	0.0127					0.00628 (J)	0.069		
9/14/2016		<0.0002	0.725						
11/14/2016			0.63						
11/15/2016						0.0105	0.094		
11/16/2016	0.0118	0.00215 (J)							
1/3/2017						0.0131	0.0783		
2/27/2017	0.0145								
2/28/2017			0.767						
3/1/2017		<0.0002				0.00593 (J)	0.0627		
5/22/2017	0.0122								
5/23/2017		<0.0002				0.00491 (J)	0.0684		
5/24/2017			0.623						
6/19/2017		<0.0002	0.667						
6/20/2017						0.00392 (J)	0.0637		
6/21/2017	0.0123								
1/9/2018			0.803				0.0789		
1/10/2018	0.0127	<0.0002				0.0126			
4/17/2018						0.00623 (J)	0.0638		
4/19/2018	0.0111	<0.0002	0.689						
10/1/2018			0.775						
10/2/2018	0.0113								
10/3/2018		<0.0002							
10/4/2018						0.0159	0.0698		
12/5/2018								0.00995 (J)	0.0169
12/6/2018									
12/13/2018				0.118					
2/26/2019									
2/27/2019					0.287				
4/1/2019	0.0132	<0.0002							
4/2/2019						0.00611 (J)	0.0703		
4/3/2019			0.803						
9/16/2019									
9/17/2019									0.0142
9/18/2019	0.0128	<0.0002	0.837	0.264	0.271	0.0172	0.0895	0.0054 (J)	
2/18/2020	0.0129								
2/19/2020								0.0077 (J)	0.0274
2/25/2020			0.813	0.257	0.281				
2/26/2020						0.0139	0.0691		
7/21/2020								0.00231 (J)	0.0181
7/22/2020			0.784	0.147	0.288				
7/27/2020	0.0133								
7/28/2020						0.00969 (J)	0.0677		
7/29/2020									
4/5/2021	0.0137								
4/6/2021								0.00163	0.0175

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						0.00838	0.0456		
4/12/2021			0.811	0.146	0.311				
9/21/2021								0.00537	0.0146
9/22/2021	0.0136								
9/27/2021						0.00769	0.0388		
9/28/2021			0.845	0.147	0.324				
4/19/2022	0.0146				0.338				
4/20/2022			0.84	0.174				0.00098	0.0172
4/27/2022									
5/2/2022									
5/3/2022						0.0116	0.0342		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		0.00824 (J)	
12/6/2018	<0.0002		
12/13/2018			
2/26/2019			0.465
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			0.469
9/17/2019			
9/18/2019	<0.0002	0.0187	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		0.00511 (J)	0.464
2/26/2020			
7/21/2020		0.0141	
7/22/2020	0.0027 (J)		
7/27/2020			
7/28/2020			
7/29/2020			0.483
4/5/2021			0.471
4/6/2021		0.00355	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	0.00202		
4/12/2021			
9/21/2021		0.00298	
9/22/2021	0.00244		
9/27/2021			
9/28/2021			0.491
4/19/2022			
4/20/2022	0.00235		
4/27/2022			0.487
5/2/2022		0.00501	
5/3/2022			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		0.00652 (J)							
3/30/2016									
5/17/2016		0.00651 (J)							
5/23/2016									
7/11/2016		0.00691 (J)							
7/14/2016									
9/13/2016									
9/14/2016		0.0074 (J)							
11/15/2016									
11/16/2016		0.00663 (J)							
2/28/2017									
3/1/2017		0.00856 (J)							
5/23/2017		0.00689 (J)							
5/24/2017									
6/19/2017		0.00687 (J)							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		0.00806 (J)							
4/17/2018									
4/19/2018		0.00659 (J)							
10/1/2018									
10/3/2018		0.00669 (J)							
2/26/2019	1.08								
4/2/2019		0.00766 (J)							
9/17/2019	1.04	0.00644 (J)							
9/18/2019									
9/26/2019	0.936								
10/22/2019			0.00346 (J)						
2/18/2020									
2/19/2020		0.00575 (J)	0.00389 (J)				0.344		
2/25/2020	1.09					0.126			
2/26/2020					0.259				
4/29/2020				0.0456				0.0266	0.0994
7/20/2020					0.0857				0.0698
7/21/2020						0.0306	0.352	0.0268	
7/23/2020			0.00248 (J)						
7/27/2020		0.0058 (J)		0.0199					
7/28/2020									
7/29/2020	0.999								
3/30/2021					0.0352	0.0174	0.273	0.0205	0.0663
4/5/2021	1.01	0.00538		0.0133					
4/6/2021			0.00231						
4/7/2021									
9/22/2021						0.0124			0.0506
9/27/2021		0.00469			0.0407				
9/28/2021	1.01								
9/29/2021			0.00213	0.0129			0.209	0.0199	
4/26/2022	1.06				0.0332	0.0292			0.0459
4/27/2022				0.0199			0.286	0.0128	
5/2/2022			0.00195						
5/3/2022		0.00439							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		<0.0002	0.205
5/17/2016		<0.0002	
5/23/2016			0.257
7/11/2016		<0.0002	
7/14/2016			0.273
9/13/2016			0.313
9/14/2016		<0.0002	
11/15/2016			0.314
11/16/2016		<0.0002	
2/28/2017		<0.0002	
3/1/2017			0.344
5/23/2017			0.287
5/24/2017		<0.0002	
6/19/2017			
6/20/2017			0.265
6/21/2017		<0.0002	
1/9/2018			0.352
1/10/2018		<0.0002	
4/17/2018			0.135
4/19/2018		<0.0002	
10/1/2018			0.294
10/3/2018		<0.0002	
2/26/2019			
4/2/2019		<0.0002	0.164
9/17/2019		<0.0002	
9/18/2019			0.261
9/26/2019			
10/22/2019			
2/18/2020		<0.0002	
2/19/2020			
2/25/2020			
2/26/2020			0.0546
4/29/2020	0.208		
7/20/2020	0.213		
7/21/2020			
7/23/2020			
7/27/2020		<0.0002	
7/28/2020			0.215
7/29/2020			
3/30/2021	0.227		
4/5/2021		0.000137 (J)	
4/6/2021			
4/7/2021			0.0562
9/22/2021			
9/27/2021	0.221	0.00026	0.0541
9/28/2021			
9/29/2021			
4/26/2022	0.176		
4/27/2022			
5/2/2022		0.0003	
5/3/2022			0.0389

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			0.0042 (J)						
3/30/2016	0.0186	<0.0002							
4/4/2016				0.00344 (J)					
5/19/2016	0.0188	<0.0002							
5/23/2016			0.00283 (J)	0.00306 (J)					
7/12/2016			<0.0002	<0.0002					
7/13/2016	0.017	<0.0002							
9/13/2016	0.00943 (J)	<0.0002	<0.0002	<0.0002					
11/15/2016	0.00741 (J)	<0.0002	<0.0002	<0.0002					
2/28/2017			<0.0002	<0.0002					
3/1/2017	0.0146	<0.0002							
5/23/2017	0.00996 (J)	<0.0002							
5/24/2017			<0.0002	0.00364 (J)					
6/20/2017	0.0148	<0.0002	<0.0002	0.00282 (J)					
1/10/2018	0.0122	<0.0002	<0.0002	<0.0002					
4/17/2018	0.0146	<0.0002	<0.0002	<0.0002					
10/1/2018			<0.0002	<0.0002					
10/4/2018	0.0101	<0.0002							
4/1/2019			<0.0002	<0.0002					
4/2/2019	0.0166	<0.0002							
9/17/2019			<0.0002	<0.0002					
9/18/2019	0.0138	<0.0002							
2/17/2020				<0.0002					
2/25/2020			<0.0002						
2/26/2020	0.0157	<0.0002							
7/28/2020	0.0185	<0.0002							
7/29/2020			<0.0002	<0.0002					
4/5/2021				0.000821					
4/6/2021			0.000895						
4/7/2021	0.0119	0.00021							
4/12/2021					0.00167	0.000473	<0.0002	0.000402	
4/13/2021									0.000176 (J)
9/21/2021			0.00072	0.00102	0.00088	0.00019 (J)	<0.0002	0.00017 (J)	0.00015 (J)
9/27/2021	0.0118	0.00026							
4/19/2022					0.00074	0.00012 (J)	<0.0002	0.0002 (J)	0.00013 (J)
5/2/2022			0.00107	0.0012					
5/3/2022	0.00912	0.00024							

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					7.34	7.43			
3/29/2016							8.15		9.66
3/30/2016	7.45	7.63	7.39	7.27					
5/17/2016	7.68				7.22		8.18		9.56
5/18/2016		7.64	7.34	7.37					
5/19/2016						7.43			
7/11/2016					7.32	7.58			
7/13/2016	7.71	7.84	7.52						
7/14/2016				7.51			8.23		9.63
7/18/2016									
8/22/2016						7.56			
9/12/2016			7.39	7.39					
9/13/2016	7.53	7.69			7.35		8.25		9.57
9/14/2016						7.52			
11/14/2016		7.7	7.42	7.37			8.31		
11/15/2016	7.53				7.32	7.57			
11/16/2016									9.59
1/3/2017						7.62			
2/27/2017					7.38	7.52			
2/28/2017	7.58	7.79	7.46	7.32			8.31		9.56
5/22/2017	7.51	7.72				7.52			
5/24/2017			7.39	7.44	7.41		8.22		9.71
6/19/2017	7.53	7.73					8.18		9.67
6/20/2017						7.46			
6/21/2017			7.36	7.39	7.26				
8/14/2017	7.52	7.67	7.36	7.39		7.57	8.32		9.62
8/15/2017					7.33				
1/9/2018		7.82	7.45	7.5	7.5	7.64	8.21		9.77
1/10/2018	7.64								
4/16/2018	7.54	7.71	7.36						
4/19/2018				7.38	7.48	7.51	8.28		9.59
10/1/2018							8.14		9.48
10/2/2018	7.54								
10/4/2018		7.71	7.37						
10/5/2018				7.25	7.05	7.33			
12/17/2018									
2/25/2019								8.67	
2/27/2019									
4/3/2019	7.6	7.75	7.37	7.41	7.43	7.7	8.3		9.56
5/7/2019						7.57			
9/16/2019	7.6	7.71	7.44				7.94	8.32	
9/17/2019				7.45	7.3				9.18
9/18/2019						7.5			
10/8/2019	7.59	7.74							
2/17/2020	7.61	7.74							
2/18/2020			7.42						
2/19/2020				7.42	7.52				
2/25/2020						7.64	8.38	8.61	
2/26/2020									9.61
7/22/2020	7.64	7.76							
7/23/2020					7.44				
7/27/2020			7.47	7.48					

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
7/28/2020						7.5	8.02	8.09	
7/29/2020									9.38
4/5/2021	6.93	7.63	6.88				7.76	8.54	
4/6/2021				7.5	7.51	7.64			9.59
9/21/2021	7.02	7.64							
9/22/2021			7.48	7.59	7.5				
9/28/2021						7.63	8.2	8.59	
9/29/2021									9.33
4/20/2022									9.25
4/26/2022									
4/27/2022					7.07		8.17	8.45	
5/2/2022	7.12	7.16		7.46		7.49			
5/3/2022			7.39						

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			6.95
3/30/2016			
5/17/2016			6.87
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			6.85
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			6.9
11/14/2016			6.89
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			6.83
5/22/2017			
5/24/2017			6.87
6/19/2017			6.89
6/20/2017			
6/21/2017			
8/14/2017			6.89
8/15/2017			
1/9/2018			6.95
1/10/2018			
4/16/2018			
4/19/2018			6.89
10/1/2018			6.89
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	7.16		
2/25/2019			
2/27/2019		8.78	
4/3/2019			6.9
5/7/2019			
9/16/2019			
9/17/2019		8.66	
9/18/2019	7.13		6.86
10/8/2019			
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			6.89
2/26/2020	7.55	8.84	
7/22/2020			6.54
7/23/2020	7.54	8.49	
7/27/2020			

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
7/28/2020			
7/29/2020			
4/5/2021			
4/6/2021	7.56	8.6	6.67
9/21/2021			
9/22/2021			
9/28/2021			6.48
9/29/2021	7.61	8.3	
4/20/2022	7.63		
4/26/2022		8.39	6.77
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	7.24	7.79							
3/29/2016			7.96						
5/18/2016	7.5	7.73	7.88						
7/11/2016		7.99							
7/13/2016	7.63		7.92			7.83			
7/14/2016							7.74		
8/22/2016						7.86	7.55		
9/13/2016	7.53					7.75	7.63		
9/14/2016		7.75	7.85						
11/14/2016			7.84						
11/15/2016						7.66	7.74		
11/16/2016	7.55	7.64							
1/3/2017						7.57	7.69		
2/27/2017	7.53								
2/28/2017			7.81						
3/1/2017		7.65				7.53	7.47		
5/22/2017	7.5								
5/23/2017		7.67				7.78	7.5		
5/24/2017			7.65						
6/19/2017		7.65	7.79						
6/20/2017						7.82	7.37		
6/21/2017	7.51								
8/14/2017	7.43		7.82						
8/15/2017		7.69				7.73	7.26		
1/9/2018			7.87				7.49		
1/10/2018	7.5	7.8				7.67			
4/17/2018						7.66	7.33		
4/19/2018	7.5	7.54	7.85						
10/1/2018			7.82						
10/2/2018	7.57								
10/3/2018		7.68							
10/4/2018						7.51	7.47		
12/5/2018								8.29	7.18
12/6/2018									
12/13/2018				7.23					
1/2/2019				6.85				8.04	7.2
1/3/2019									
2/26/2019									
2/27/2019					8.45				
4/1/2019	7.58	7.76							
4/2/2019						7.67	7.33		
4/3/2019			7.45						
5/7/2019				7.11					
9/16/2019									
9/17/2019									6.88
9/18/2019	7.6	7.69	7.9	7.14	8.32	7.15	7.21	7.72	
2/18/2020	7.64								
2/19/2020								7.92	7.36
2/25/2020			7.9	7.16	8.31				
2/26/2020						7.43	7.33		
7/21/2020								7.63	7.28
7/22/2020			7.84	7.18	8.25				

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
7/27/2020	7.56								
7/28/2020						7.58	7.43		
7/29/2020									
4/5/2021	7.66								
4/6/2021								7.89	7.23
4/7/2021						7.24	6.7		
4/12/2021			7.96	7.02	8.14				
9/21/2021								8.08	7.27
9/22/2021	7.86								
9/27/2021						7.64	7.23		
9/28/2021			7.76	6.87	8.03				
4/19/2022	7.63				8.11				
4/20/2022			7.83	7.1				7.86	6.43
4/27/2022									
5/2/2022									
5/3/2022						7.48	7.21		

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
8/14/2017			
8/15/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		6.82	
12/6/2018	7.23		
12/13/2018			
1/2/2019			
1/3/2019	7.57	6.76	
2/26/2019			8.31
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
5/7/2019			
9/16/2019			8.22
9/17/2019			
9/18/2019	7.49	6.68	
2/18/2020			
2/19/2020	7.54		
2/25/2020		6.7	8.32
2/26/2020			
7/21/2020		6.9	
7/22/2020	7.42		

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
7/27/2020			
7/28/2020			
7/29/2020			8.3
4/5/2021			7.91
4/6/2021		6.26	
4/7/2021	7.57		
4/12/2021			
9/21/2021		6.58	
9/22/2021	7.76		
9/27/2021			
9/28/2021			8.38
4/19/2022			
4/20/2022	6.87		
4/27/2022			7.83
5/2/2022		6.74	
5/3/2022			

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		7.82							
3/30/2016									
5/17/2016		7.79							
5/23/2016									
7/11/2016		7.96							
7/14/2016									
9/13/2016									
9/14/2016		7.79							
11/15/2016									
11/16/2016		7.72							
2/28/2017									
3/1/2017		7.68							
5/23/2017		7.69							
5/24/2017									
6/19/2017		7.67							
6/20/2017									
6/21/2017									
8/15/2017		7.73							
1/9/2018									
1/10/2018		7.84							
4/17/2018									
4/19/2018		7.69							
10/1/2018									
10/3/2018		7.7							
2/26/2019	8.61								
4/2/2019		7.8							
9/17/2019		7.8							
9/18/2019									
9/26/2019	8.47								
2/18/2020									
2/19/2020		7.8	7.22				8.09		
2/25/2020	8.48					7.72			
2/26/2020					8.01				
4/29/2020				7.68				7.71	8.05
7/20/2020					7.42				8.07
7/21/2020						7.51	7.98	7.69	
7/23/2020			7.07						
7/27/2020		7.69		7.97					
7/28/2020									
7/29/2020	8.38								
3/30/2021					7.86	7.82	7.88	7.91	8.11
4/5/2021	8.16	7.67		8.19					
4/6/2021			7.15						
4/7/2021									
9/22/2021						7.78			7.93
9/27/2021		7.81			8.14				
9/28/2021	8.58								
9/29/2021			7.73	8.47			8.44	7.83	
4/26/2022	8.29				7.84	7.42			8.03
4/27/2022				7.71			7.86	8	
5/2/2022			7.14						
5/3/2022		7.72							

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		7.31	7.61
5/17/2016		7.35	
5/23/2016			7.68
7/11/2016		7.43	
7/14/2016			7.79
9/13/2016			7.69
9/14/2016		7.26	
11/15/2016			7.72
11/16/2016		7.19	
2/28/2017		7.23	
3/1/2017			7.55
5/23/2017			7.64
5/24/2017		7.26	
6/19/2017			
6/20/2017			7.5
6/21/2017		7.26	
8/15/2017		7.29	7.46
1/9/2018			7.71
1/10/2018		7.17	
4/17/2018			7.29
4/19/2018		7.27	
10/1/2018			7.68
10/3/2018		7.09	
2/26/2019			
4/2/2019		7.34	7.47
9/17/2019		7.65	
9/18/2019			7.53
9/26/2019			
2/18/2020		7.34	
2/19/2020			
2/25/2020			
2/26/2020			7.47
4/29/2020	7.94		
7/20/2020	7.8		
7/21/2020			
7/23/2020			
7/27/2020		7.3	
7/28/2020			7.7
7/29/2020			
3/30/2021	8.04		
4/5/2021		7.33	
4/6/2021			
4/7/2021			7.47
9/22/2021			
9/27/2021	7.88	7.37	7.55
9/28/2021			
9/29/2021			
4/26/2022	7.9		
4/27/2022			
5/2/2022		6.68	
5/3/2022			7.01

Time Series

Constituent: pH (pH) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			7.2						
3/30/2016	7.95	7.45							
4/4/2016				7.32					
5/19/2016	7.88	7.5							
5/23/2016			7.39	7.66					
7/12/2016			7.43	7.77					
7/13/2016	8.07	7.58							
9/13/2016	8.04	7.53	7.38	7.7					
11/15/2016	7.93	7.48	7.35	7.69					
2/28/2017			7.3	7.66					
3/1/2017	7.89	7.46							
5/23/2017	7.96	7.51							
5/24/2017			7.33	7.64					
6/20/2017	7.87	7.52	7.33	7.62					
8/15/2017	7.86	7.43	7.31						
8/16/2017				7.51					
1/10/2018	7.98	7.57	7.36	7.72					
4/17/2018	7.82	7.5	7.28	7.57					
10/1/2018			7.33	7.59					
10/4/2018	7.87	7.49							
4/1/2019			7.4	7.64					
4/2/2019	7.73	7.24							
9/17/2019			7.55	8.07					
9/18/2019	7.85	7.52							
2/17/2020				7.75					
2/25/2020			7.39						
2/26/2020	7.8	7.51							
7/28/2020	7.62	7.32							
7/29/2020			7.39	7.66					
4/5/2021				7.8					
4/6/2021			7.23						
4/7/2021	7.02	7.51							
4/12/2021					7.09	7.77	7.18	7.99	
4/13/2021									6.14
9/21/2021			7.3	7.72	7.3	7.12	7.3	7.85	6.07
9/27/2021	7.92	7.74							
4/19/2022					6.85	7.68	6.8	7.91	6.31
5/2/2022			7.44	7.7					
5/3/2022	7.63	7.53							

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					<0.00102	<0.00102			
3/29/2016							<0.00102		<0.00102
3/30/2016	<0.00102	<0.00102	<0.00102	<0.00102					
5/17/2016	<0.00102				<0.00102		<0.00102		<0.00102
5/18/2016		<0.00102	<0.00102	<0.00102					
5/19/2016						<0.00102			
7/11/2016					<0.00102	<0.00102			
7/13/2016	<0.00102	<0.00102	<0.00102						
7/14/2016				<0.00102			<0.00102		<0.00102
7/18/2016									
8/22/2016						<0.00102			
9/12/2016			<0.00102	<0.00102					
9/13/2016	<0.00102	<0.00102			<0.00102		<0.00102		<0.00102
9/14/2016						<0.00102			
11/14/2016		<0.00102	<0.00102	<0.00102			<0.00102		
11/15/2016	<0.00102				<0.00102	<0.00102			
11/16/2016									<0.00102
1/3/2017						<0.00102			
2/27/2017					<0.00102	<0.00102			
2/28/2017	<0.00102	<0.00102	<0.00102	<0.00102			<0.00102		<0.00102
5/22/2017	<0.00102	<0.00102				<0.00102			
5/24/2017			<0.00102	<0.00102	<0.00102		<0.00102		<0.00102
6/19/2017	<0.00102	<0.00102					<0.00102		<0.00102
6/20/2017						<0.00102			
6/21/2017			<0.00102	<0.00102	<0.00102				
1/9/2018		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
1/10/2018	<0.00102								
4/16/2018	<0.00102	<0.00102	<0.00102						
4/19/2018				<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
10/1/2018							<0.00102		<0.00102
10/2/2018	<0.00102								
10/4/2018		<0.00102	<0.00102						
10/5/2018				<0.00102	<0.00102	<0.00102			
12/17/2018									
2/25/2019								<0.00102	
2/27/2019									
4/3/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
5/7/2019						<0.00102			
9/16/2019	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	
9/17/2019				<0.00102	<0.00102				<0.00102
9/18/2019						<0.00102			
2/17/2020	<0.00102	<0.00102							
2/18/2020			<0.00102						
2/19/2020				<0.00102	<0.00102				
2/25/2020						<0.00102	<0.00102	<0.00102	
2/26/2020									<0.00102
7/22/2020	<0.00102	<0.00102							
7/23/2020					<0.00102				
7/27/2020			<0.00102	<0.00102					
7/28/2020						<0.00102	<0.00102	<0.00102	
7/29/2020									<0.00102
4/5/2021	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<0.00102	<0.00102	<0.00102			<0.00102
9/21/2021	<0.00102	<0.00102							
9/22/2021			<0.00102	<0.00102	<0.00102				
9/28/2021						<0.00102	<0.00102	<0.00102	
9/29/2021									<0.00102
4/20/2022									<0.00102
4/26/2022									
4/27/2022					<0.00102		<0.00102	<0.00102	
5/2/2022	0.00055 (J)	<0.00102		<0.00102		<0.00102			
5/3/2022			<0.00102						

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			<0.00102
3/30/2016			
5/17/2016			<0.00102
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.00102
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.00102
11/14/2016			<0.00102
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.00102
5/22/2017			
5/24/2017			<0.00102
6/19/2017			<0.00102
6/20/2017			
6/21/2017			
1/9/2018			<0.00102
1/10/2018			
4/16/2018			
4/19/2018			<0.00102
10/1/2018			<0.00102
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.00102		
2/25/2019			
2/27/2019		<0.00102	
4/3/2019			<0.00102
5/7/2019			
9/16/2019			
9/17/2019		<0.00102	
9/18/2019	<0.00102		<0.00102
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.00102
2/26/2020	<0.00102	<0.00102	
7/22/2020			<0.00102
7/23/2020	<0.00102	<0.00102	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.00102	<0.00102	<0.00102
9/21/2021			
9/22/2021			
9/28/2021			<0.00102
9/29/2021	<0.00102	<0.00102	
4/20/2022	<0.00102		
4/26/2022		<0.00102	<0.00102
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.00102	<0.00102							
3/29/2016			<0.00102						
5/18/2016	<0.00102	<0.00102	<0.00102						
7/11/2016		<0.00102							
7/13/2016	<0.00102		<0.00102			<0.00102			
7/14/2016							<0.00102		
8/22/2016						<0.00102	<0.00102		
9/13/2016	<0.00102					<0.00102	<0.00102		
9/14/2016		<0.00102	<0.00102						
11/14/2016			<0.00102						
11/15/2016						<0.00102	<0.00102		
11/16/2016	<0.00102	<0.00102							
1/3/2017						<0.00102	<0.00102		
2/27/2017	<0.00102								
2/28/2017			<0.00102						
3/1/2017		<0.00102				<0.00102	<0.00102		
5/22/2017	<0.00102								
5/23/2017		<0.00102				<0.00102	<0.00102		
5/24/2017			<0.00102						
6/19/2017		<0.00102	<0.00102						
6/20/2017						<0.00102	<0.00102		
6/21/2017	<0.00102								
1/9/2018			<0.00102				<0.00102		
1/10/2018	<0.00102	<0.00102				<0.00102			
4/17/2018						<0.00102	<0.00102		
4/19/2018	<0.00102	<0.00102	<0.00102						
10/1/2018			<0.00102						
10/2/2018	<0.00102								
10/3/2018		<0.00102							
10/4/2018						<0.00102	<0.00102		
12/5/2018								<0.00102	<0.00102
12/6/2018									
12/13/2018				<0.00102					
2/26/2019									
2/27/2019					<0.00102				
4/1/2019	<0.00102	<0.00102							
4/2/2019						<0.00102	<0.00102		
4/3/2019			<0.00102						
9/16/2019									
9/17/2019									<0.00102
9/18/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
2/18/2020	<0.00102								
2/19/2020								<0.00102	<0.00102
2/25/2020			<0.00102	<0.00102	<0.00102				
2/26/2020						<0.00102	<0.00102		
7/21/2020								<0.00102	<0.00102
7/22/2020			<0.00102	<0.00102	<0.00102				
7/27/2020	<0.00102								
7/28/2020						<0.00102	<0.00102		
7/29/2020									
4/5/2021	<0.00102								
4/6/2021								<0.00102	<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						<0.00102	<0.00102		
4/12/2021			<0.00102	<0.00102	<0.00102				
9/21/2021								<0.00102	0.00068 (J)
9/22/2021	<0.00102								
9/27/2021						<0.00102	<0.00102		
9/28/2021			<0.00102	<0.00102	<0.00102				
4/19/2022	<0.00102				<0.00102				
4/20/2022			<0.00102	<0.00102				<0.00102	<0.00102
4/27/2022									
5/2/2022									
5/3/2022						<0.00102	<0.00102		

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.00102	
12/6/2018	<0.00102		
12/13/2018			
2/26/2019			<0.00102
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.00102
9/17/2019			
9/18/2019	<0.00102	<0.00102	
2/18/2020			
2/19/2020	<0.00102		
2/25/2020		<0.00102	<0.00102
2/26/2020			
7/21/2020		<0.00102	
7/22/2020	<0.00102		
7/27/2020			
7/28/2020			
7/29/2020			<0.00102
4/5/2021			<0.00102
4/6/2021		<0.00102	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.00102		
4/12/2021			
9/21/2021		<0.00102	
9/22/2021	<0.00102		
9/27/2021			
9/28/2021			<0.00102
4/19/2022			
4/20/2022	<0.00102		
4/27/2022			<0.00102
5/2/2022		<0.00102	
5/3/2022			

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		<0.00102							
3/30/2016									
5/17/2016		<0.00102							
5/23/2016									
7/11/2016		<0.00102							
7/14/2016									
9/13/2016									
9/14/2016		<0.00102							
11/15/2016									
11/16/2016		<0.00102							
2/28/2017									
3/1/2017		<0.00102							
5/23/2017		<0.00102							
5/24/2017									
6/19/2017		<0.00102							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.00102							
4/17/2018									
4/19/2018		<0.00102							
10/1/2018									
10/3/2018		<0.00102							
2/26/2019	<0.00102								
4/2/2019		<0.00102							
9/17/2019	<0.00102	<0.00102							
9/18/2019									
9/26/2019	<0.00102								
10/22/2019			<0.00102						
2/18/2020									
2/19/2020		<0.00102	<0.00102				<0.00102		
2/25/2020	<0.00102					<0.00102			
2/26/2020					<0.00102				
4/29/2020				<0.00102				<0.00102	<0.00102
7/20/2020					<0.00102				<0.00102
7/21/2020						<0.00102	<0.00102	<0.00102	
7/23/2020			<0.00102						
7/27/2020		<0.00102		<0.00102					
7/28/2020									
7/29/2020	<0.00102								
3/30/2021					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/5/2021	<0.00102	<0.00102		<0.00102					
4/6/2021			<0.00102						
4/7/2021									
9/22/2021						<0.00102			<0.00102
9/27/2021		<0.00102			<0.00102				
9/28/2021	<0.00102								
9/29/2021			<0.00102	<0.00102			<0.00102	<0.00102	
4/26/2022	<0.00102				<0.00102	<0.00102			<0.00102
4/27/2022				<0.00102			<0.00102	<0.00102	
5/2/2022			<0.00102						
5/3/2022		<0.00102							

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		<0.00102	<0.00102
5/17/2016		<0.00102	
5/23/2016			<0.00102
7/11/2016		<0.00102	
7/14/2016			<0.00102
9/13/2016			<0.00102
9/14/2016		<0.00102	
11/15/2016			<0.00102
11/16/2016		<0.00102	
2/28/2017		<0.00102	
3/1/2017			<0.00102
5/23/2017			<0.00102
5/24/2017		<0.00102	
6/19/2017			
6/20/2017			<0.00102
6/21/2017		<0.00102	
1/9/2018			<0.00102
1/10/2018		<0.00102	
4/17/2018			<0.00102
4/19/2018		<0.00102	
10/1/2018			<0.00102
10/3/2018		<0.00102	
2/26/2019			
4/2/2019		<0.00102	<0.00102
9/17/2019		<0.00102	
9/18/2019			<0.00102
9/26/2019			
10/22/2019			
2/18/2020		<0.00102	
2/19/2020			
2/25/2020			
2/26/2020			<0.00102
4/29/2020	<0.00102		
7/20/2020	<0.00102		
7/21/2020			
7/23/2020			
7/27/2020		<0.00102	
7/28/2020			<0.00102
7/29/2020			
3/30/2021	<0.00102		
4/5/2021		<0.00102	
4/6/2021			
4/7/2021			<0.00102
9/22/2021			
9/27/2021	<0.00102	<0.00102	<0.00102
9/28/2021			
9/29/2021			
4/26/2022	<0.00102		
4/27/2022			
5/2/2022		<0.00102	
5/3/2022			<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.00102						
3/30/2016	<0.00102	<0.00102							
4/4/2016				<0.00102					
5/19/2016	<0.00102	<0.00102							
5/23/2016			<0.00102	<0.00102					
7/12/2016			<0.00102	<0.00102					
7/13/2016	<0.00102	<0.00102							
9/13/2016	<0.00102	<0.00102	<0.00102	<0.00102					
11/15/2016	<0.00102	<0.00102	<0.00102	<0.00102					
2/28/2017			<0.00102	<0.00102					
3/1/2017	<0.00102	<0.00102							
5/23/2017	<0.00102	<0.00102							
5/24/2017			<0.00102	<0.00102					
6/20/2017	<0.00102	<0.00102	<0.00102	<0.00102					
1/10/2018	<0.00102	<0.00102	<0.00102	<0.00102					
4/17/2018	<0.00102	<0.00102	<0.00102	<0.00102					
10/1/2018			<0.00102	<0.00102					
10/4/2018	<0.00102	<0.00102							
4/1/2019			<0.00102	<0.00102					
4/2/2019	<0.00102	<0.00102							
9/17/2019			<0.00102	<0.00102					
9/18/2019	<0.00102	<0.00102							
2/17/2020				<0.00102					
2/25/2020			<0.00102						
2/26/2020	<0.00102	<0.00102							
7/28/2020	<0.00102	<0.00102							
7/29/2020			<0.00102	<0.00102					
4/5/2021				<0.00102					
4/6/2021			<0.00102						
4/7/2021	<0.00102	<0.00102							
4/12/2021					<0.00102	<0.00102	<0.00102	<0.00102	
4/13/2021									<0.00102
9/21/2021			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/27/2021	<0.00102	<0.00102							
4/19/2022					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
5/2/2022			<0.00102	<0.00102					
5/3/2022	<0.00102	<0.00102							

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					66.6	147			
3/29/2016							146		254
3/30/2016	9.91	32.2	85	<2					
5/17/2016	7.27				63.9		140		251
5/18/2016		30.8	83.8	0.492 (J)					
5/19/2016						224			
7/11/2016					57.6	133			
7/13/2016	4.11	32.4	86.2						
7/14/2016				0.38 (J)			135		246
7/18/2016									
8/22/2016						134			
9/12/2016			91.8	<2					
9/13/2016	2.86	30.9			82.8		129		238
9/14/2016						130			
11/14/2016		32.1	91.2	<2			131		
11/15/2016	2.16				118	132			
11/16/2016									234
1/3/2017						143			
2/27/2017					62 (J)	130			
2/28/2017	3.7 (J)	32	86	<2			130		240
5/22/2017	2.6 (J)	32				120			
5/24/2017			92	<2	56		130		230
6/19/2017	2.8 (J)	33					110		200
6/20/2017						120			
6/21/2017			88	<2	75				
8/14/2017	3.4 (J)	34	100	<2		140	140		250
8/15/2017					67				
4/16/2018	3.4 (J)	33	91						
4/19/2018				<2	53	150	130		250
10/1/2018							80		280
10/2/2018	2.6 (J)								
10/4/2018		37	76						
10/5/2018				<2	160	260			
12/17/2018									
2/25/2019								142	
2/27/2019									
4/3/2019	3.85	44.2	102	0.925 (J)	75.2	339	161		346
5/7/2019						351			
9/16/2019	3.39	49.2	108				147	137	
9/17/2019				<2	131				322
9/18/2019						283			
2/17/2020	3.56	45.2							
2/18/2020			110						
2/19/2020				0.571 (J)	110				
2/25/2020						326	161	146	
2/26/2020									351
7/22/2020	3.65	45.3							
7/23/2020					97.9				
7/27/2020			108	<2					
7/28/2020						239	143	137	
7/29/2020									309
4/5/2021	11.4	50.1	96.8				172	150	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<2	77.5	230			421
9/21/2021	5.56	55.4							
9/22/2021			131	0.521 (J)	116				
9/28/2021						245	188	177	
9/29/2021									425
4/20/2022									444
4/26/2022									
4/27/2022					118		191	173	
5/2/2022	4.75	58.3		<2		224			
5/3/2022			97						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			163
3/30/2016			
5/17/2016			159
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			154
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			143
11/14/2016			151
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			140
5/22/2017			
5/24/2017			150
6/19/2017			140
6/20/2017			
6/21/2017			
8/14/2017			150
8/15/2017			
4/16/2018			
4/19/2018			140
10/1/2018			140
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	220		
2/25/2019			
2/27/2019		265	
4/3/2019			168
5/7/2019			
9/16/2019			
9/17/2019		243	
9/18/2019	260		173
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			210
2/26/2020	302	288	
7/22/2020			180
7/23/2020	276	254	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	297	288	181
9/21/2021			
9/22/2021			
9/28/2021			205
9/29/2021	304	283	
4/20/2022	323		
4/26/2022		287	216
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	16.8	2.09							
3/29/2016			556						
5/18/2016	14.9	1.92	559						
7/11/2016		3.41							
7/13/2016	24.2		560			159			
7/14/2016							172		
8/22/2016						107	170		
9/13/2016	16.8					155	171		
9/14/2016		4.94	553						
11/14/2016			551						
11/15/2016						172	173		
11/16/2016	21.7	10.5							
1/3/2017						163	183		
2/27/2017	23								
2/28/2017			560						
3/1/2017		5.1				140	170		
5/22/2017	26								
5/23/2017		2.3 (J)				140	180		
5/24/2017			530						
6/19/2017		2.1 (J)	510						
6/20/2017						130	160		
6/21/2017	20								
8/14/2017	22		540						
8/15/2017		1.7 (J)				150	170		
4/17/2018						150	160		
4/19/2018	24	<2	520						
10/1/2018			590						
10/2/2018	24								
10/3/2018		1.7 (J)							
10/4/2018						180	150		
12/5/2018								110	76
12/6/2018									
1/2/2019				180					
2/26/2019									
2/27/2019					491				
4/1/2019	24.4	1.87							
4/2/2019						189	212		
4/3/2019			577						
9/16/2019									
9/17/2019									67.1
9/18/2019	23.6	2.39	526	379	481	197	180	102	
2/18/2020	25.6								
2/19/2020								119	69.4
2/25/2020			674	470	599				
2/26/2020						199	196		
7/21/2020								51.1	59.8
7/22/2020			568	432	507				
7/27/2020	23.7								
7/28/2020						177	175		
7/29/2020									
4/5/2021	23.1								
4/6/2021								33.5	46.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						145	124		
4/12/2021			547	421	499				
9/21/2021								80.7	39.6
9/22/2021	25.9								
9/27/2021						162	122		
9/28/2021			583	423	528				
4/19/2022	27.6				498 (D)				
4/20/2022			575	416				42.6	40.1
4/27/2022									
5/2/2022									
5/3/2022						131	74.2		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
8/14/2017			
8/15/2017			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		66	
12/6/2018	150		
1/2/2019			
2/26/2019			131
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			126
9/17/2019			
9/18/2019	142	120	
2/18/2020			
2/19/2020	143		
2/25/2020		26.5	134
2/26/2020			
7/21/2020		69.6	
7/22/2020	131		
7/27/2020			
7/28/2020			
7/29/2020			134
4/5/2021			133
4/6/2021		18.3	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	124		
4/12/2021			
9/21/2021		12.1	
9/22/2021	118		
9/27/2021			
9/28/2021			133
4/19/2022			
4/20/2022	93.7		
4/27/2022			139
5/2/2022		14.9	
5/3/2022			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		7.57							
3/30/2016									
5/17/2016		5.12							
5/23/2016									
7/11/2016		4.63							
7/14/2016									
9/13/2016									
9/14/2016		3.19							
11/15/2016									
11/16/2016		3.71							
2/28/2017									
3/1/2017		3.4 (J)							
5/23/2017		2 (J)							
5/24/2017									
6/19/2017		2.5 (J)							
6/20/2017									
6/21/2017									
8/15/2017		2.4 (J)							
4/17/2018									
4/19/2018		1.9 (J)							
10/1/2018									
10/3/2018		2.7 (J)							
2/26/2019	164								
4/2/2019		3.24							
9/17/2019	161	4.51							
9/18/2019									
9/26/2019	179								
10/22/2019			23.4						
2/18/2020									
2/19/2020		3.73	43.2				492		
2/25/2020	177					55.5			
2/26/2020					119				
4/29/2020				93.9				39	214
7/20/2020					169				259
7/21/2020						24.4	496	43.4	
7/23/2020			35.3						
7/27/2020		4.11		49.6					
7/28/2020									
7/29/2020	163								
3/30/2021					144	17.4	452	39.4	199
4/5/2021	168	3.2		21.7					
4/6/2021			37.8						
4/7/2021									
9/22/2021						36			192
9/27/2021		2.76			150				
9/28/2021	172								
9/29/2021			28.7	13.7			496	38.5	
4/26/2022	180				130	36.8			165
4/27/2022				24.1			484	37.3	
5/2/2022			25.1						
5/3/2022		2.16							

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		24.9	146
5/17/2016		25.1	
5/23/2016			160
7/11/2016		33.2	
7/14/2016			173
9/13/2016			173
9/14/2016		35.5	
11/15/2016			177
11/16/2016		38.5	
2/28/2017		32	
3/1/2017			160
5/23/2017			160
5/24/2017		30	
6/19/2017			
6/20/2017			150
6/21/2017		25	
8/15/2017		24	170
4/17/2018			130
4/19/2018		25	
10/1/2018			140
10/3/2018		37	
2/26/2019			
4/2/2019		22.4	122
9/17/2019		39.8	
9/18/2019			167
9/26/2019			
10/22/2019			
2/18/2020		21.4	
2/19/2020			
2/25/2020			
2/26/2020			39.8
4/29/2020	99.9		
7/20/2020	94.9		
7/21/2020			
7/23/2020			
7/27/2020		21.7	
7/28/2020			152
7/29/2020			
3/30/2021	97.3		
4/5/2021		15.6	
4/6/2021			
4/7/2021			38.7
9/22/2021			
9/27/2021	104	14.3	33.5
9/28/2021			
9/29/2021			
4/26/2022	91.3		
4/27/2022			
5/2/2022		11.1	
5/3/2022			34

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			29.9						
3/30/2016	204	215							
4/4/2016				13.5					
5/19/2016	206	204							
5/23/2016			26.5	1.78					
7/12/2016			24.3	0.915 (J)					
7/13/2016	176	155							
9/13/2016	151	89.8	17.8	<2					
11/15/2016	161	176	10.1	0.96 (J)					
2/28/2017			5.8	5.5					
3/1/2017	160	200							
5/23/2017	160	200							
5/24/2017			11	18					
6/20/2017	160	180	7.9	13					
8/15/2017	160	210	5						
8/16/2017				14					
4/17/2018	160	170	2.9 (J)	14					
10/1/2018			<2	11					
10/4/2018	150	200							
4/1/2019			1.8	14.3					
4/2/2019	198	186							
9/17/2019			4.62	13.9					
9/18/2019	177	199							
2/17/2020				14.7					
2/25/2020			3.89						
2/26/2020	178	207							
7/28/2020	189	160							
7/29/2020			3.25	14.7					
4/5/2021				15.1					
4/6/2021			3.29						
4/7/2021	151	164							
4/12/2021					14.6	7.23	2.99	12.6	
4/13/2021									4.92
9/21/2021			1.95	18.4	14.5	1.31	1.44	5.49	3.27
9/27/2021	156	143							
4/19/2022					11.4	0.934 (J)	1.37 (J)	2.72	2.25
5/2/2022			3.02	17.9					
5/3/2022	115	107							

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					308	426			
3/29/2016							277		451
3/30/2016	195	184	353	202					
5/17/2016	189				314		261		432
5/18/2016		186	343	207					
5/19/2016						496			
7/11/2016					319	359			
7/13/2016	179	192	352						
7/14/2016				203			255		434
7/18/2016									
8/22/2016						349			
9/12/2016			346	205					
9/13/2016	168	187			354		264		432
9/14/2016						340			
11/14/2016		185	322	197			249		
11/15/2016	180				452	324			
11/16/2016									412
1/3/2017						348			
2/27/2017					339	347			
2/28/2017	180	198	353	221			251		434
5/22/2017	178	185				348			
5/24/2017			234	204	316		257		425
6/19/2017	165	189					258		424
6/20/2017						343			
6/21/2017			372	218	376				
8/14/2017	185	135	372	217		332	263		428
8/15/2017					340				
4/16/2018	181	174	365						
4/19/2018				201	304	369	247		455
10/1/2018							252		492
10/2/2018	161								
10/4/2018		208	372						
10/5/2018				208	544	762			
12/17/2018									
2/25/2019								264	
2/27/2019									
4/3/2019	177	200	372	201	336	810	273		536
5/7/2019						810			
9/16/2019	168	207	377				293	275	
9/17/2019				204	439				592
9/18/2019						704			
10/8/2019	172	207 (D)							
2/17/2020	170	209							
2/18/2020			378						
2/19/2020				206	363				
2/25/2020						674	284	288	
2/26/2020									561
7/22/2020	175	216							
7/23/2020					399				
7/27/2020			378	202					
7/28/2020						606	284	274	
7/29/2020									566

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/5/2021	184	217	372				333	289	
4/6/2021				193	342	590			772
9/21/2021	174	217							
9/22/2021			375	210	394				
9/28/2021						566	354	297	
9/29/2021									842
4/20/2022									967
4/26/2022									
4/27/2022					417		369	318	
5/2/2022	173	234		201		574			
5/3/2022			371						

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			560
3/30/2016			
5/17/2016			540
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			546
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			542
11/14/2016			514
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			536
5/22/2017			
5/24/2017			536
6/19/2017			598
6/20/2017			
6/21/2017			
8/14/2017			550
8/15/2017			
4/16/2018			
4/19/2018			540
10/1/2018			514
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	448 (D)		
2/25/2019			
2/27/2019		459	
4/3/2019			560
5/7/2019			
9/16/2019			
9/17/2019		458	
9/18/2019	499		592
10/8/2019			
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			578
2/26/2020	495	467	
7/22/2020			594
7/23/2020	513	457	
7/27/2020			
7/28/2020			
7/29/2020			

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/5/2021			
4/6/2021	572	525	596
9/21/2021			
9/22/2021			
9/28/2021			608
9/29/2021	568	509	
4/20/2022	636		
4/26/2022		578	596
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	213	138							
3/29/2016			862						
5/18/2016	206	156	882						
7/11/2016		167							
7/13/2016	225		874			468			
7/14/2016							435		
8/22/2016						393	426		
9/13/2016	212					428	430		
9/14/2016		166	908						
11/14/2016			804						
11/15/2016						452	404		
11/16/2016	224	192							
1/3/2017						418	428		
2/27/2017	223								
2/28/2017			930						
3/1/2017		186				346	484		
5/22/2017	219								
5/23/2017		158				386	460		
5/24/2017			886						
6/19/2017		156	924						
6/20/2017						363	485		
6/21/2017	164								
8/14/2017	232		872						
8/15/2017		168				364	488		
4/17/2018						410	477		
4/19/2018	218	154	880						
10/1/2018			866						
10/2/2018	212								
10/3/2018		156							
10/4/2018						506	467		
12/5/2018								372 (D)	372 (D)
12/6/2018									
1/2/2019				530					
2/26/2019									
2/27/2019					774				
4/1/2019	225	160							
4/2/2019						401	522		
4/3/2019			910						
9/16/2019									
9/17/2019									342
9/18/2019	222	154	908	680	784	504	460	378	
2/18/2020	215								
2/19/2020								436	357
2/25/2020			930	708	802				
2/26/2020						490	497		
7/21/2020								331	318
7/22/2020			934	744	814				
7/27/2020	223								
7/28/2020						476	500		
7/29/2020									
4/5/2021	220								
4/6/2021								309	280

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						432	409		
4/12/2021			926	768	844				
9/21/2021								377	246
9/22/2021	218								
9/27/2021						443	402		
9/28/2021			922	740	850				
4/19/2022	225				855 (D)				
4/20/2022			946	748				320	276
4/27/2022									
5/2/2022									
5/3/2022						388	308		

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
8/14/2017			
8/15/2017			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		317 (D)	
12/6/2018	444		
1/2/2019			
2/26/2019			277
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			276
9/17/2019			
9/18/2019	433	412	
2/18/2020			
2/19/2020	423		
2/25/2020		173	276
2/26/2020			
7/21/2020		288	
7/22/2020	406		
7/27/2020			
7/28/2020			
7/29/2020			278
4/5/2021			287
4/6/2021		143	

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	406		
4/12/2021			
9/21/2021		114	
9/22/2021	379		
9/27/2021			
9/28/2021			269
4/19/2022			
4/20/2022	354		
4/27/2022			282
5/2/2022		146	
5/3/2022			

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		147							
3/30/2016									
5/17/2016		140							
5/23/2016									
7/11/2016		146							
7/14/2016									
9/13/2016									
9/14/2016		141							
11/15/2016									
11/16/2016		157							
2/28/2017									
3/1/2017		148							
5/23/2017		141							
5/24/2017									
6/19/2017		126							
6/20/2017									
6/21/2017									
8/15/2017		146							
4/17/2018									
4/19/2018		143							
10/1/2018									
10/3/2018		148							
2/26/2019	326								
4/2/2019		140							
9/17/2019	331	145							
9/18/2019									
9/26/2019	327								
10/22/2019			396						
2/18/2020									
2/19/2020		149	463				802		
2/25/2020	330					353			
2/26/2020					315				
4/29/2020				373				227	742
7/20/2020					521				896
7/21/2020						333	816	249	
7/23/2020			440						
7/27/2020		154		361					
7/28/2020									
7/29/2020	328								
3/30/2021					483	329	810	252	767
4/5/2021	345	136		319					
4/6/2021			426						
4/7/2021									
9/22/2021						354			673
9/27/2021		132			447				
9/28/2021	340								
9/29/2021			415	309			844	275	
4/26/2022	359				433	303			596
4/27/2022				272			788	255	
5/2/2022			412						
5/3/2022		141							

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		339	398
5/17/2016		269	
5/23/2016			411
7/11/2016		305	
7/14/2016			424
9/13/2016			426
9/14/2016		326	
11/15/2016			412
11/16/2016		338	
2/28/2017		303	
3/1/2017			452
5/23/2017			448
5/24/2017		312	
6/19/2017			
6/20/2017			437
6/21/2017		241	
8/15/2017		281	440
4/17/2018			454
4/19/2018		282	
10/1/2018			449
10/3/2018		354	
2/26/2019			
4/2/2019		270	390
9/17/2019		332	
9/18/2019			434
9/26/2019			
10/22/2019			
2/18/2020		274	
2/19/2020			
2/25/2020			
2/26/2020			228
4/29/2020	273		
7/20/2020	252		
7/21/2020			
7/23/2020			
7/27/2020		284	
7/28/2020			406
7/29/2020			
3/30/2021	262		
4/5/2021		248	
4/6/2021			
4/7/2021			256
9/22/2021			
9/27/2021	249	237	240
9/28/2021			
9/29/2021			
4/26/2022	250		
4/27/2022			
5/2/2022		248	
5/3/2022			239

Time Series

Constituent: TDS (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			290						
3/30/2016	430	472							
4/4/2016				182					
5/19/2016	422	458							
5/23/2016			312	184					
7/12/2016			292	176					
7/13/2016	391	412							
9/13/2016	378	312	276	170					
11/15/2016	354	426	262	180					
2/28/2017			290	203					
3/1/2017	389	487							
5/23/2017	375	487							
5/24/2017			296	199					
6/20/2017	416	421	273	178					
8/15/2017	394	490	279						
8/16/2017				205					
4/17/2018	437	464	250	193					
10/1/2018			246	198					
10/4/2018	418	504							
4/1/2019			268	205					
4/2/2019	447	428							
9/17/2019			257	207					
9/18/2019	445	489							
2/17/2020				211					
2/25/2020			252						
2/26/2020	455	490							
7/28/2020	485	434							
7/29/2020			253	215					
4/5/2021				211					
4/6/2021			256						
4/7/2021	436	436							
4/12/2021					146	118	126	129	
4/13/2021									77.3
9/21/2021			256	205	139	111	148	115	83.3
9/27/2021	415	379							
4/19/2022					144	107	138	122	67.3
5/2/2022			237	209					
5/3/2022	376	329							

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
3/28/2016					<0.0002	<0.0002			
3/29/2016							<0.0002		<0.0002
3/30/2016	<0.0002	<0.0002	<0.0002	<0.0002					
5/17/2016	<0.0002				<0.0002		<0.0002		<0.0002
5/18/2016		<0.0002	<0.0002	<0.0002					
5/19/2016						<0.0002			
7/11/2016					<0.0002	<0.0002			
7/13/2016	<0.0002	<0.0002	<0.0002						
7/14/2016				<0.0002			<0.0002		<0.0002
7/18/2016									
8/22/2016						<0.0002			
9/12/2016			<0.0002	<0.0002					
9/13/2016	<0.0002	<0.0002			<0.0002		<0.0002		<0.0002
9/14/2016						<0.0002			
11/14/2016		<0.0002	<0.0002	<0.0002			<0.0002		
11/15/2016	<0.0002				<0.0002	<0.0002			
11/16/2016									<0.0002
1/3/2017						<0.0002			
2/27/2017					<0.0002	<0.0002			
2/28/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002		<0.0002
5/22/2017	<0.0002	<0.0002				<0.0002			
5/24/2017			<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
6/19/2017	<0.0002	<0.0002					<0.0002		<0.0002
6/20/2017						<0.0002			
6/21/2017			<0.0002	<0.0002	<0.0002				
1/9/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/10/2018	<0.0002								
4/16/2018	<0.0002	<0.0002	<0.0002						
4/19/2018				<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/1/2018							<0.0002		<0.0002
10/2/2018	<0.0002								
10/4/2018		<0.0002	<0.0002						
10/5/2018				<0.0002	<0.0002	<0.0002			
12/17/2018									
2/25/2019								0.000537 (J)	
2/27/2019									
4/3/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
5/7/2019						<0.0002			
9/16/2019	<0.0002	<0.0002	<0.0002				<0.0002	0.000604 (J)	
9/17/2019				<0.0002	<0.0002				<0.0002
9/18/2019						<0.0002			
2/17/2020	<0.0002	<0.0002							
2/18/2020			<0.0002						
2/19/2020				<0.0002	<0.0002				
2/25/2020						<0.0002	<0.0002	0.000552 (J)	
2/26/2020									<0.0002
7/22/2020	<0.0002	<0.0002							
7/23/2020					<0.0002				
7/27/2020			<0.0002	<0.0002					
7/28/2020						<0.0002	<0.0002	0.000514 (J)	
7/29/2020									<0.0002
4/5/2021	<0.0002	<0.0002	<0.0002				<0.0002	0.000465	

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-16V	GN-AP-MW-17
4/6/2021				<0.0002	<0.0002	<0.0002			<0.0002
9/21/2021	<0.0002	<0.0002							
9/22/2021			<0.0002	<0.0002	<0.0002				
9/28/2021						<0.0002	<0.0002	0.00047	
9/29/2021									<0.0002
4/20/2022									8E-05 (J)
4/26/2022									
4/27/2022					<0.0002		<0.0002	0.0006	
5/2/2022	<0.0002	<0.0002		<0.0002		<0.0002			
5/3/2022			<0.0002						

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
3/28/2016			
3/29/2016			0.000428 (J)
3/30/2016			
5/17/2016			0.000343 (J)
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			0.000359 (J)
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			0.000345 (J)
11/14/2016			0.000367 (J)
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.000359 (J)
5/22/2017			
5/24/2017			0.000376 (J)
6/19/2017			0.000379 (J)
6/20/2017			
6/21/2017			
1/9/2018			0.000312 (J)
1/10/2018			
4/16/2018			
4/19/2018			0.000418 (J)
10/1/2018			0.000371 (J)
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.0002		
2/25/2019			
2/27/2019		<0.0002	
4/3/2019			0.00034 (J)
5/7/2019			
9/16/2019			
9/17/2019		<0.0002	
9/18/2019	<0.0002		0.000479 (J)
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			0.000426 (J)
2/26/2020	0.000225 (J)	<0.0002	
7/22/2020			0.000456 (J)
7/23/2020	0.000254 (J)	<0.0002	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	0.000181 (J)	<0.0002	0.000389
9/21/2021			
9/22/2021			
9/28/2021			0.00036
9/29/2021	0.00021	<0.0002	
4/20/2022	0.00027		
4/26/2022		<0.0002	0.00044
4/27/2022			
5/2/2022			
5/3/2022			

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
3/28/2016	<0.0002	<0.0002							
3/29/2016			<0.0002						
5/18/2016	<0.0002	<0.0002	<0.0002						
7/11/2016		<0.0002							
7/13/2016	<0.0002		<0.0002			<0.0002			
7/14/2016							<0.0002		
8/22/2016						<0.0002	<0.0002		
9/13/2016	<0.0002					<0.0002	<0.0002		
9/14/2016		<0.0002	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.0002	<0.0002		
11/16/2016	<0.0002	<0.0002							
1/3/2017						<0.0002	<0.0002		
2/27/2017	<0.0002								
2/28/2017			<0.0002						
3/1/2017		0.000265 (J)				<0.0002	<0.0002		
5/22/2017	<0.0002								
5/23/2017		0.000239 (J)				<0.0002	<0.0002		
5/24/2017			<0.0002						
6/19/2017		0.000202 (J)	<0.0002						
6/20/2017						<0.0002	<0.0002		
6/21/2017	<0.0002								
1/9/2018			<0.0002				<0.0002		
1/10/2018	<0.0002	<0.0002				<0.0002			
4/17/2018						<0.0002	<0.0002		
4/19/2018	<0.0002	<0.0002	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.0002								
10/3/2018		<0.0002							
10/4/2018						<0.0002	<0.0002		
12/5/2018								<0.0002	<0.0002
12/6/2018									
12/13/2018				<0.0002					
2/26/2019									
2/27/2019					<0.0002				
4/1/2019	<0.0002	<0.0002							
4/2/2019						<0.0002	<0.0002		
4/3/2019			<0.0002						
9/16/2019									
9/17/2019									<0.0002
9/18/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/18/2020	<0.0002								
2/19/2020								<0.0002	<0.0002
2/25/2020			<0.0002	<0.0002	<0.0002				
2/26/2020						<0.0002	<0.0002		
7/21/2020								<0.0002	<0.0002
7/22/2020			<0.0002	<0.0002	<0.0002				
7/27/2020	<0.0002								
7/28/2020						<0.0002	<0.0002		
7/29/2020									
4/5/2021	<0.0002								
4/6/2021								<0.0002	<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-20SV	GN-AP-MW-20V	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-23D	GN-AP-MW-23S
4/7/2021						<0.0002	<0.0002		
4/12/2021			<0.0002	<0.0002	<0.0002				
9/21/2021								<0.0002	<0.0002
9/22/2021	<0.0002								
9/27/2021						<0.0002	<0.0002		
9/28/2021			<0.0002	<0.0002	<0.0002				
4/19/2022	<0.0002				<0.0002				
4/20/2022			<0.0002	<0.0002				<0.0002	<0.0002
4/27/2022									
5/2/2022									
5/3/2022						<0.0002	<0.0002		

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
3/28/2016			
3/29/2016			
5/18/2016			
7/11/2016			
7/13/2016			
7/14/2016			
8/22/2016			
9/13/2016			
9/14/2016			
11/14/2016			
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			
3/1/2017			
5/22/2017			
5/23/2017			
5/24/2017			
6/19/2017			
6/20/2017			
6/21/2017			
1/9/2018			
1/10/2018			
4/17/2018			
4/19/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/4/2018			
12/5/2018		<0.0002	
12/6/2018	<0.0002		
12/13/2018			
2/26/2019			<0.0002
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.0002
9/17/2019			
9/18/2019	<0.0002	<0.0002	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		<0.0002	<0.0002
2/26/2020			
7/21/2020		<0.0002	
7/22/2020	<0.0002		
7/27/2020			
7/28/2020			
7/29/2020			<0.0002
4/5/2021			0.000149 (J)
4/6/2021		<0.0002	

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.0002		
4/12/2021			
9/21/2021		<0.0002	
9/22/2021	<0.0002		
9/27/2021			
9/28/2021			0.00012 (J)
4/19/2022			
4/20/2022	<0.0002		
4/27/2022			0.00021
5/2/2022		<0.0002	
5/3/2022			

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-29H	GN-AP-MW-3 (bg)	GN-AP-MW-30H	GN-AP-MW-31VR	GN-AP-MW-32V	GN-AP-MW-33V	GN-AP-MW-34V	GN-AP-MW-35V	GN-AP-MW-36V
3/28/2016		0.000648 (J)							
3/30/2016									
5/17/2016		<0.0002							
5/23/2016									
7/11/2016		<0.0002							
7/14/2016									
9/13/2016									
9/14/2016		<0.0002							
11/15/2016									
11/16/2016		<0.0002							
2/28/2017									
3/1/2017		<0.0002							
5/23/2017		<0.0002							
5/24/2017									
6/19/2017		<0.0002							
6/20/2017									
6/21/2017									
1/9/2018									
1/10/2018		<0.0002							
4/17/2018									
4/19/2018		<0.0002							
10/1/2018									
10/3/2018		<0.0002							
2/26/2019	<0.0002								
4/2/2019		<0.0002							
9/17/2019	<0.0002	<0.0002							
9/18/2019									
9/26/2019	<0.0002								
10/22/2019			<0.0002						
2/18/2020									
2/19/2020		<0.0002	<0.0002				<0.0002		
2/25/2020	<0.0002					<0.0002			
2/26/2020					<0.0002				
4/29/2020				<0.0002				<0.0002	<0.0002
7/20/2020					<0.0002				<0.0002
7/21/2020						<0.0002	<0.0002	<0.0002	
7/23/2020			<0.0002						
7/27/2020		<0.0002		<0.0002					
7/28/2020									
7/29/2020	<0.0002								
3/30/2021					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/5/2021	<0.0002	0.000203 (J)		<0.0002					
4/6/2021			<0.0002						
4/7/2021									
9/22/2021						<0.0002			<0.0002
9/27/2021		8E-05 (J)			<0.0002				
9/28/2021	<0.0002								
9/29/2021			<0.0002	<0.0002			<0.0002	<0.0002	
4/26/2022	<0.0002				<0.0002	<0.0002			<0.0002
4/27/2022				<0.0002			<0.0002	<0.0002	
5/2/2022			<0.0002						
5/3/2022		0.00036							

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-4	GN-AP-MW-5
3/28/2016			
3/30/2016		<0.0002	<0.0002
5/17/2016		<0.0002	
5/23/2016			<0.0002
7/11/2016		<0.0002	
7/14/2016			<0.0002
9/13/2016			<0.0002
9/14/2016		<0.0002	
11/15/2016			<0.0002
11/16/2016		<0.0002	
2/28/2017		<0.0002	
3/1/2017			<0.0002
5/23/2017			<0.0002
5/24/2017		<0.0002	
6/19/2017			
6/20/2017			<0.0002
6/21/2017		<0.0002	
1/9/2018			<0.0002
1/10/2018		<0.0002	
4/17/2018			<0.0002
4/19/2018		<0.0002	
10/1/2018			<0.0002
10/3/2018		<0.0002	
2/26/2019			
4/2/2019		<0.0002	<0.0002
9/17/2019		<0.0002	
9/18/2019			<0.0002
9/26/2019			
10/22/2019			
2/18/2020		<0.0002	
2/19/2020			
2/25/2020			
2/26/2020			<0.0002
4/29/2020	<0.0002		
7/20/2020	<0.0002		
7/21/2020			
7/23/2020			
7/27/2020		<0.0002	
7/28/2020			<0.0002
7/29/2020			
3/30/2021	<0.0002		
4/5/2021		<0.0002	
4/6/2021			
4/7/2021			<0.0002
9/22/2021			
9/27/2021	<0.0002	<0.0002	<0.0002
9/28/2021			
9/29/2021			
4/26/2022	<0.0002		
4/27/2022			
5/2/2022		<0.0002	
5/3/2022			<0.0002

Time Series

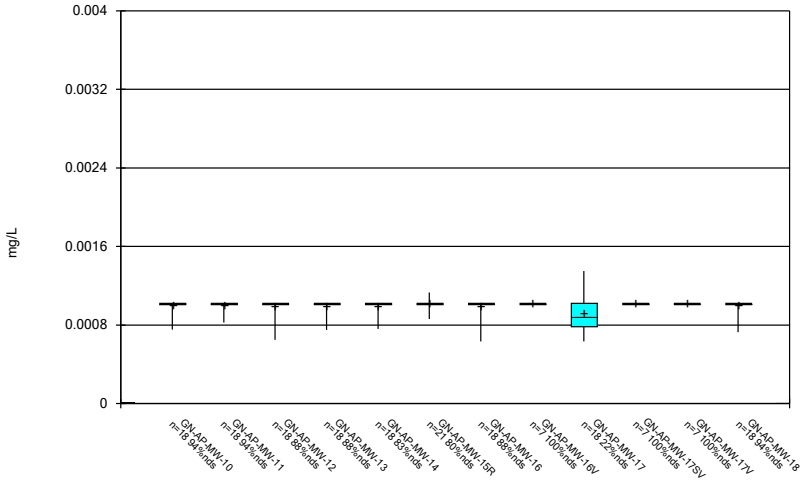
Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:36 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/29/2016			<0.0002						
3/30/2016	<0.0002	<0.0002							
4/4/2016				<0.0002					
5/19/2016	<0.0002	<0.0002							
5/23/2016			<0.0002	<0.0002					
7/12/2016			<0.0002	<0.0002					
7/13/2016	<0.0002	<0.0002							
9/13/2016	<0.0002	<0.0002	<0.0002	<0.0002					
11/15/2016	<0.0002	<0.0002	<0.0002	<0.0002					
2/28/2017			<0.0002	<0.0002					
3/1/2017	<0.0002	<0.0002							
5/23/2017	<0.0002	<0.0002							
5/24/2017			<0.0002	<0.0002					
6/20/2017	<0.0002	<0.0002	<0.0002	<0.0002					
1/10/2018	<0.0002	<0.0002	<0.0002	<0.0002					
4/17/2018	<0.0002	<0.0002	<0.0002	<0.0002					
10/1/2018			<0.0002	<0.0002					
10/4/2018	<0.0002	<0.0002							
4/1/2019			<0.0002	<0.0002					
4/2/2019	<0.0002	<0.0002							
9/17/2019			<0.0002	<0.0002					
9/18/2019	<0.0002	<0.0002							
2/17/2020				<0.0002					
2/25/2020			<0.0002						
2/26/2020	<0.0002	<0.0002							
7/28/2020	<0.0002	<0.0002							
7/29/2020			<0.0002	<0.0002					
4/5/2021				<0.0002					
4/6/2021			<0.0002						
4/7/2021	<0.0002	<0.0002							
4/12/2021					<0.0002	<0.0002	<0.0002	<0.0002	
4/13/2021									0.00015 (J)
9/21/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/27/2021	<0.0002	<0.0002							
4/19/2022					<0.0002	<0.0002	<0.0002	<0.0002	9E-05 (J)
5/2/2022			<0.0002	<0.0002					
5/3/2022	<0.0002	<0.0002							

CLD ¦ w9 . 0

Box & Whiskers Plot

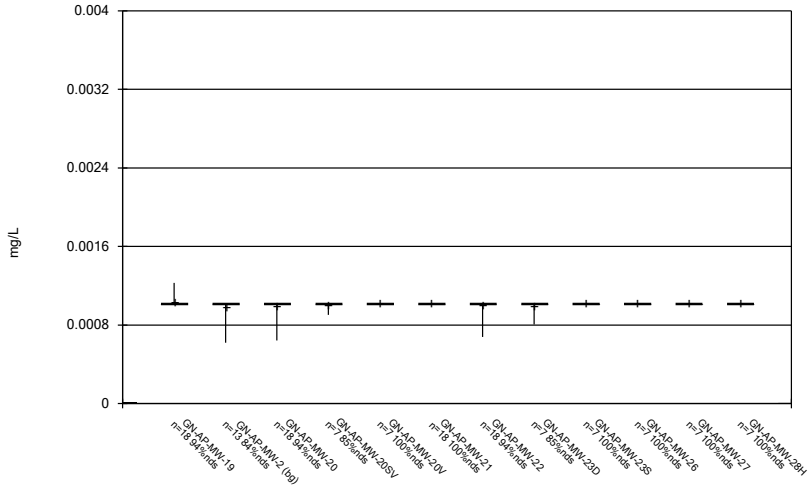


Constituent: Antimony Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

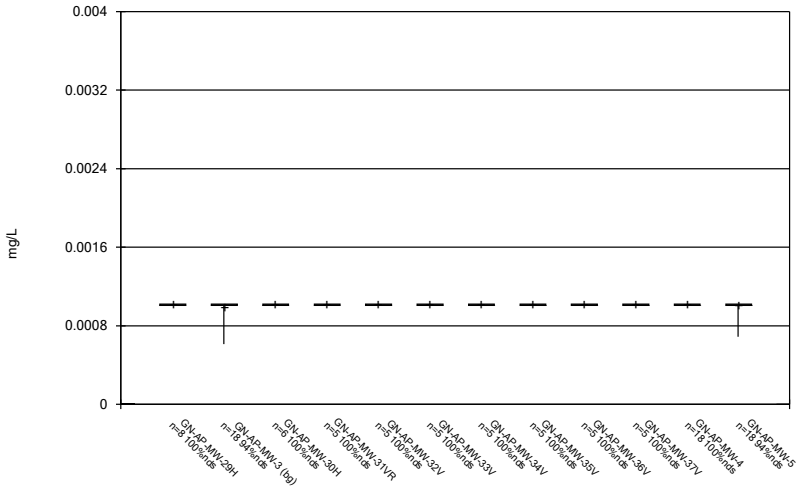


Constituent: Antimony Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

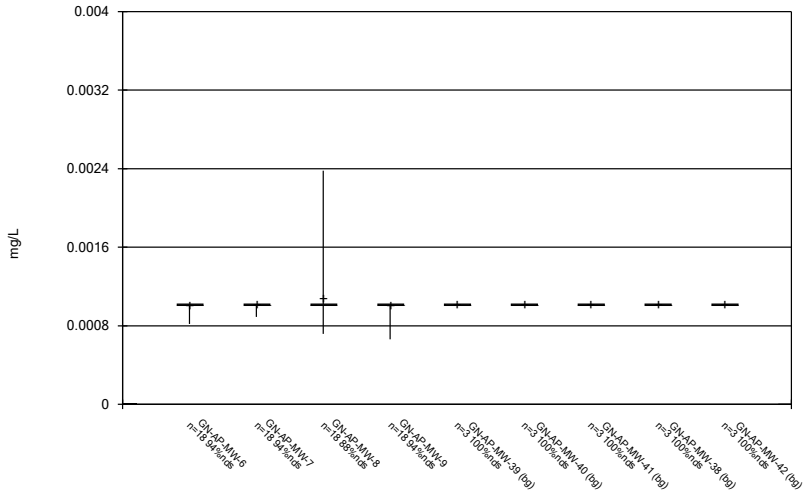


Constituent: Antimony Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

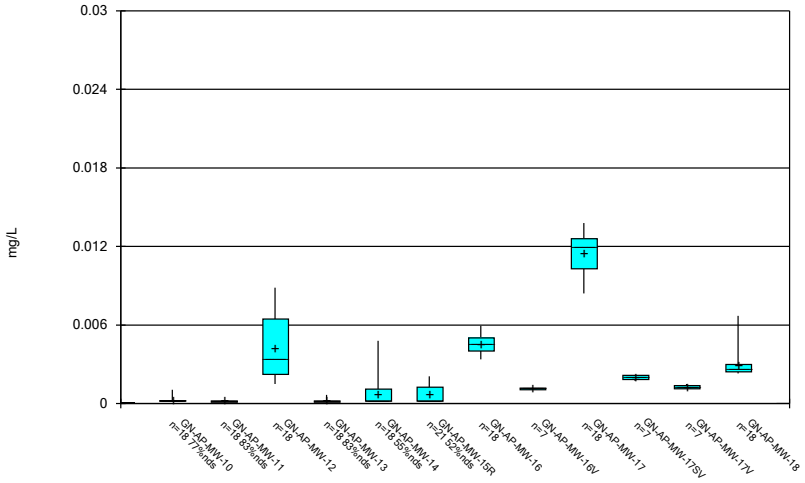
Box & Whiskers Plot



Constituent: Antimony Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

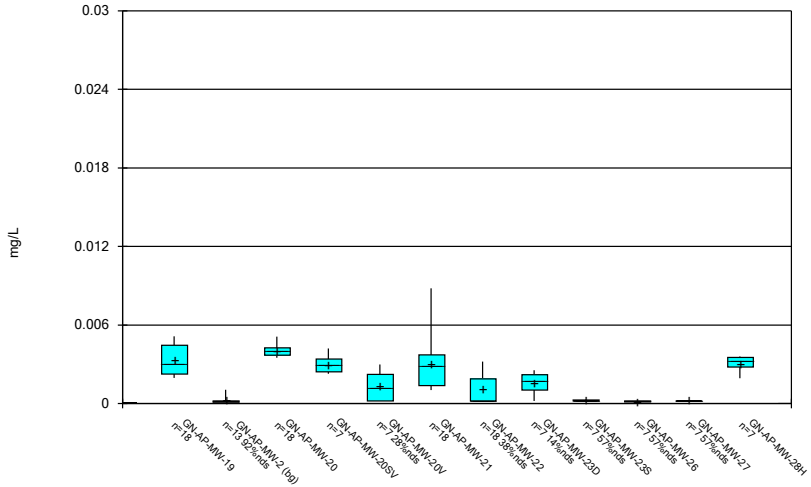


Constituent: Arsenic Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

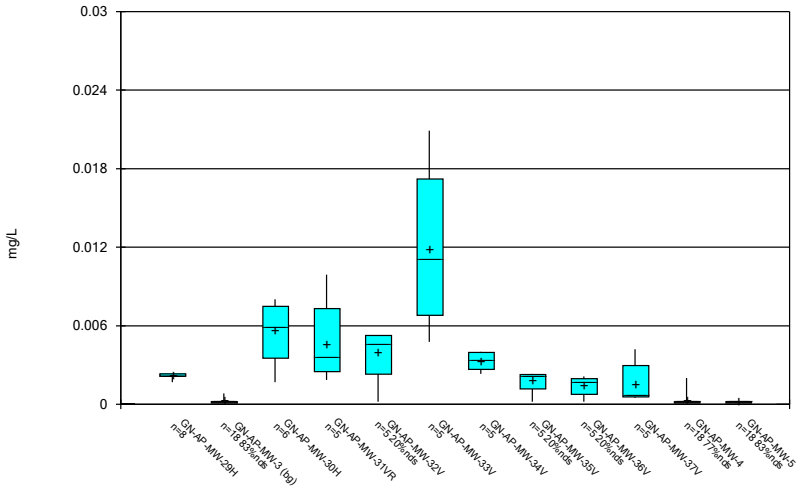


Constituent: Arsenic Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

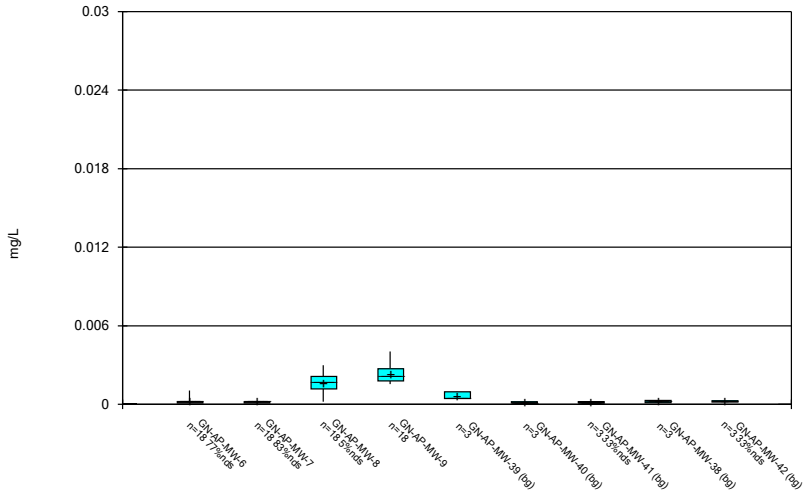


Constituent: Arsenic Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

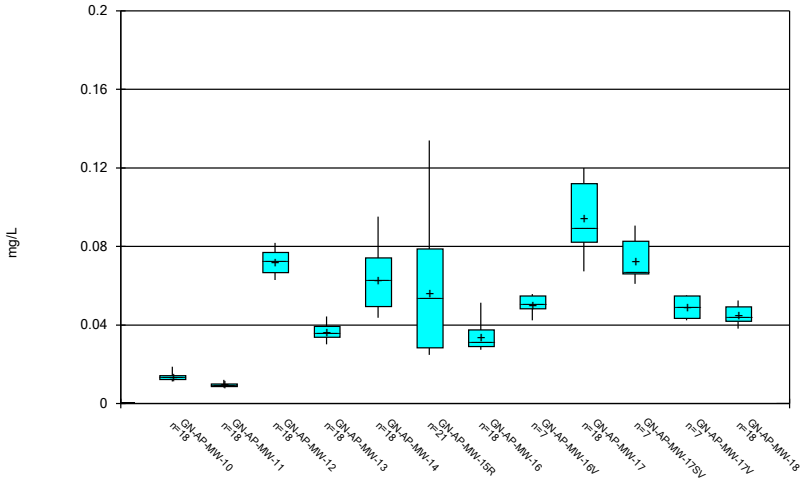
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

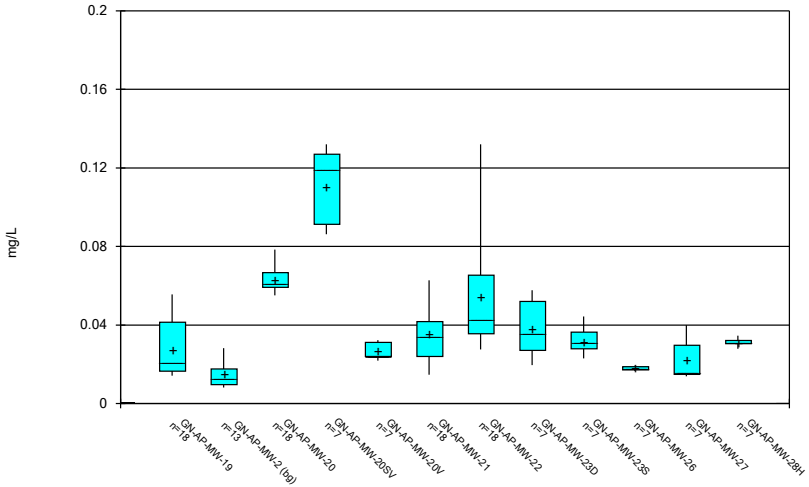


Constituent: Barium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

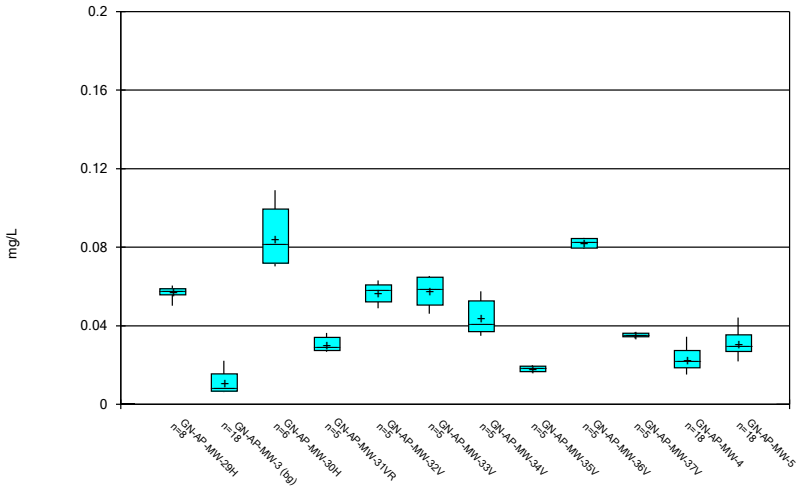


Constituent: Barium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

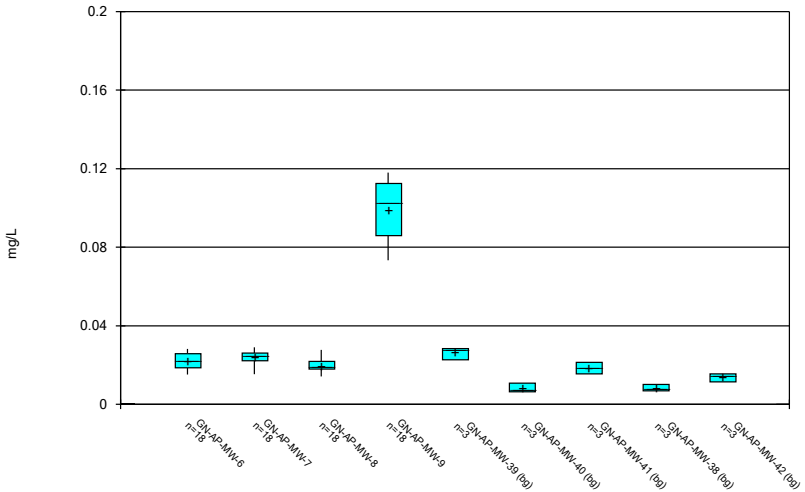


Constituent: Barium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

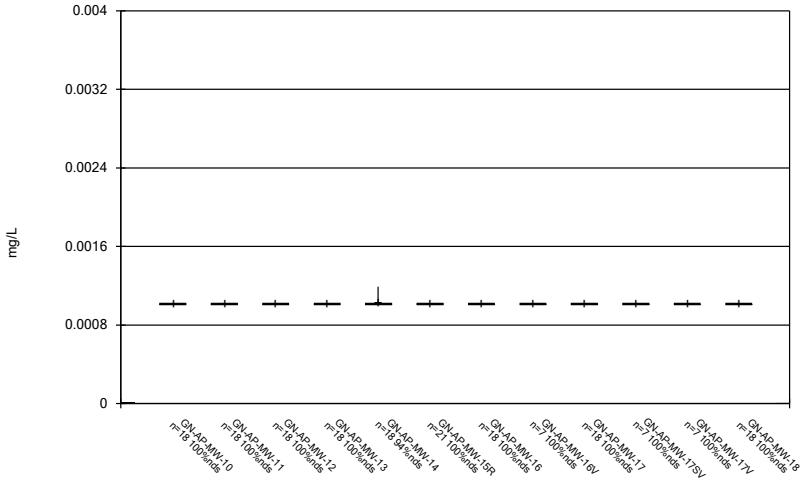
Box & Whiskers Plot



Constituent: Barium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

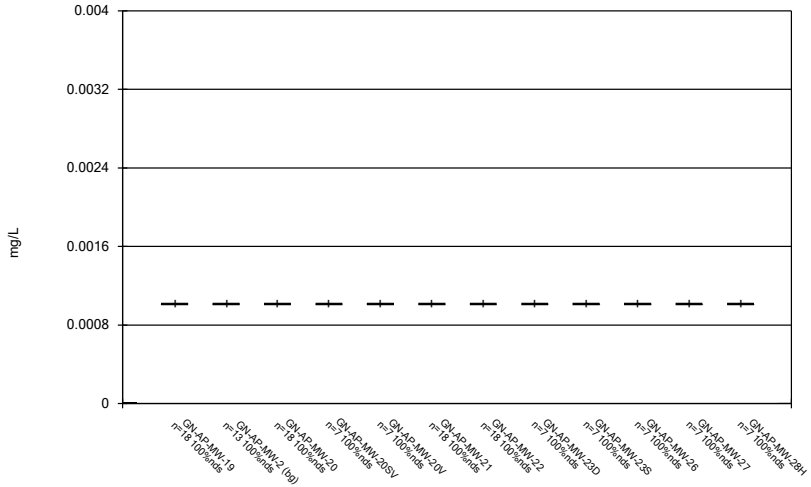


Constituent: Beryllium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

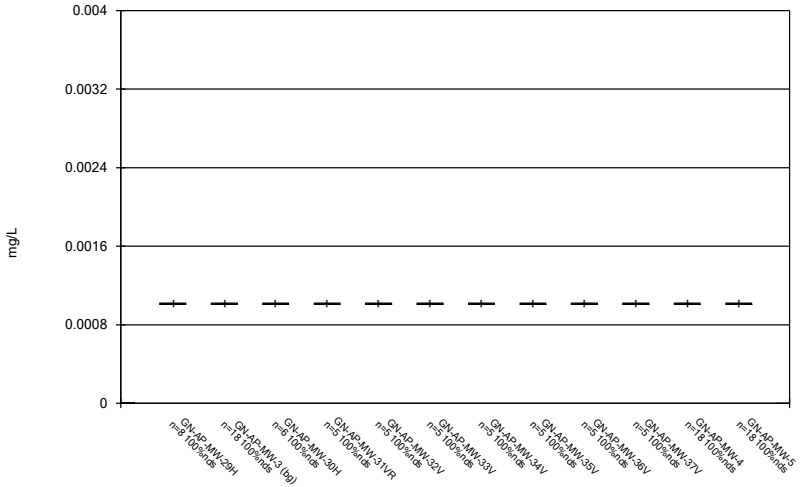


Constituent: Beryllium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

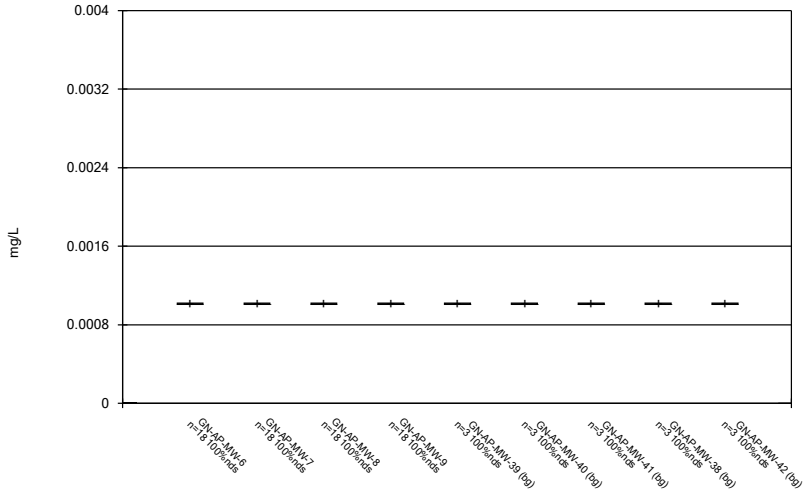


Constituent: Beryllium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

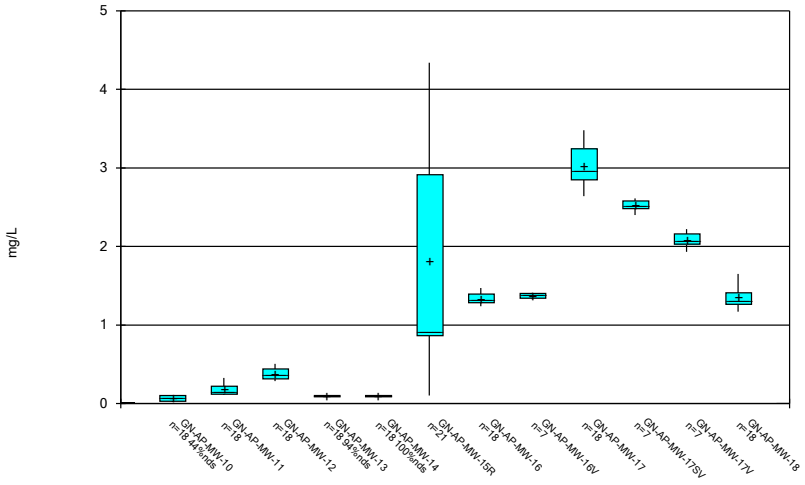
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

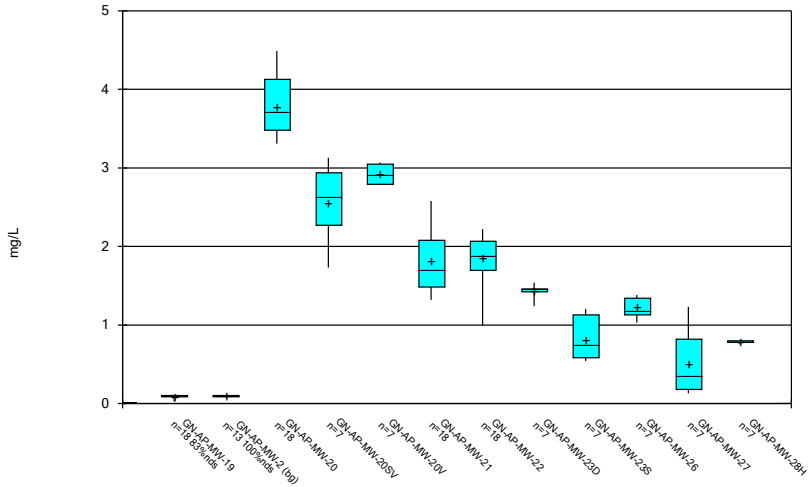


Constituent: Boron Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

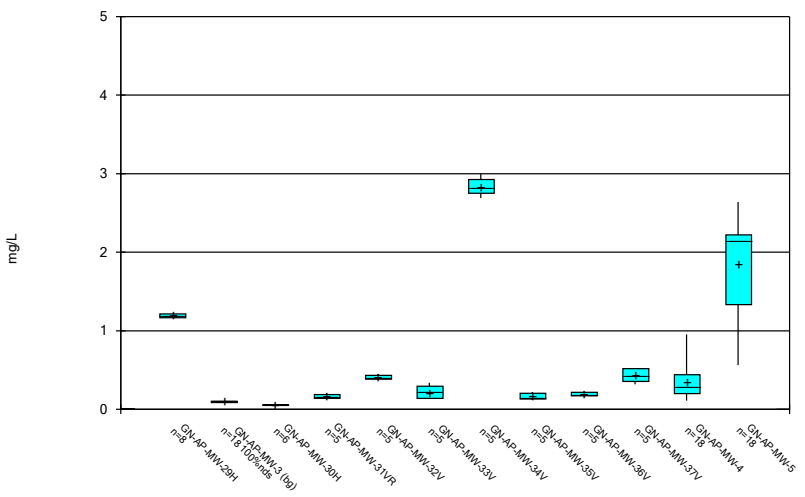


Constituent: Boron Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

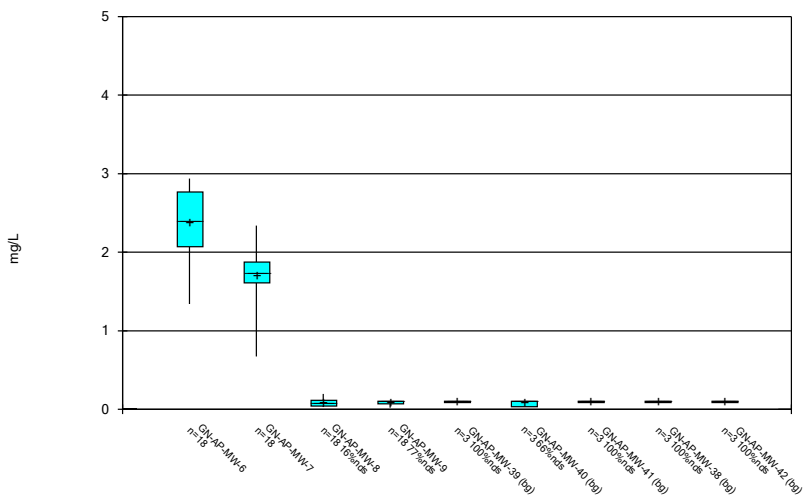


Constituent: Boron Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

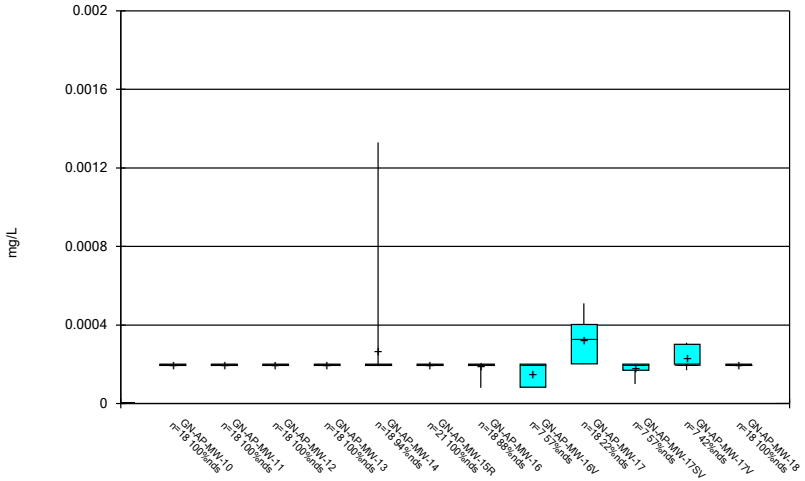
Box & Whiskers Plot



Constituent: Boron Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

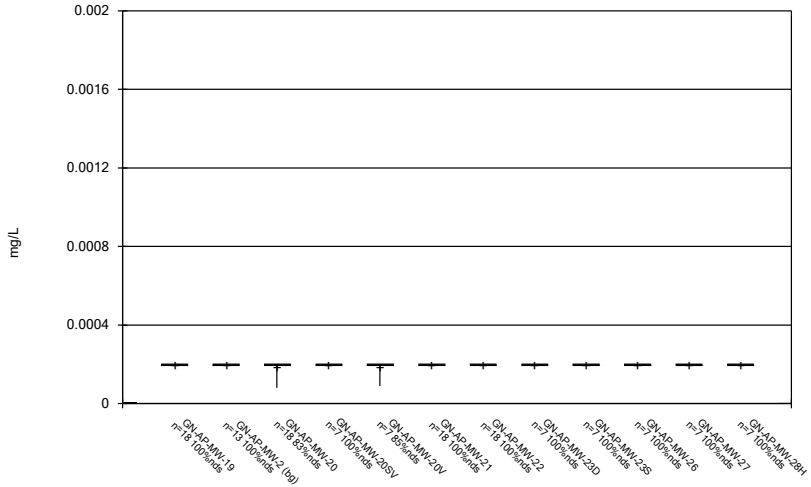


Constituent: Cadmium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

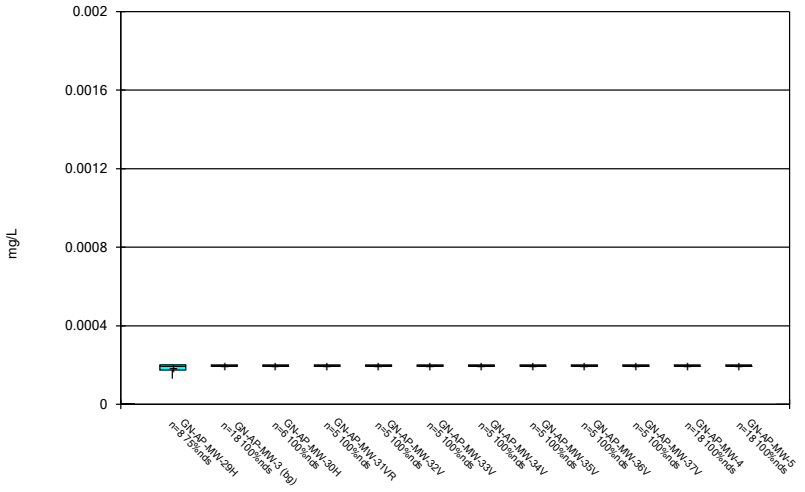


Constituent: Cadmium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

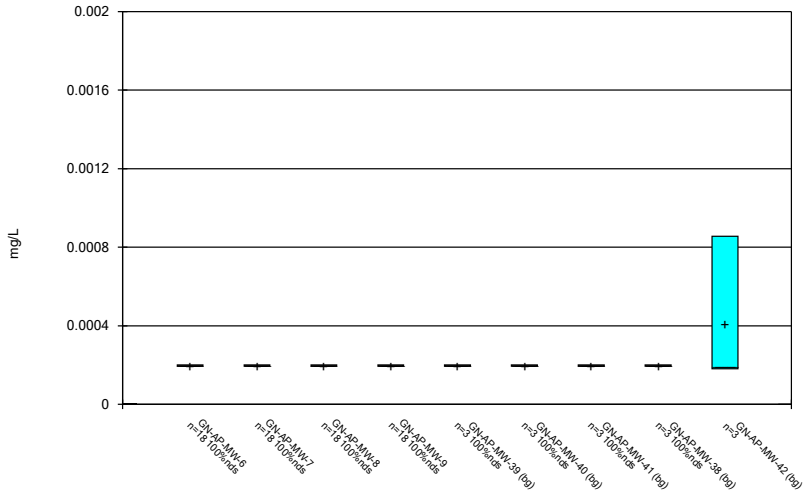


Constituent: Cadmium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

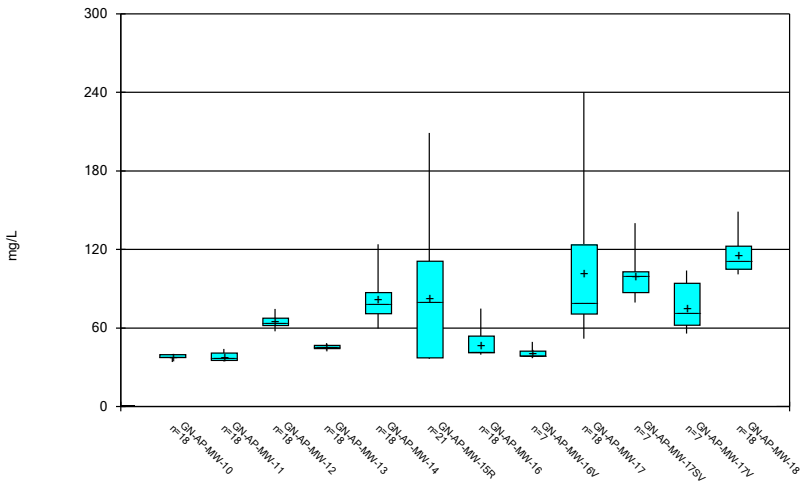
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

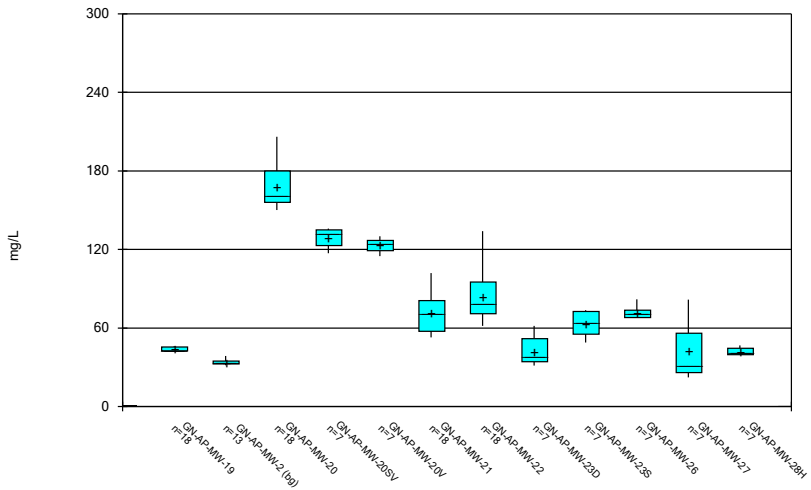


Constituent: Calcium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

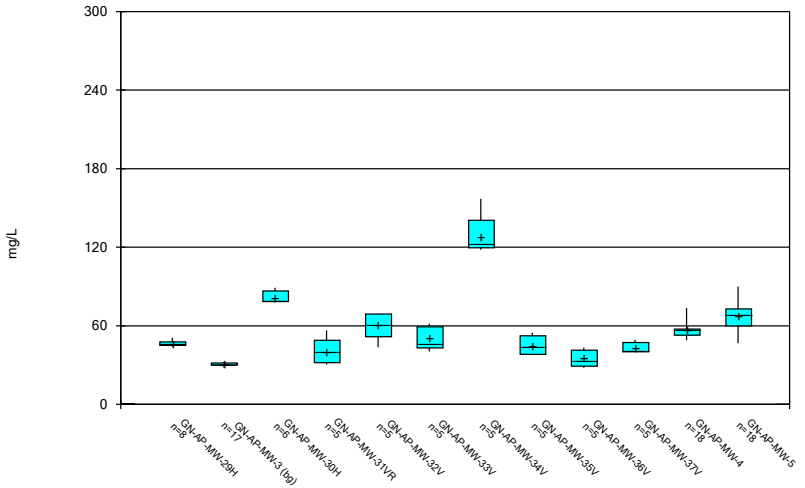


Constituent: Calcium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

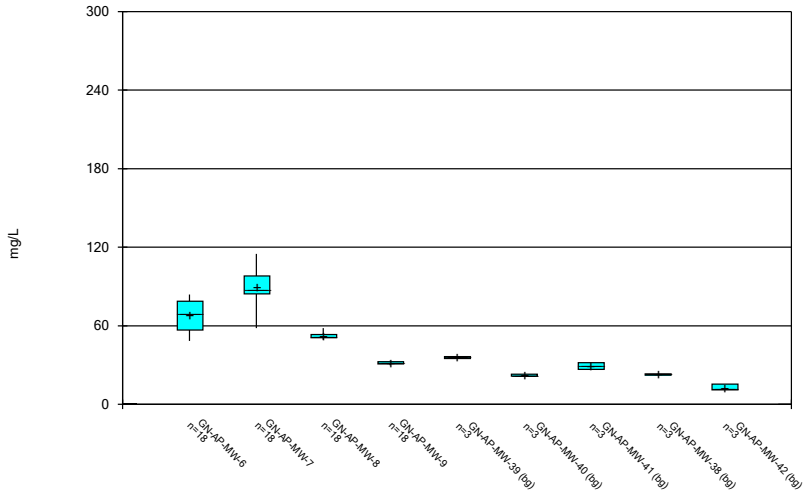


Constituent: Calcium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

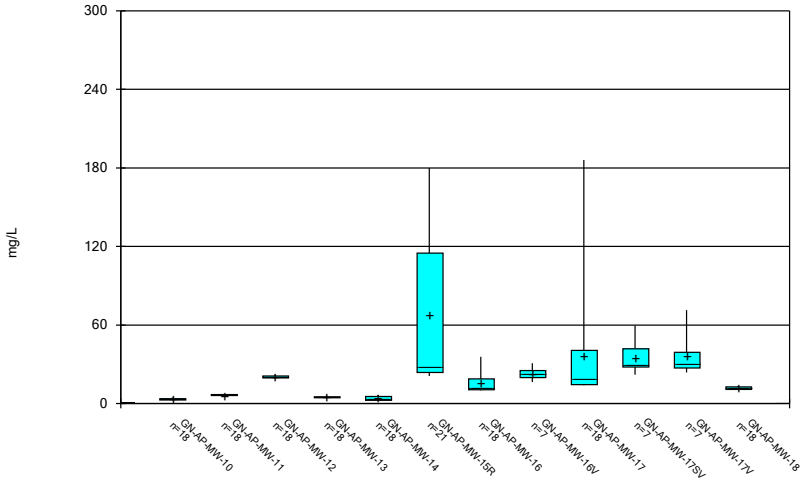
Box & Whiskers Plot



Constituent: Calcium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

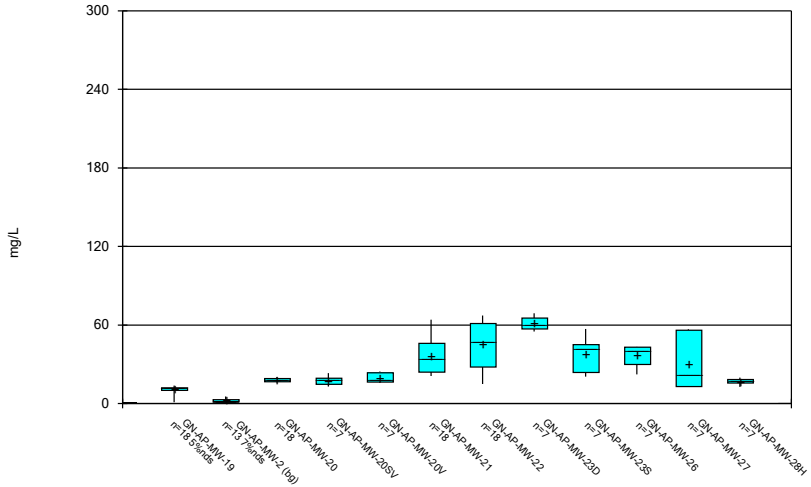


Constituent: Chloride Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

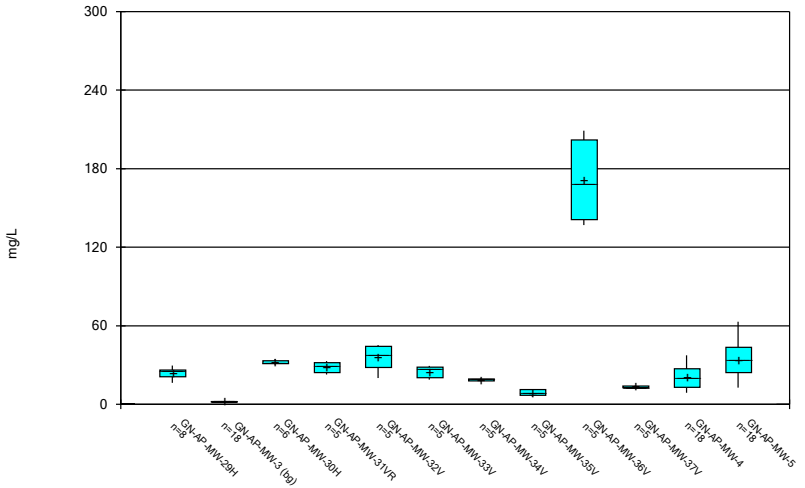


Constituent: Chloride Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

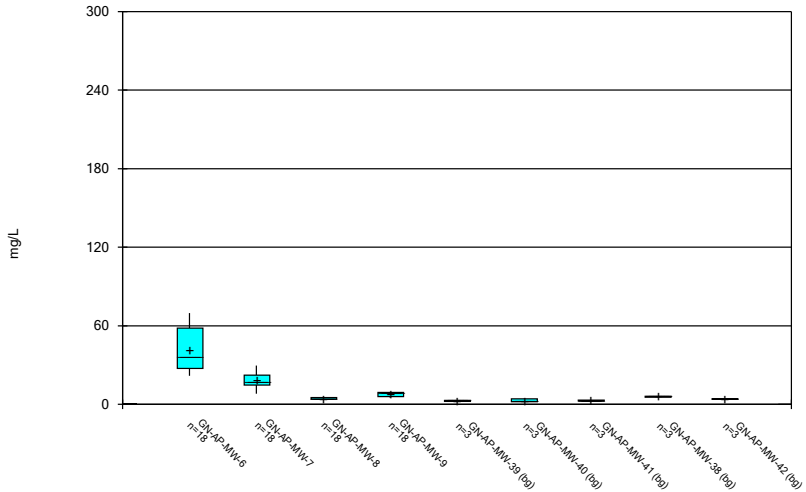


Constituent: Chloride Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

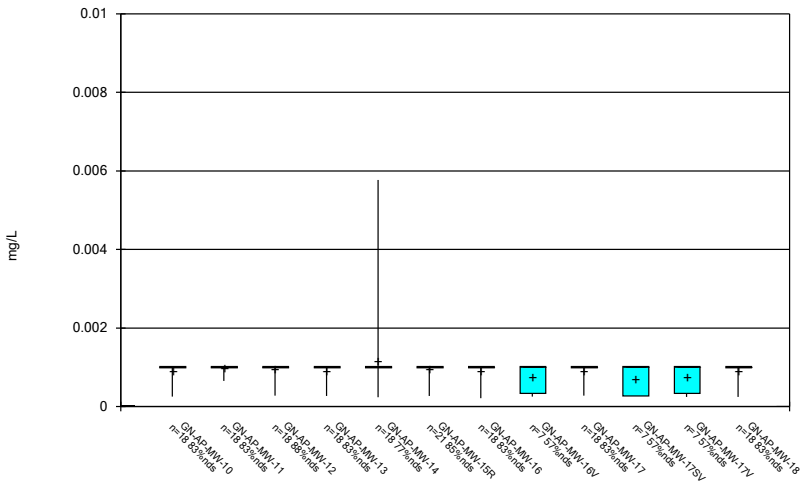
Box & Whiskers Plot



Constituent: Chloride Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

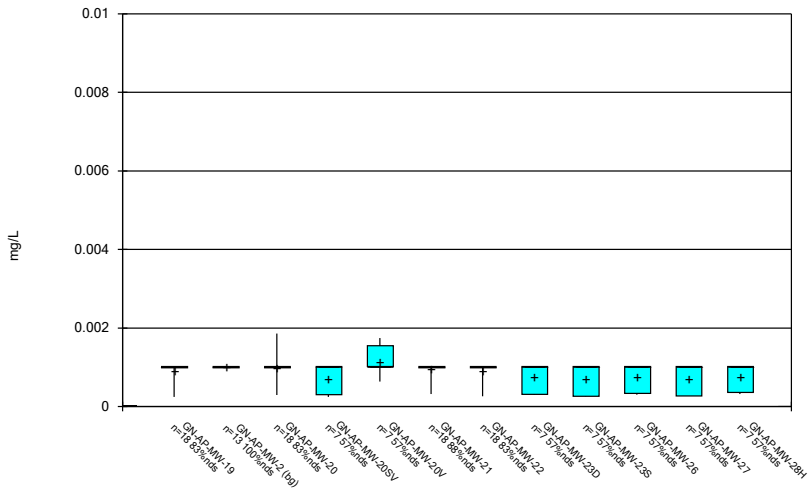


Constituent: Chromium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

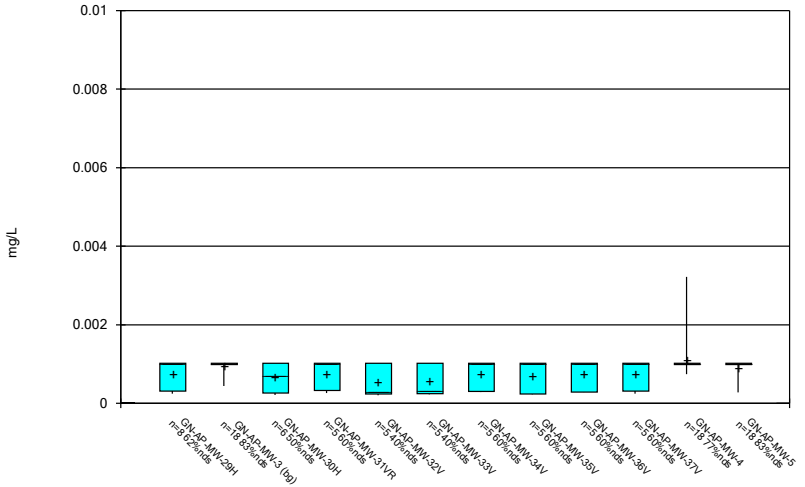


Constituent: Chromium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

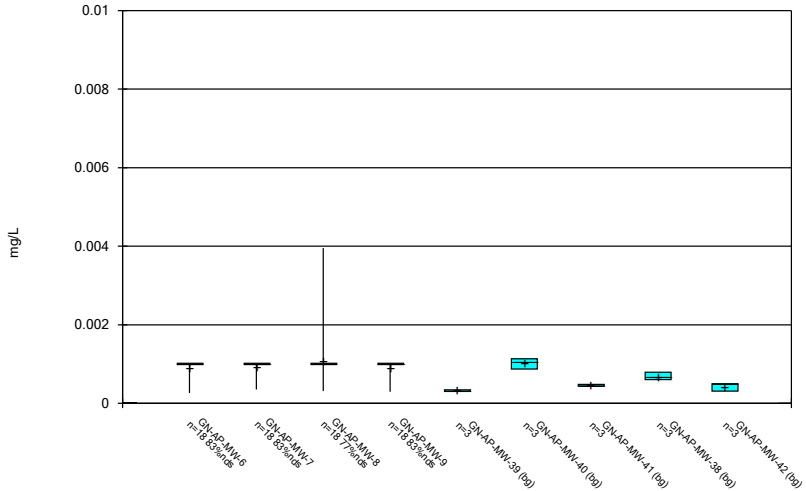


Constituent: Chromium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

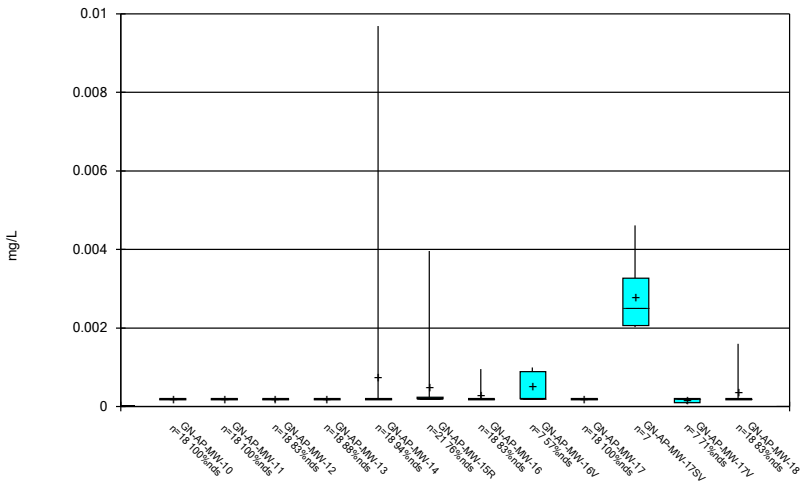
Box & Whiskers Plot



Constituent: Chromium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

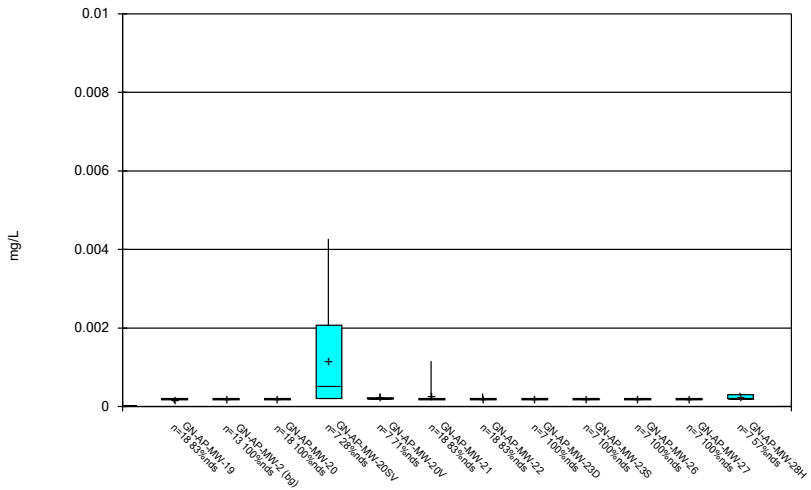


Constituent: Cobalt Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

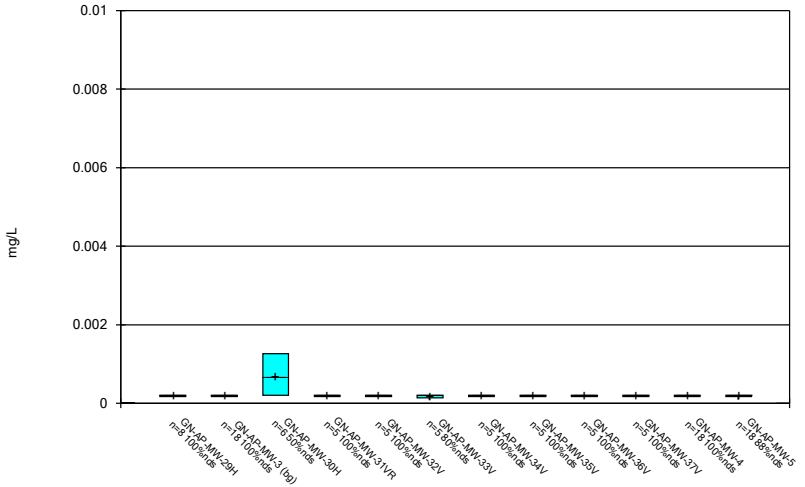


Constituent: Cobalt Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

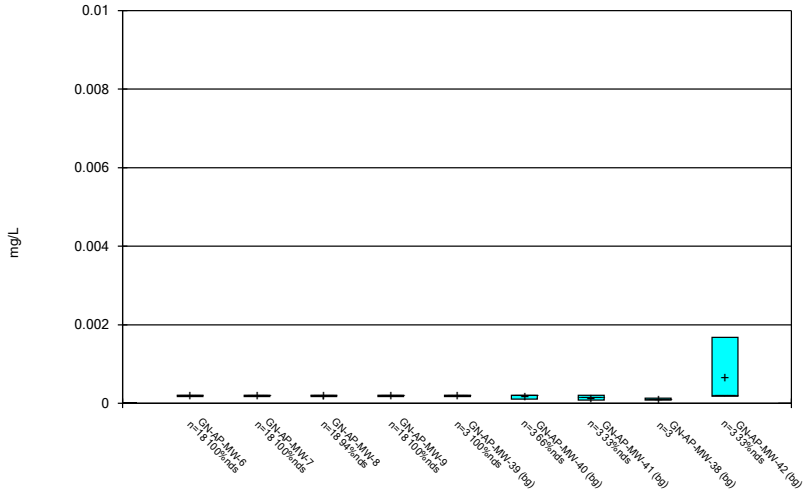


Constituent: Cobalt Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

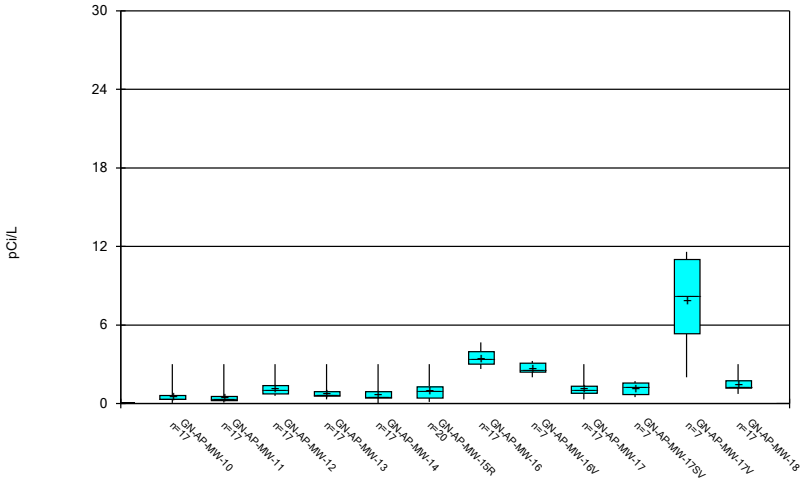
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

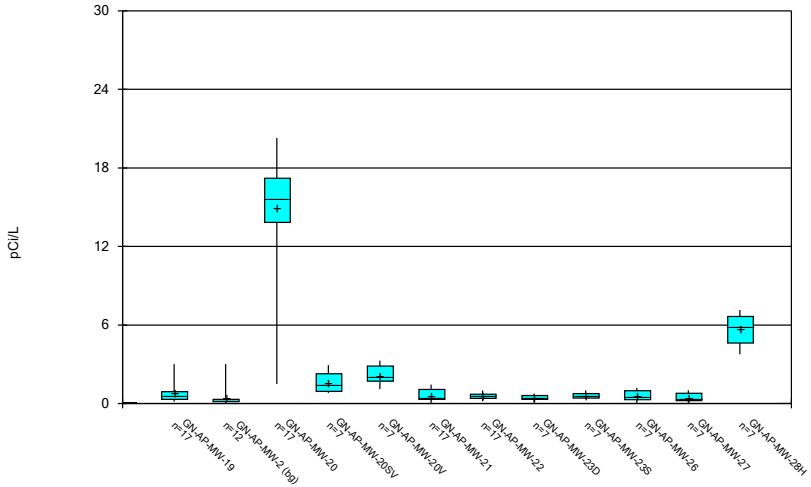
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:38 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

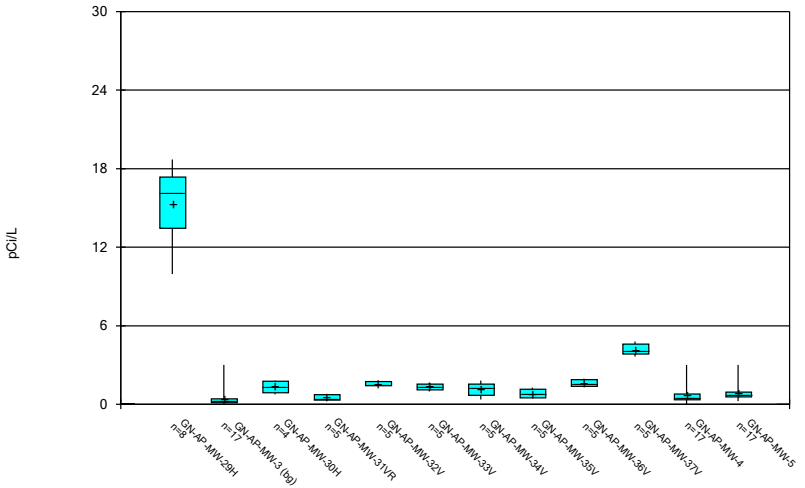
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:38 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

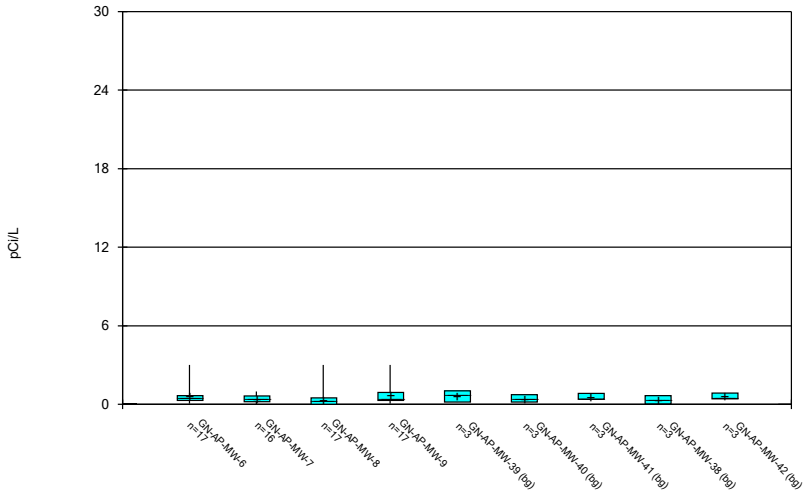
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:38 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

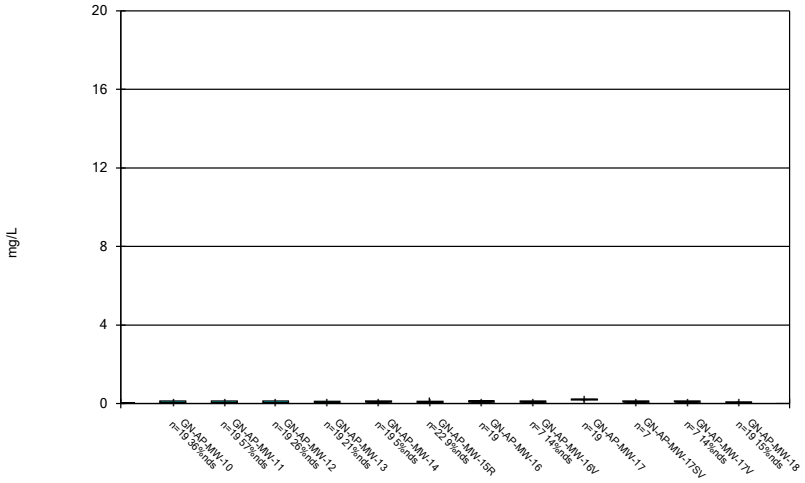
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:38 PM
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

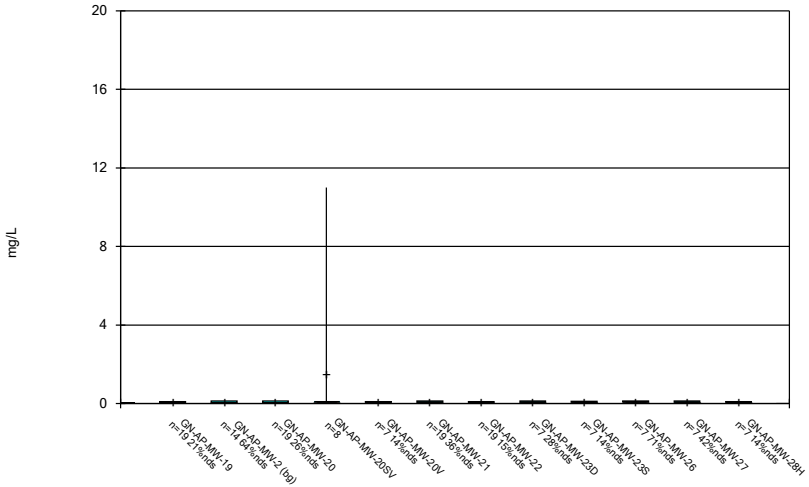


Constituent: Fluoride Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

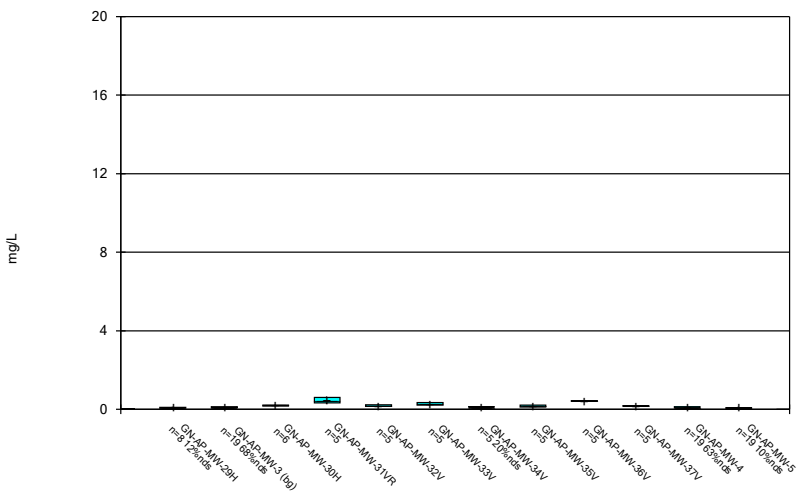


Constituent: Fluoride Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

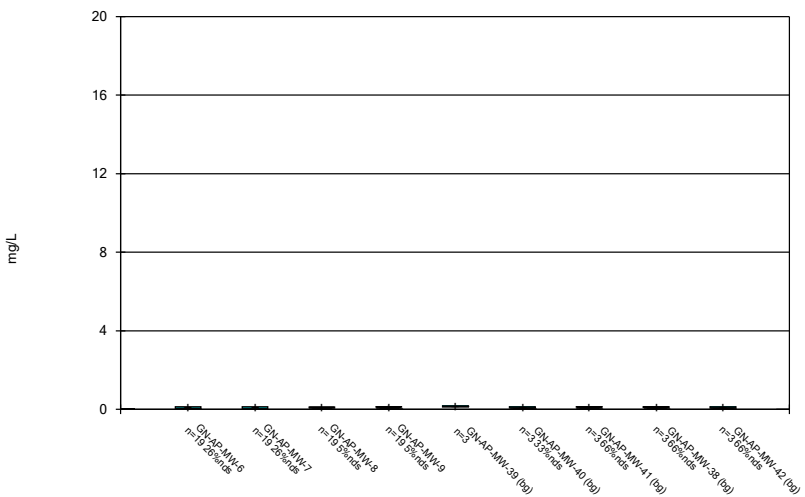


Constituent: Fluoride Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

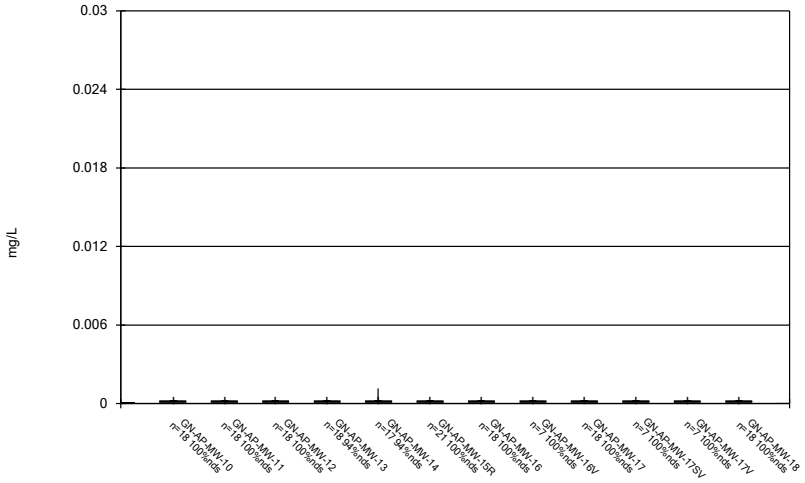
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

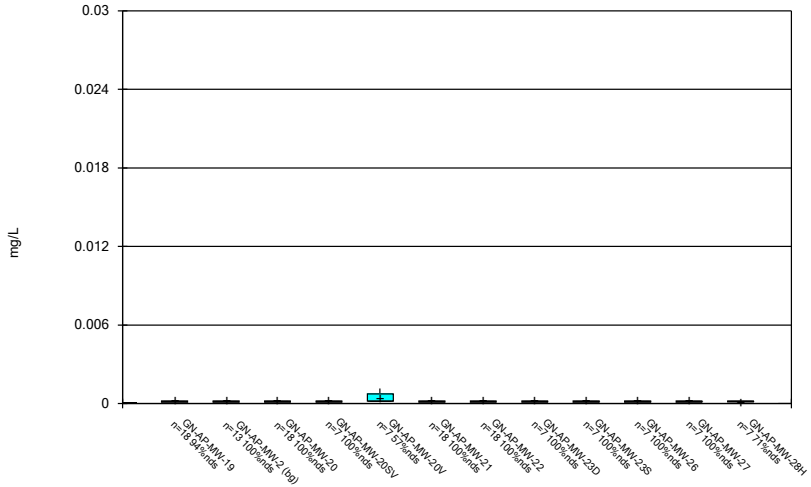


Constituent: Lead Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

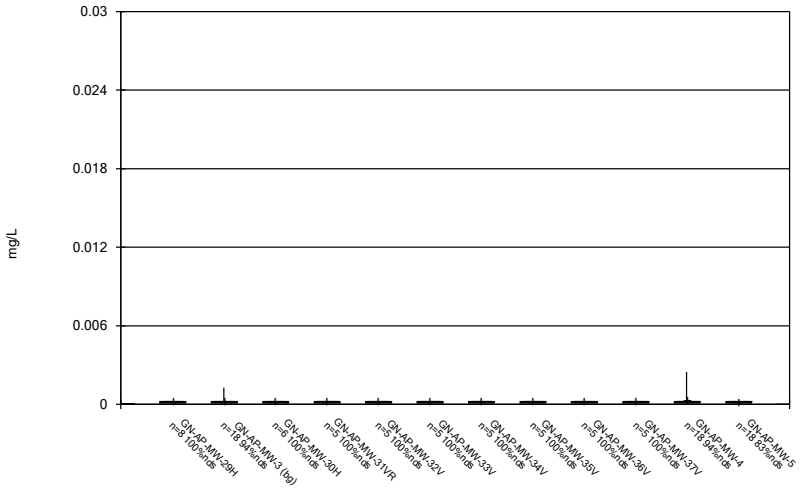


Constituent: Lead Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

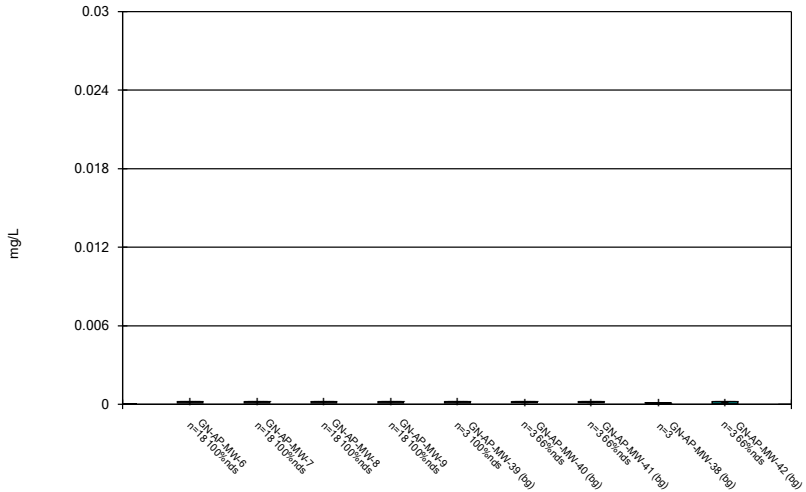


Constituent: Lead Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

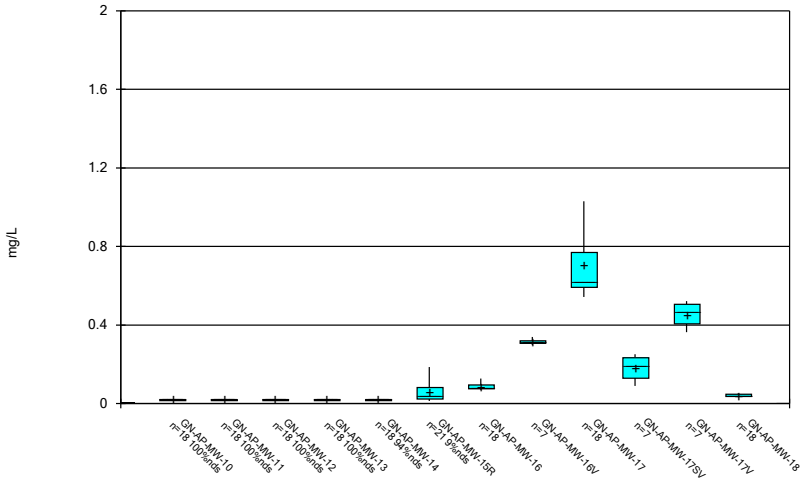
Box & Whiskers Plot



Constituent: Lead Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

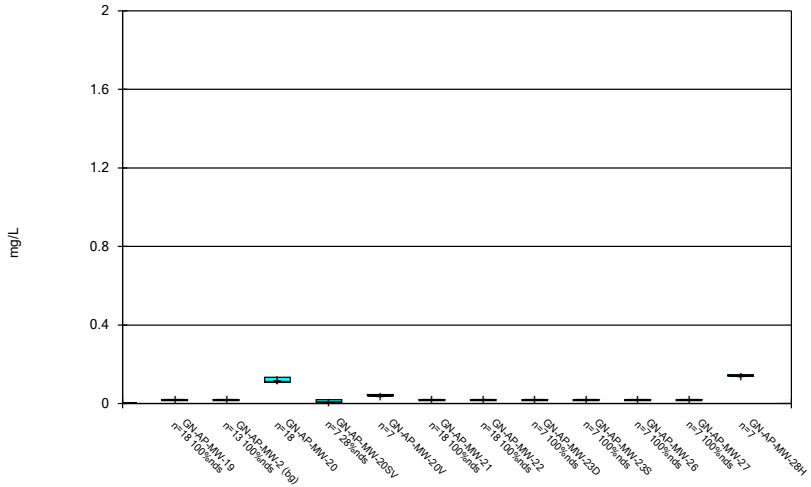


Constituent: Lithium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

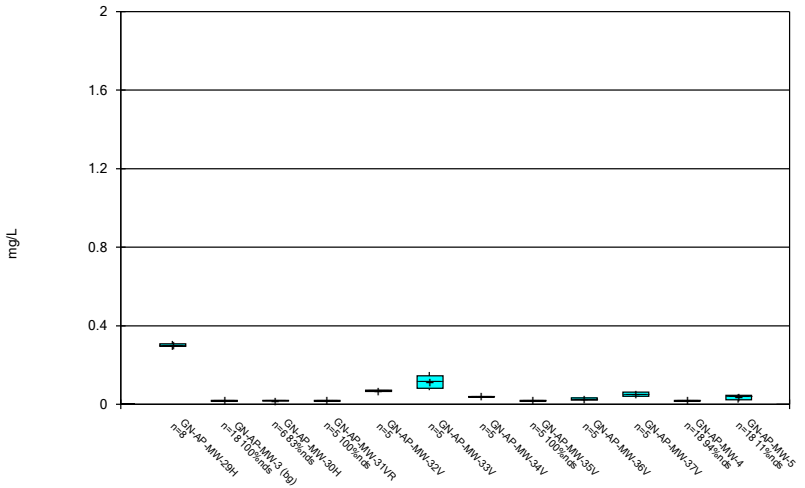


Constituent: Lithium Analysis Run 7/15/2022 2:38 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

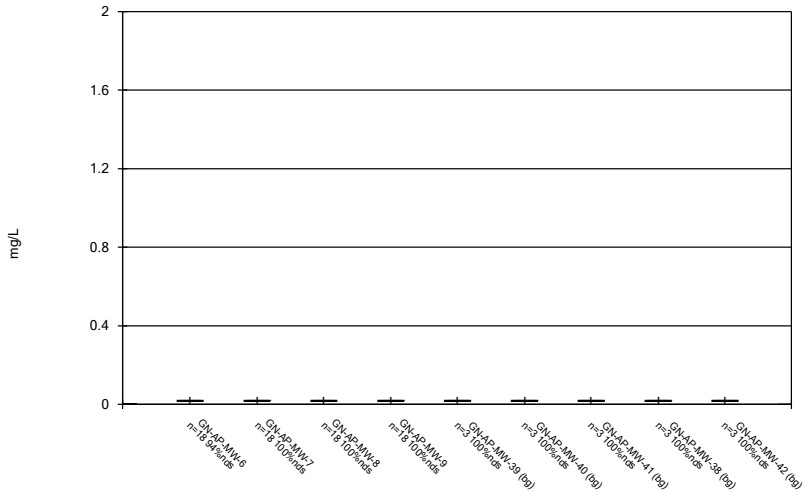


Constituent: Lithium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

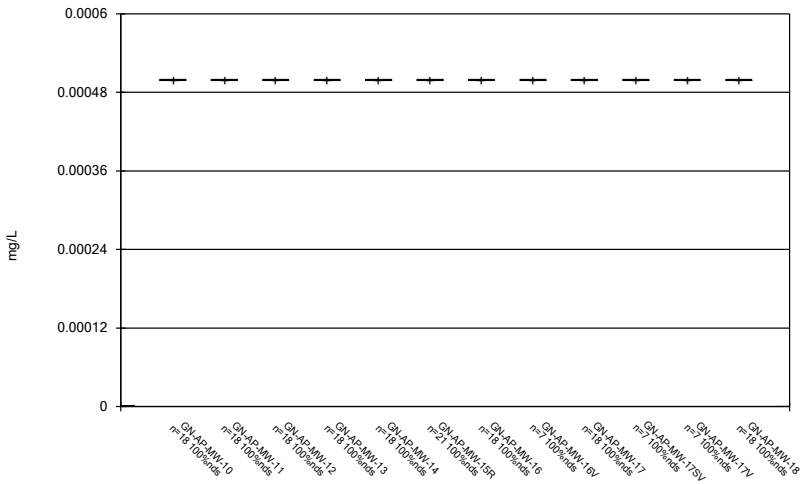
Box & Whiskers Plot



Constituent: Lithium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

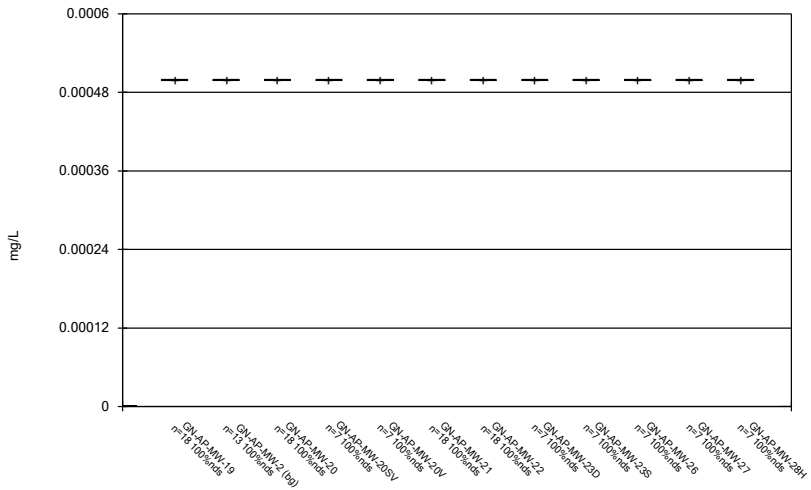


Constituent: Mercury Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

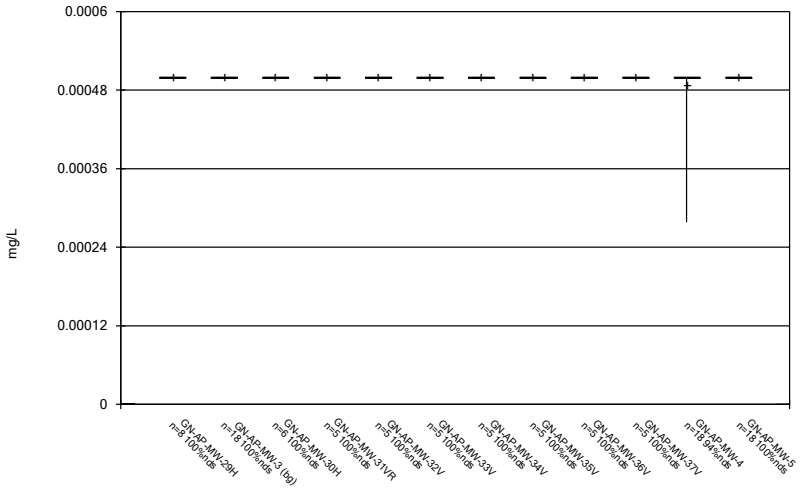


Constituent: Mercury Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

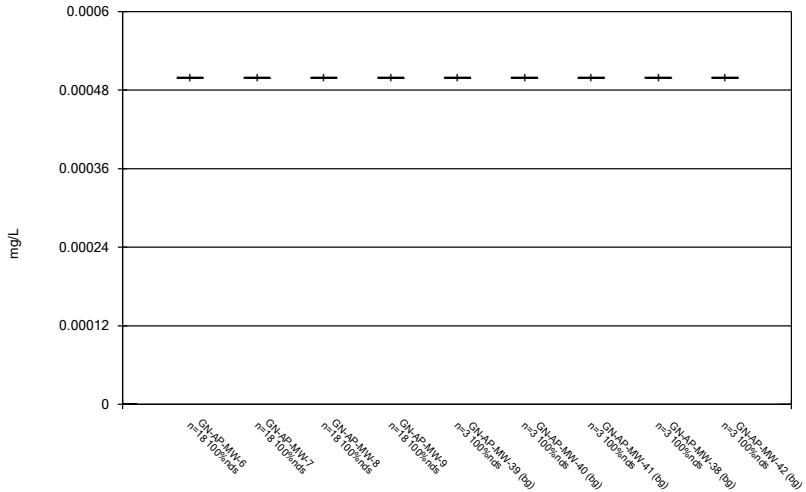


Constituent: Mercury Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

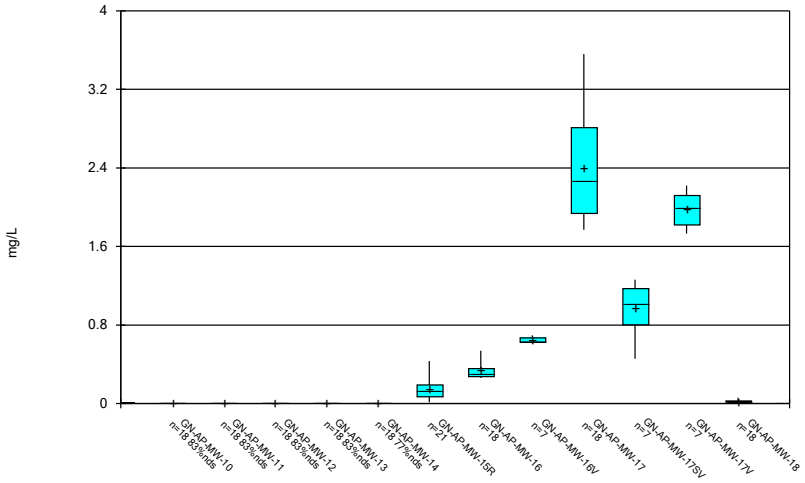
Box & Whiskers Plot



Constituent: Mercury Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

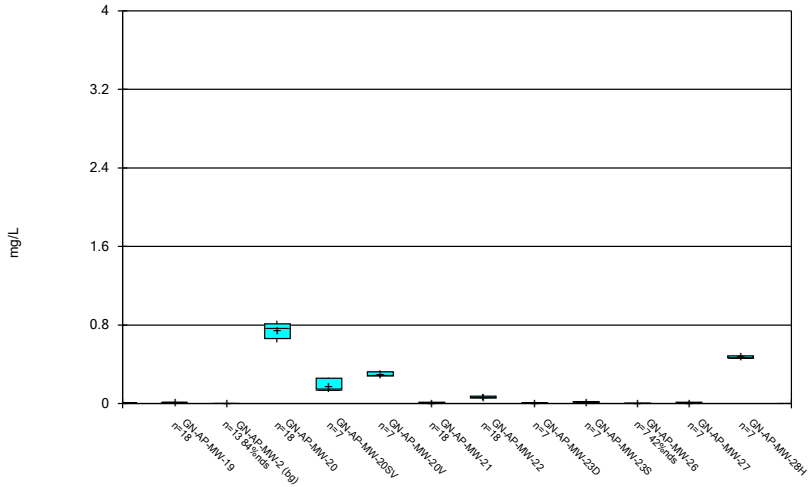


Constituent: Molybdenum Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

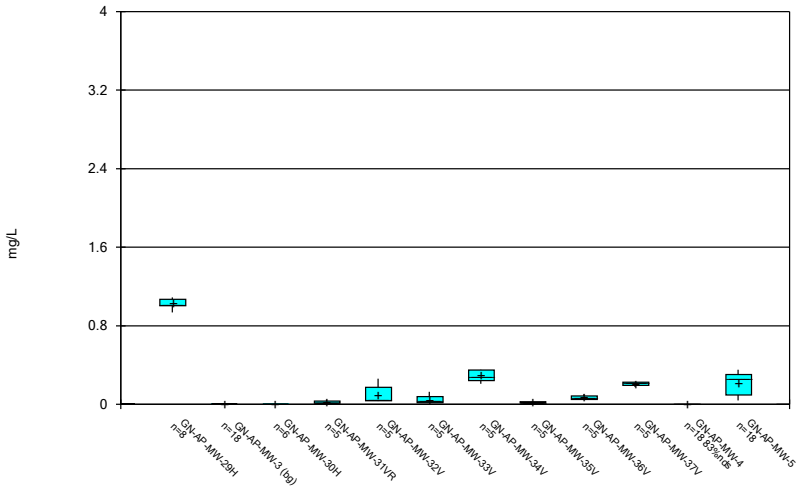


Constituent: Molybdenum Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

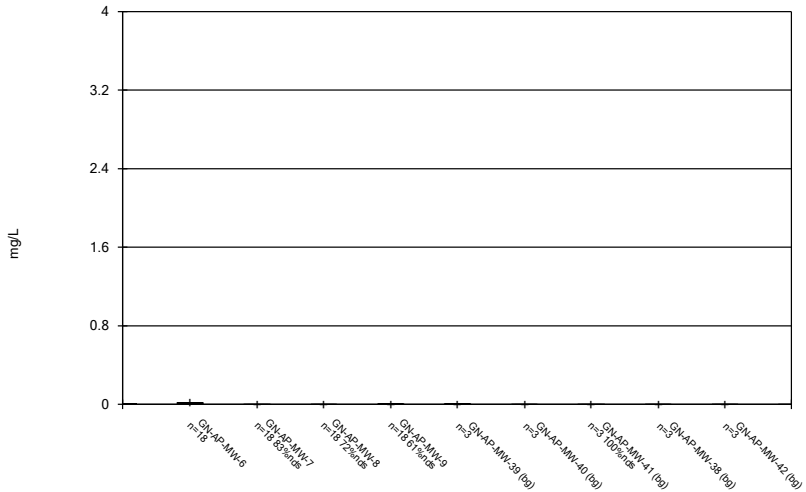


Constituent: Molybdenum Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

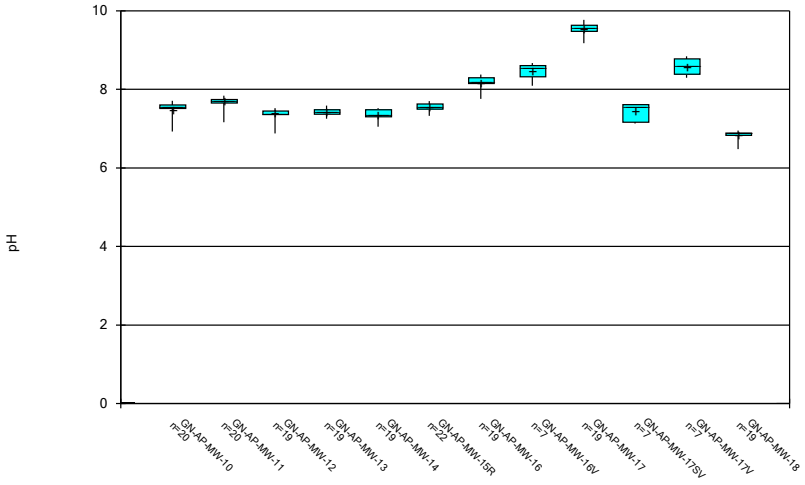
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

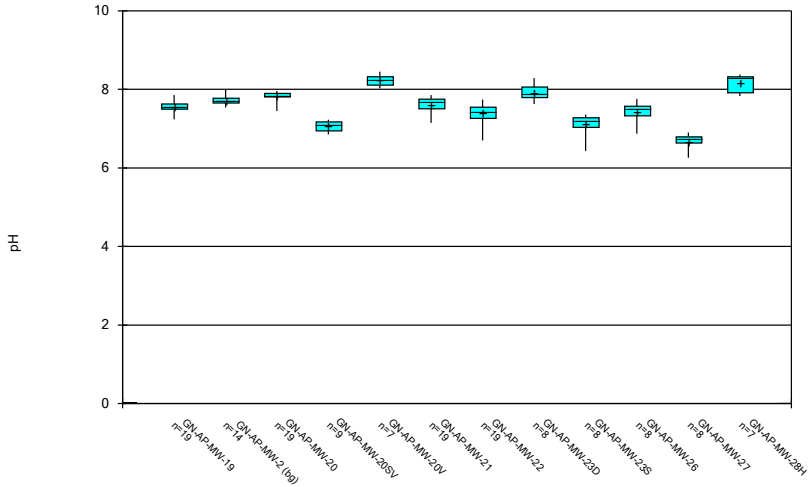


Constituent: pH Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

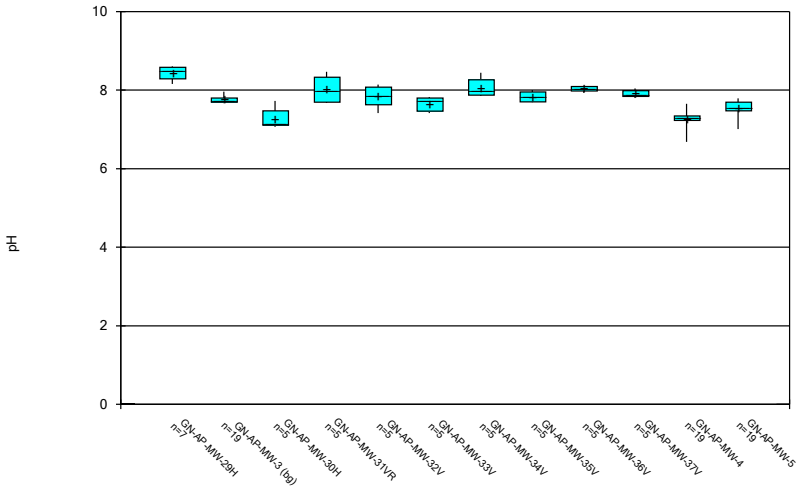


Constituent: pH Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

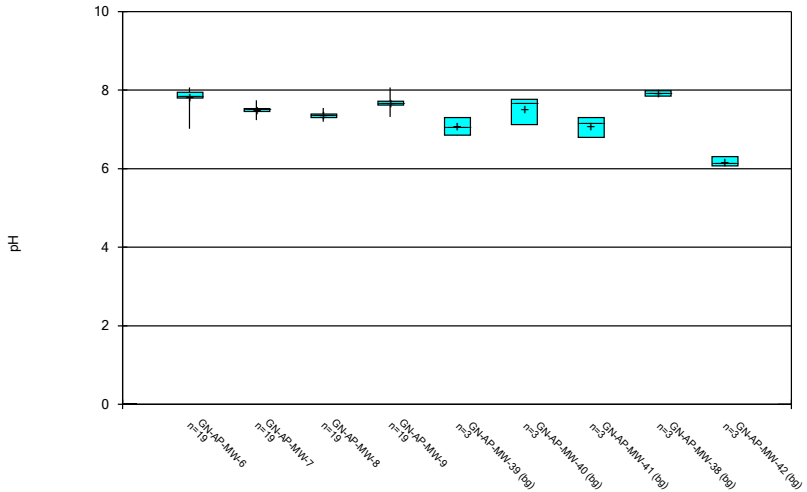


Constituent: pH Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

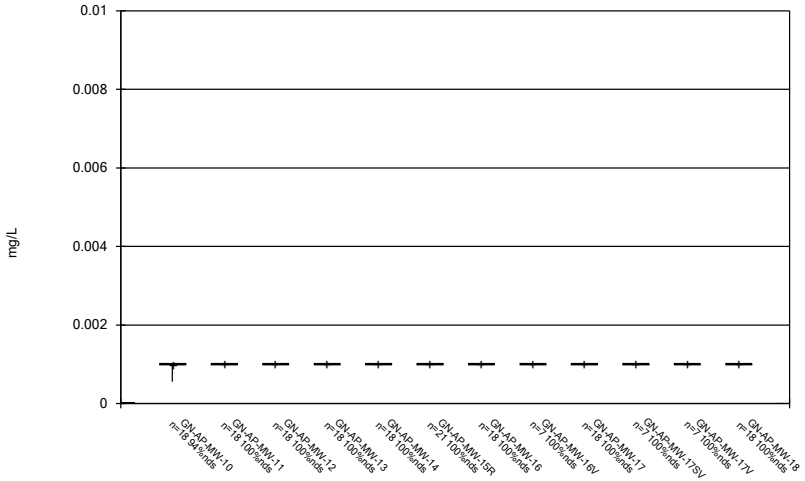
Box & Whiskers Plot



Constituent: pH Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

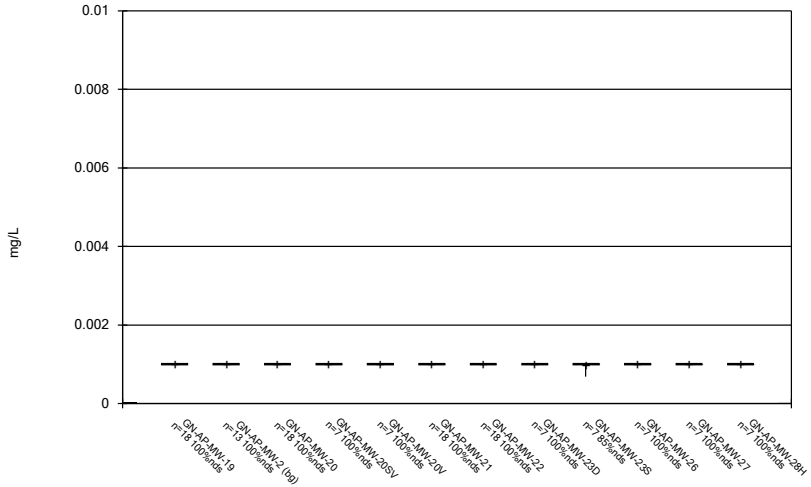


Constituent: Selenium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

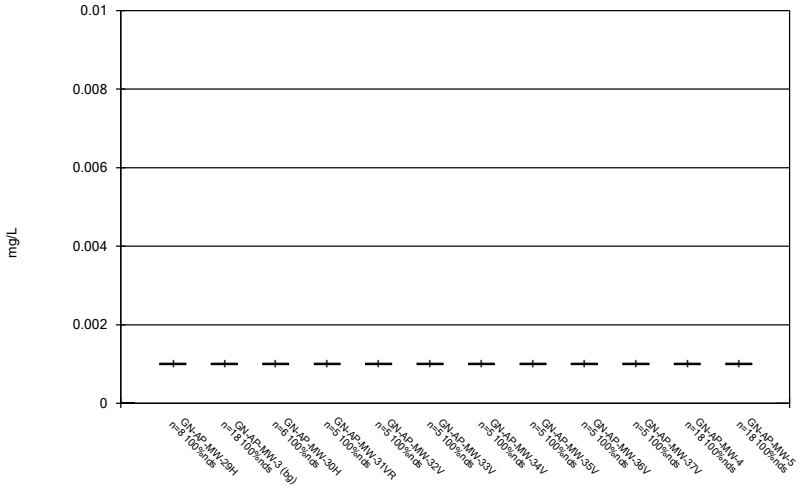


Constituent: Selenium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

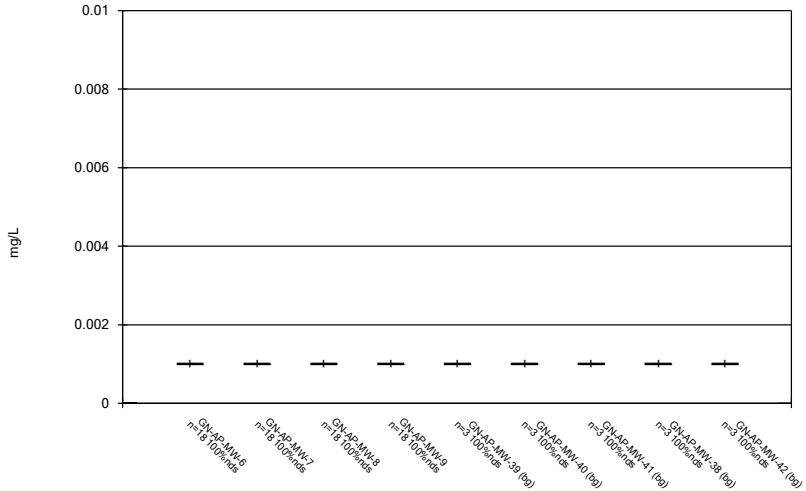


Constituent: Selenium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

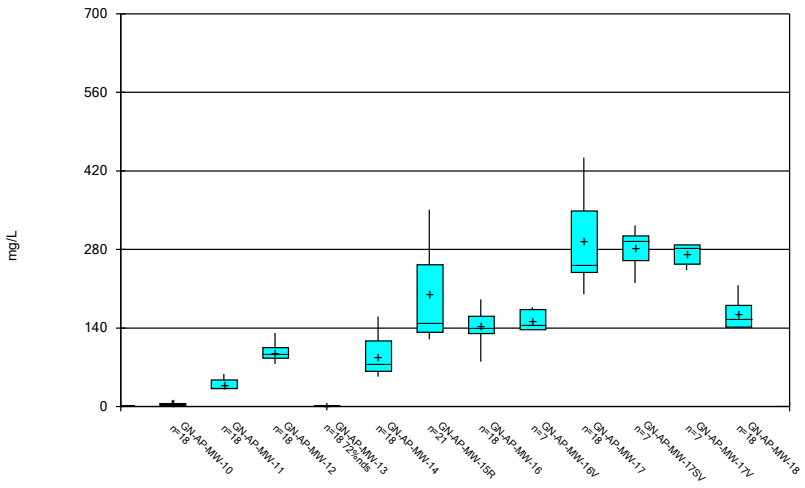
Box & Whiskers Plot



Constituent: Selenium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

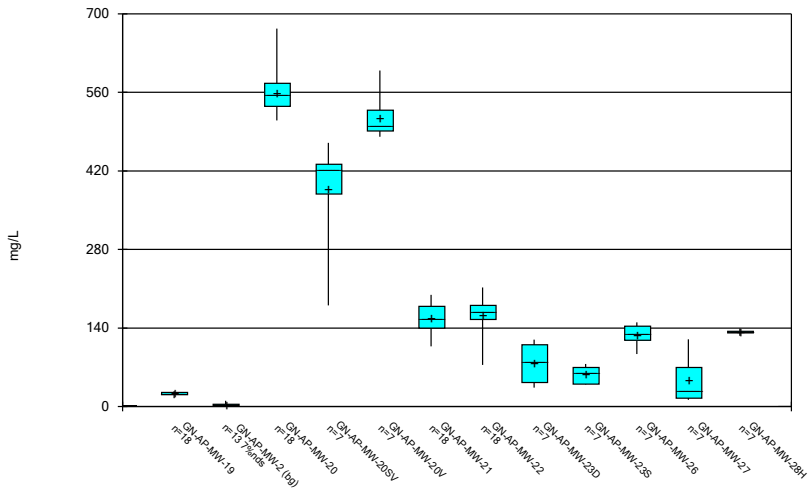


Constituent: Sulfate Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

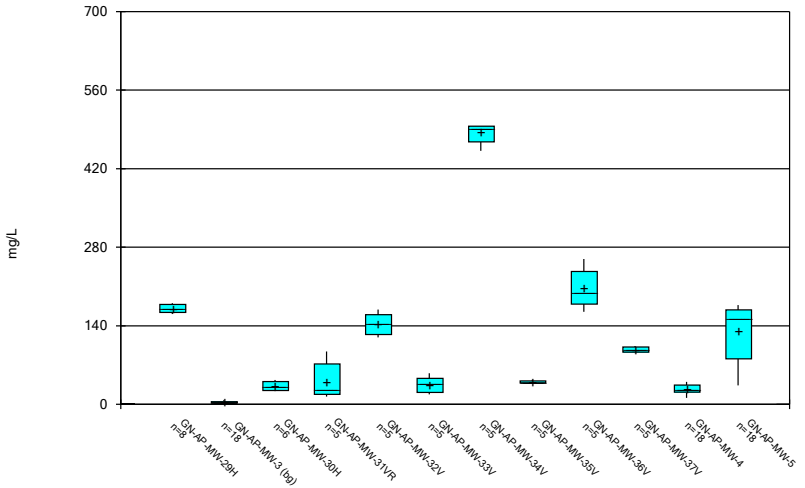


Constituent: Sulfate Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

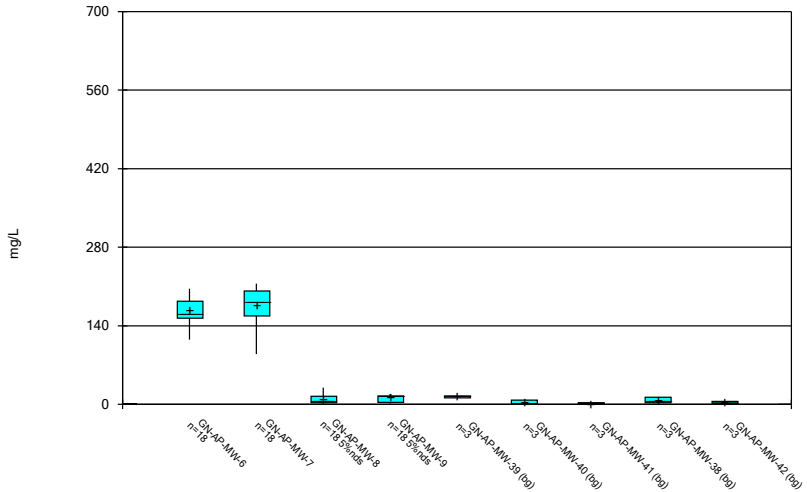


Constituent: Sulfate Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

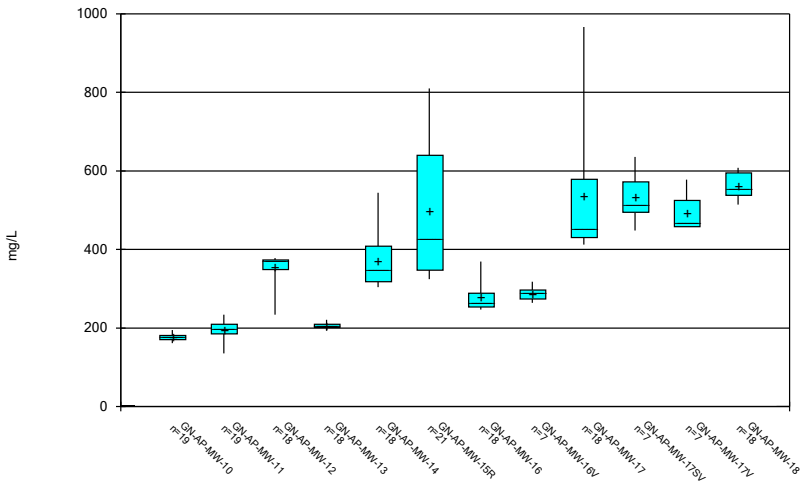
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

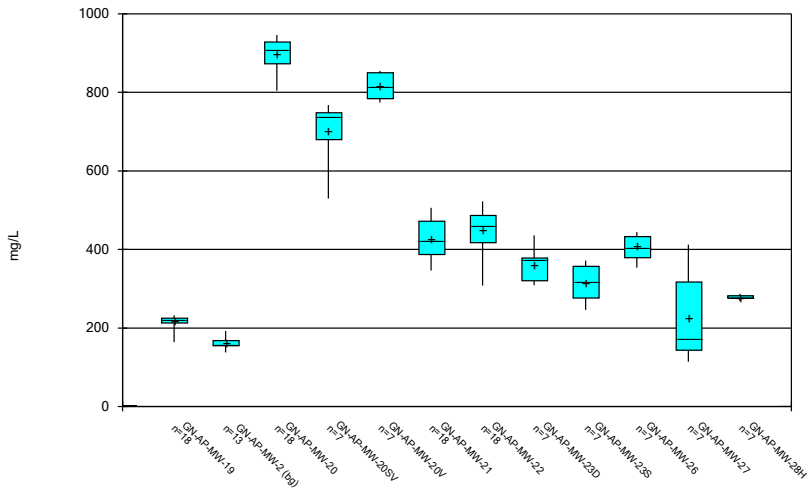


Constituent: TDS Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

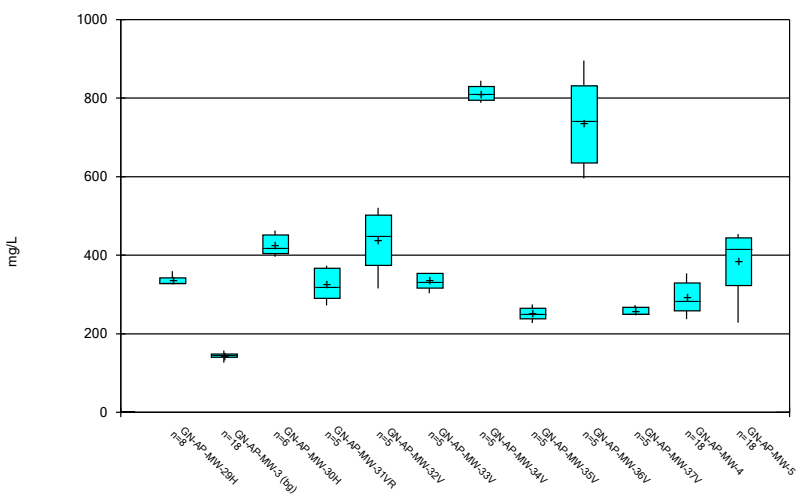


Constituent: TDS Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

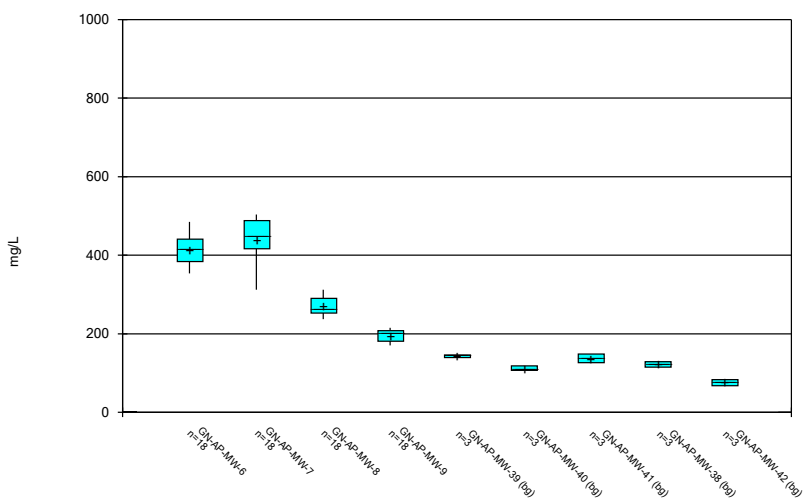


Constituent: TDS Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

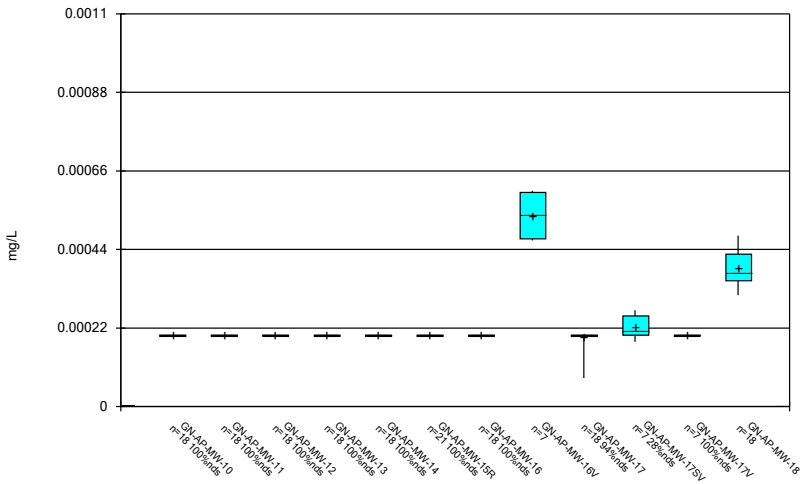
Box & Whiskers Plot



Constituent: TDS Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot

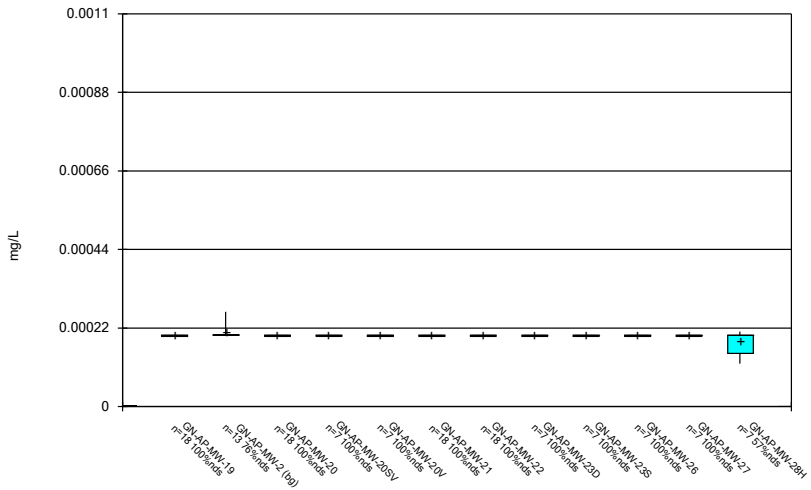


Constituent: Thallium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

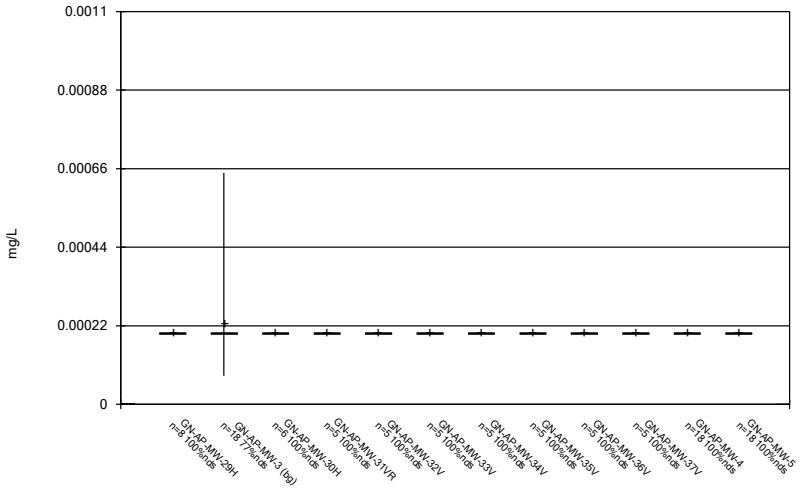


Constituent: Thallium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot

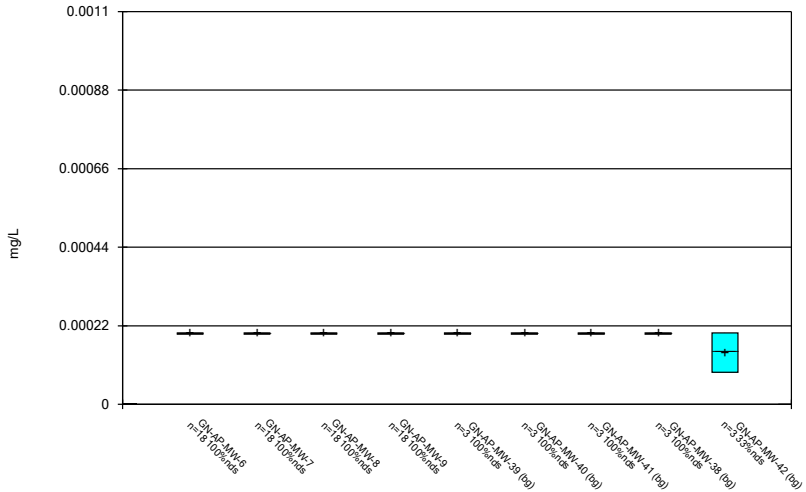


Constituent: Thallium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 7/15/2022 2:39 PM

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

CLD ¦ w9 /ϕ

Outlier Summary

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/15/2022, 2:41 PM

	GN-AP-MW-3 Calcium (mg/L)	GN-AP-MW-14 Lead (mg/L)
3/28/2016		0.0202 (o)
3/1/2017	<0.5 (o)	

CLD ¦ w9 5ϕ

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.1015	n/a	5/2/2022	0.324	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-12	0.1015	n/a	5/3/2022	0.465	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-15R	0.1015	n/a	5/2/2022	2.36	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-16	0.1015	n/a	4/27/2022	1.47	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-17	0.1015	n/a	4/20/2022	3.43	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-18	0.1015	n/a	4/26/2022	1.65	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-20	0.1015	n/a	4/20/2022	4.49	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-21	0.1015	n/a	5/3/2022	1.61	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-22	0.1015	n/a	5/3/2022	1	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-4	0.1015	n/a	5/2/2022	0.109	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-5	0.1015	n/a	5/3/2022	0.562	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-6	0.1015	n/a	5/3/2022	1.81	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-7	0.1015	n/a	5/3/2022	1.3	Yes	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-11	38.36	n/a	5/2/2022	43.4	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-12	38.36	n/a	5/3/2022	65.3	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-13	38.36	n/a	5/2/2022	44.1	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-14	38.36	n/a	4/27/2022	85.3	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-15R	38.36	n/a	5/2/2022	93.2	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-16	38.36	n/a	4/27/2022	74.9	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-17	38.36	n/a	4/20/2022	240	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-18	38.36	n/a	4/26/2022	149	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-19	38.36	n/a	4/19/2022	45.6	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-20	38.36	n/a	4/20/2022	182	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-21	38.36	n/a	5/3/2022	73	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-22	38.36	n/a	5/3/2022	64	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-4	38.36	n/a	5/2/2022	56.8	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-5	38.36	n/a	5/3/2022	56.6	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-6	38.36	n/a	5/3/2022	68.8	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-7	38.36	n/a	5/3/2022	69	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-8	38.36	n/a	5/2/2022	52.4	Yes	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-11	6.09	n/a	5/2/2022	6.86	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-12	6.09	n/a	5/3/2022	18.9	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-15R	6.09	n/a	5/2/2022	79.9	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-16	6.09	n/a	4/27/2022	35.8	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-17	6.09	n/a	4/20/2022	186	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-18	6.09	n/a	4/26/2022	13.5	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-19	6.09	n/a	4/19/2022	13.7	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-20	6.09	n/a	4/20/2022	19.9	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-21	6.09	n/a	5/3/2022	30.6	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-22	6.09	n/a	5/3/2022	14.8	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-4	6.09	n/a	5/2/2022	8.75	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-5	6.09	n/a	5/3/2022	12.8	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-6	6.09	n/a	5/3/2022	26.9	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-7	6.09	n/a	5/3/2022	12.6	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-9	6.09	n/a	5/2/2022	8.5	Yes	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-16	7.99	6.07	4/27/2022	8.17	Yes	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-17	7.99	6.07	4/20/2022	9.25	Yes	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-11	14.35	n/a	5/2/2022	58.3	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-12	14.35	n/a	5/3/2022	97	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-14	14.35	n/a	4/27/2022	118	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-15R	14.35	n/a	5/2/2022	224	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-16	14.35	n/a	4/27/2022	191	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-17	14.35	n/a	4/20/2022	444	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-18	14.35	n/a	4/26/2022	216	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-19	14.35	n/a	4/19/2022	27.6	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-20	14.35	n/a	4/20/2022	575	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-21	14.35	n/a	5/3/2022	131	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-22	14.35	n/a	5/3/2022	74.2	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-5	14.35	n/a	5/3/2022	34	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-6	14.35	n/a	5/3/2022	115	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-7	14.35	n/a	5/3/2022	107	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-9	14.35	n/a	5/2/2022	17.9	Yes	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	GN-AP-MW-11	185	n/a	5/2/2022	234	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-12	185	n/a	5/3/2022	371	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-13	185	n/a	5/2/2022	201	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-14	185	n/a	4/27/2022	417	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-15R	185	n/a	5/2/2022	574	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-16	185	n/a	4/27/2022	369	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-17	185	n/a	4/20/2022	967	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-18	185	n/a	4/26/2022	596	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-19	185	n/a	4/19/2022	225	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-20	185	n/a	4/20/2022	946	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-21	185	n/a	5/3/2022	388	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-22	185	n/a	5/3/2022	308	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-4	185	n/a	5/2/2022	248	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-5	185	n/a	5/3/2022	239	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-6	185	n/a	5/3/2022	376	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-7	185	n/a	5/3/2022	329	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-8	185	n/a	5/2/2022	237	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-9	185	n/a	5/2/2022	209	Yes	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-10	0.1015	n/a	5/2/2022	0.0352J	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GN-AP-MW-11**	**0.1015**	**n/a**	**5/2/2022**	**0.324**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-12**	**0.1015**	**n/a**	**5/3/2022**	**0.465**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GN-AP-MW-13	0.1015	n/a	5/2/2022	0.1015ND	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-14	0.1015	n/a	4/27/2022	0.1015ND	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GN-AP-MW-15R**	**0.1015**	**n/a**	**5/2/2022**	**2.36**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-16**	**0.1015**	**n/a**	**4/27/2022**	**1.47**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-17**	**0.1015**	**n/a**	**4/20/2022**	**3.43**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-18**	**0.1015**	**n/a**	**4/26/2022**	**1.65**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GN-AP-MW-19	0.1015	n/a	4/19/2022	0.1015ND	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GN-AP-MW-20**	**0.1015**	**n/a**	**4/20/2022**	**4.49**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-21**	**0.1015**	**n/a**	**5/3/2022**	**1.61**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-22**	**0.1015**	**n/a**	**5/3/2022**	**1**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-4**	**0.1015**	**n/a**	**5/2/2022**	**0.109**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-5**	**0.1015**	**n/a**	**5/3/2022**	**0.562**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-6**	**0.1015**	**n/a**	**5/3/2022**	**1.81**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GN-AP-MW-7**	**0.1015**	**n/a**	**5/3/2022**	**1.3**	**Yes**	**46**	**n/a**	**n/a**	**97.83**	**n/a**	**n/a**	**0.0008518**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GN-AP-MW-8	0.1015	n/a	5/2/2022	0.0313J	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-9	0.1015	n/a	5/2/2022	0.1015ND	No	46	n/a	n/a	97.83	n/a	n/a	0.0008518	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-10	38.36	n/a	5/2/2022	37.8	No	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	**GN-AP-MW-11**	**38.36**	**n/a**	**5/2/2022**	**43.4**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-12**	**38.36**	**n/a**	**5/3/2022**	**65.3**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-13**	**38.36**	**n/a**	**5/2/2022**	**44.1**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-14**	**38.36**	**n/a**	**4/27/2022**	**85.3**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-15R**	**38.36**	**n/a**	**5/2/2022**	**93.2**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-16**	**38.36**	**n/a**	**4/27/2022**	**74.9**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-17**	**38.36**	**n/a**	**4/20/2022**	**240**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-18**	**38.36**	**n/a**	**4/26/2022**	**149**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-19**	**38.36**	**n/a**	**4/19/2022**	**45.6**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-20**	**38.36**	**n/a**	**4/20/2022**	**182**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-21**	**38.36**	**n/a**	**5/3/2022**	**73**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-22**	**38.36**	**n/a**	**5/3/2022**	**64**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-4**	**38.36**	**n/a**	**5/2/2022**	**56.8**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-5**	**38.36**	**n/a**	**5/3/2022**	**56.6**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-6**	**38.36**	**n/a**	**5/3/2022**	**68.8**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-7**	**38.36**	**n/a**	**5/3/2022**	**69**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	**GN-AP-MW-8**	**38.36**	**n/a**	**5/2/2022**	**52.4**	**Yes**	**45**	**28562**	**12598**	**0**	**None**	**x^3**	**0.000396**	**Param Inter 1 of 2**
Calcium (mg/L)	GN-AP-MW-9	38.36	n/a	5/2/2022	30.9	No	45	28562	12598	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-10	6.09	n/a	5/2/2022	3.2	No	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GN-AP-MW-11**	**6.09**	**n/a**	**5/2/2022**	**6.86**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-12**	**6.09**	**n/a**	**5/3/2022**	**18.9**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GN-AP-MW-13	6.09	n/a	5/2/2022	4.32	No	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-14	6.09	n/a	4/27/2022	4.1	No	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GN-AP-MW-15R**	**6.09**	**n/a**	**5/2/2022**	**79.9**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-16**	**6.09**	**n/a**	**4/27/2022**	**35.8**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-17**	**6.09**	**n/a**	**4/20/2022**	**186**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-18**	**6.09**	**n/a**	**4/26/2022**	**13.5**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-19**	**6.09**	**n/a**	**4/19/2022**	**13.7**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-20**	**6.09**	**n/a**	**4/20/2022**	**19.9**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-21**	**6.09**	**n/a**	**5/3/2022**	**30.6**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-22**	**6.09**	**n/a**	**5/3/2022**	**14.8**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-4**	**6.09**	**n/a**	**5/2/2022**	**8.75**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-5**	**6.09**	**n/a**	**5/3/2022**	**12.8**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-6**	**6.09**	**n/a**	**5/3/2022**	**26.9**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GN-AP-MW-7**	**6.09**	**n/a**	**5/3/2022**	**12.6**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GN-AP-MW-8	6.09	n/a	5/2/2022	3.33	No	46	n/a	n/a	2.174	n/a	n/a	0.0008518	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GN-AP-MW-9**	**6.09**	**n/a**	**5/2/2022**	**8.5**	**Yes**	**46**	**n/a**	**n/a**	**2.174**	**n/a**	**n/a**	**0.0008518**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GN-AP-MW-10	0.181	n/a	5/2/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-11	0.181	n/a	5/2/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-12	0.181	n/a	5/3/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-13	0.181	n/a	5/2/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-14	0.181	n/a	4/27/2022	0.0652J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-15R	0.181	n/a	5/2/2022	0.08J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-16	0.181	n/a	4/27/2022	0.0766J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-17	0.181	n/a	4/20/2022	0.128	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-18	0.181	n/a	4/26/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-19	0.181	n/a	4/19/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:00 AM

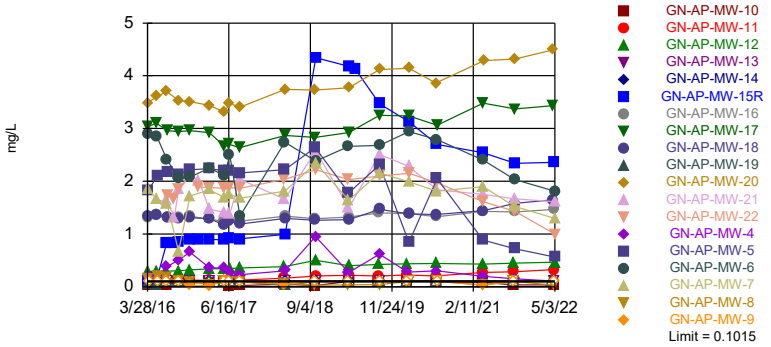
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-AP-MW-20	0.181	n/a	4/20/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-21	0.181	n/a	5/3/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-22	0.181	n/a	5/3/2022	0.0819J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-4	0.181	n/a	5/2/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-5	0.181	n/a	5/3/2022	0.0648J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-6	0.181	n/a	5/3/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-7	0.181	n/a	5/3/2022	0.125ND	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-8	0.181	n/a	5/2/2022	0.111J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-9	0.181	n/a	5/2/2022	0.122J	No	48	n/a	n/a	60.42	n/a	n/a	0.0007811	NP Inter (NDs) 1 of 2
pH (pH)	GN-AP-MW-10	7.99	6.07	5/2/2022	7.12	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-11	7.99	6.07	5/2/2022	7.16	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-12	7.99	6.07	5/3/2022	7.39	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-13	7.99	6.07	5/2/2022	7.46	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-14	7.99	6.07	4/27/2022	7.07	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-15R	7.99	6.07	5/2/2022	7.49	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	**GN-AP-MW-16**	**7.99**	**6.07**	**4/27/2022**	**8.17**	**Yes**	**48**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001562**	**NP Inter (normality) 1 of 2**
pH (pH)	**GN-AP-MW-17**	**7.99**	**6.07**	**4/20/2022**	**9.25**	**Yes**	**48**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001562**	**NP Inter (normality) 1 of 2**
pH (pH)	GN-AP-MW-18	7.99	6.07	4/26/2022	6.77	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-19	7.99	6.07	4/19/2022	7.63	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-20	7.99	6.07	4/20/2022	7.83	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-21	7.99	6.07	5/3/2022	7.48	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-22	7.99	6.07	5/3/2022	7.21	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-4	7.99	6.07	5/2/2022	6.68	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-5	7.99	6.07	5/3/2022	7.01	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-6	7.99	6.07	5/3/2022	7.63	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-7	7.99	6.07	5/3/2022	7.53	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-8	7.99	6.07	5/2/2022	7.44	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-9	7.99	6.07	5/2/2022	7.7	No	48	n/a	n/a	0	n/a	n/a	0.001562	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-10	14.35	n/a	5/2/2022	4.75	No	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	**GN-AP-MW-11**	**14.35**	**n/a**	**5/2/2022**	**58.3**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-12**	**14.35**	**n/a**	**5/3/2022**	**97**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	GN-AP-MW-13	14.35	n/a	5/2/2022	1ND	No	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	**GN-AP-MW-14**	**14.35**	**n/a**	**4/27/2022**	**118**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-15R**	**14.35**	**n/a**	**5/2/2022**	**224**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-16**	**14.35**	**n/a**	**4/27/2022**	**191**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-17**	**14.35**	**n/a**	**4/20/2022**	**444**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-18**	**14.35**	**n/a**	**4/26/2022**	**216**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-19**	**14.35**	**n/a**	**4/19/2022**	**27.6**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-20**	**14.35**	**n/a**	**4/20/2022**	**575**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-21**	**14.35**	**n/a**	**5/3/2022**	**131**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-22**	**14.35**	**n/a**	**5/3/2022**	**74.2**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	GN-AP-MW-4	14.35	n/a	5/2/2022	11.1	No	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	**GN-AP-MW-5**	**14.35**	**n/a**	**5/3/2022**	**34**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-6**	**14.35**	**n/a**	**5/3/2022**	**115**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	**GN-AP-MW-7**	**14.35**	**n/a**	**5/3/2022**	**107**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
Sulfate (mg/L)	GN-AP-MW-8	14.35	n/a	5/2/2022	3.02	No	46	1.18	0.6714	2.174	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	**GN-AP-MW-9**	**14.35**	**n/a**	**5/2/2022**	**17.9**	**Yes**	**46**	**1.18**	**0.6714**	**2.174**	**None**	**ln(x)**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	GN-AP-MW-10	185	n/a	5/2/2022	173	No	46	20304	6299	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	**GN-AP-MW-11**	**185**	**n/a**	**5/2/2022**	**234**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-12**	**185**	**n/a**	**5/3/2022**	**371**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-13**	**185**	**n/a**	**5/2/2022**	**201**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-14**	**185**	**n/a**	**4/27/2022**	**417**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-15R**	**185**	**n/a**	**5/2/2022**	**574**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-16**	**185**	**n/a**	**4/27/2022**	**369**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-17**	**185**	**n/a**	**4/20/2022**	**967**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-18**	**185**	**n/a**	**4/26/2022**	**596**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-19**	**185**	**n/a**	**4/19/2022**	**225**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-20**	**185**	**n/a**	**4/20/2022**	**946**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-21**	**185**	**n/a**	**5/3/2022**	**388**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-22**	**185**	**n/a**	**5/3/2022**	**308**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-4**	**185**	**n/a**	**5/2/2022**	**248**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-5**	**185**	**n/a**	**5/3/2022**	**239**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-6**	**185**	**n/a**	**5/3/2022**	**376**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-7**	**185**	**n/a**	**5/3/2022**	**329**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-8**	**185**	**n/a**	**5/2/2022**	**237**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**
TDS (mg/L)	**GN-AP-MW-9**	**185**	**n/a**	**5/2/2022**	**209**	**Yes**	**46**	**20304**	**6299**	**0**	**None**	**x^2**	**0.000396**	**Param Inter 1 of 2**

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-20...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 46 background values. 97.83% NDs. Annual per-constituent alpha = 0.03186. Individual comparison alpha = 0.0008518 (1 of 2). Comparing 19 points to limit.

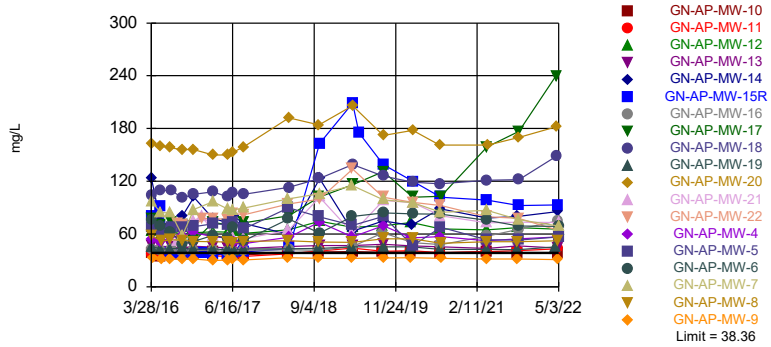
Constituent: Boron Analysis Run 7/1/2022 10:58 AM View: Appendix III
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Exceeds Limit: GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17,..

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube transformation): Mean=28562, Std. Dev.=12598, n=45. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.926. Kappa = 2.214 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

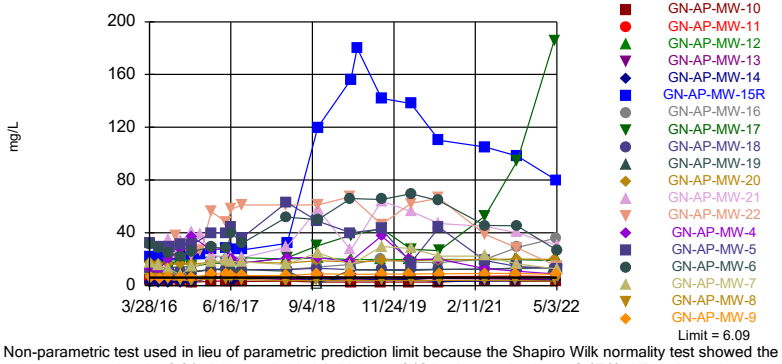
Constituent: Calcium Analysis Run 7/1/2022 10:58 AM View: Appendix III
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-19...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 46 background values. 2.174% NDs. Annual per-constituent alpha = 0.03186. Individual comparison alpha = 0.0008518 (1 of 2). Comparing 19 points to limit.

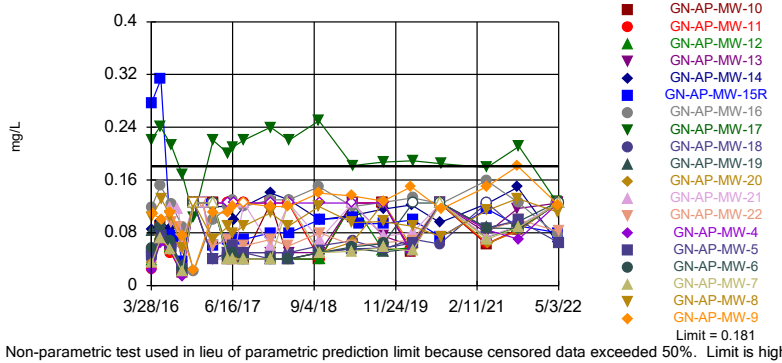
Constituent: Chloride Analysis Run 7/1/2022 10:58 AM View: Appendix III
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 48 background values. 60.42% NDs. Annual per-constituent alpha = 0.02926. Individual comparison alpha = 0.0007811 (1 of 2). Comparing 19 points to limit.

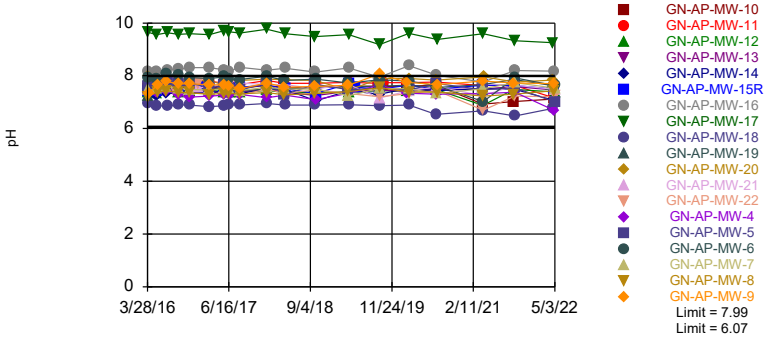
Constituent: Fluoride Analysis Run 7/1/2022 10:58 AM View: Appendix III
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Exceeds Limits: GN-AP-MW-16, GN-AP-MW-17

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 48 background values. Annual per-constituent alpha = 0.05852. Individual comparison alpha = 0.001562 (1 of 2). Comparing 19 points to limit.

Constituent: pH Analysis Run 7/1/2022 10:58 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

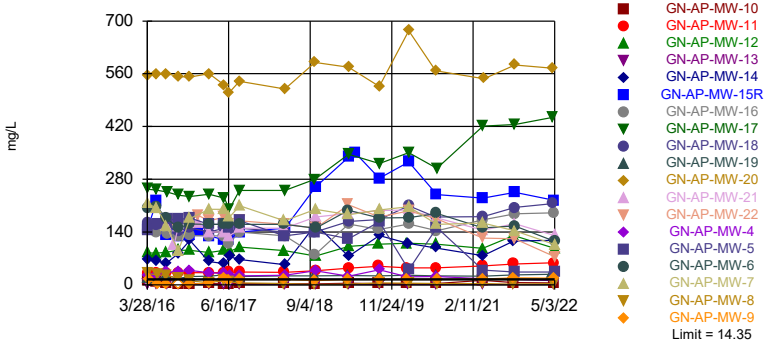
Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18...

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=1.18, Std. Dev.=0.6714, n=46, 2.174% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9529, critical = 0.927. Kappa = 2.21 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

Constituent: Sulfate Analysis Run 7/1/2022 10:58 AM View: Appendix III

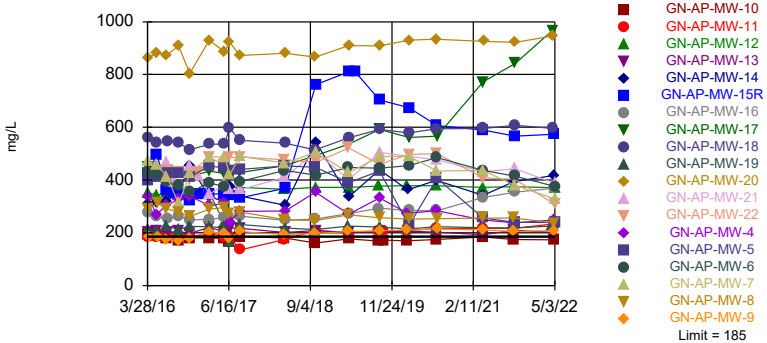
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Exceeds Limit: GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, GN-AP-MW-14, GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17,..

Prediction Limit

Interwell Parametric



Background Data Summary (based on square transformation): Mean=20304, Std. Dev.=6299, n=46. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.927. Kappa = 2.21 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

Constituent: TDS Analysis Run 7/1/2022 10:58 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-2 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-18	GN-AP-MW-17	GN-AP-MW-16
3/28/2016	<0.1015	<0.1015	<0.1015	0.0538 (J)	0.103				
3/29/2016						3.48	1.33	3.04	1.32
3/30/2016									
4/4/2016									
5/17/2016	<0.1015		<0.1015				1.37	3.1	1.35
5/18/2016		<0.1015		0.0252 (J)		3.61			
5/19/2016					0.169				
5/23/2016									
7/11/2016	<0.1015	<0.1015	<0.1015		0.829				
7/12/2016									
7/13/2016				<0.1015		3.7			
7/14/2016								2.96	1.32
7/18/2016							1.31		
8/22/2016					0.835				
9/12/2016									
9/13/2016			<0.1015	<0.1015				2.94	1.31
9/14/2016	<0.1015	<0.1015			0.838	3.53	1.28		
11/14/2016						3.51	1.31		1.34
11/15/2016			<0.1015		0.894				
11/16/2016	<0.1015	<0.1015		<0.1015				2.96	
1/3/2017					0.897				
2/27/2017			<0.1015	<0.1015	0.897				
2/28/2017						3.44	1.29	2.92	1.28
3/1/2017	<0.1015	<0.1015							
5/22/2017				<0.1015	0.892				
5/23/2017	<0.1015	<0.1015							
5/24/2017			<0.1015			3.31	1.17	2.66	1.24
6/19/2017	<0.1015	<0.1015				3.48	1.24	2.7	1.26
6/20/2017					0.91				
6/21/2017			<0.1015	<0.1015					
8/14/2017				<0.1015	0.906	3.4	1.19	2.64	1.24
8/15/2017	<0.1015	<0.1015	<0.1015						
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	<0.1015	<0.1015	<0.1015	0.0258 (J)	0.991	3.74	1.3	2.87	1.34
10/1/2018						3.73	1.26	2.83	1.29
10/2/2018				<0.1015					
10/3/2018	<0.1015	<0.1015							
10/4/2018									
10/5/2018			<0.1015		4.34				
4/1/2019		<0.1015		<0.1015					
4/2/2019	<0.1015								
4/3/2019			<0.1015		4.18	3.77	1.27	2.92	1.32
5/7/2019					4.13				
9/16/2019									1.4
9/17/2019	<0.1015		<0.1015					3.25	
9/18/2019		<0.1015		<0.1015	3.47	4.12	1.47		
2/17/2020									
2/18/2020				<0.1015					
2/19/2020	<0.1015		<0.1015						
2/25/2020					3.13	4.14	1.38		1.39

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-2 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-18	GN-AP-MW-17	GN-AP-MW-16
2/26/2020								3.24	
7/22/2020						3.86	1.37		
7/23/2020			<0.1015						
7/27/2020	<0.1015			<0.1015					
7/28/2020					2.7				1.33
7/29/2020								3.06	
4/5/2021	<0.1015			<0.1015					1.43
4/6/2021			<0.1015		2.54		1.44	3.48	
4/7/2021									
4/12/2021						4.29			
4/13/2021									
9/21/2021									
9/22/2021			<0.1015	<0.1015					
9/27/2021	<0.1015								
9/28/2021					2.34	4.32	1.58		1.42
9/29/2021								3.37	
4/19/2022				<0.1015					
4/20/2022						4.49		3.43	
4/26/2022							1.65		
4/27/2022			<0.1015						1.47
5/2/2022					2.36				
5/3/2022	<0.1015								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-10	GN-AP-MW-13	GN-AP-MW-7	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-4
3/28/2016									
3/29/2016	0.161								
3/30/2016		0.0291 (J)	<0.1015	1.85	2.89	1.82	0.287	0.112	0.193
4/4/2016									
5/17/2016		0.0466 (J)							0.201
5/18/2016			<0.1015				0.286	0.118	
5/19/2016				1.66	2.84				
5/23/2016	0.197					2.11			
7/11/2016									0.375
7/12/2016	0.17								
7/13/2016		0.0305 (J)		1.58	2.41		0.299	0.125	
7/14/2016			<0.1015			2.18			
7/18/2016									
8/22/2016									
9/12/2016			0.0762 (J)				0.302		
9/13/2016	0.114	<0.1015		0.674	2.06	2.13		0.108	
9/14/2016									0.507
11/14/2016			<0.1015				0.323	0.126	
11/15/2016	0.0853 (J)	<0.1015		1.72	2.08	2.22			
11/16/2016									0.655
1/3/2017									
2/27/2017									
2/28/2017	0.0452 (J)	<0.1015	<0.1015				0.336	0.12	0.364
3/1/2017				1.84	2.25	2.24			
5/22/2017		<0.1015						0.116	
5/23/2017				1.69	2.11	2.2			
5/24/2017	0.113		<0.1015				0.342		0.352
6/19/2017		0.0204 (J)						0.12	
6/20/2017	0.0853 (J)			1.75	2.5	2.2			
6/21/2017			<0.1015				0.342		0.263
8/14/2017		0.0242 (J)	<0.1015				0.359	0.124	
8/15/2017	0.0862 (J)			1.68	1.34	2.16			0.23
8/16/2017									
4/16/2018		0.0466 (J)					0.384	0.163	
4/17/2018	0.0649 (J)			1.81	2.74	2.22			
4/19/2018			<0.1015						0.305
10/1/2018	0.03 (J)					2.64			
10/2/2018		0.0228 (J)							
10/3/2018									0.952
10/4/2018				2.34	2.38		0.503	0.206	
10/5/2018			<0.1015						
4/1/2019	0.0345 (J)								
4/2/2019				1.64	2.66	1.78			0.271
4/3/2019		<0.1015	<0.1015				0.401	0.216	
5/7/2019									
9/16/2019		<0.1015					0.423	0.207	
9/17/2019	0.0439 (J)		<0.1015						0.619
9/18/2019				2.16	2.68	2.31			
2/17/2020		<0.1015						0.221	
2/18/2020							0.433		0.281
2/19/2020			<0.1015						
2/25/2020	<0.1015								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-10	GN-AP-MW-13	GN-AP-MW-7	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-4
2/26/2020				1.99	2.94	0.84			
7/22/2020		<0.1015						0.205	
7/23/2020									
7/27/2020			<0.1015				0.444		0.3
7/28/2020				1.81	2.79	2.05			
7/29/2020	<0.1015								
4/5/2021		0.0854 (J)					0.427	0.271	0.2
4/6/2021	0.0327 (J)		<0.1015						
4/7/2021				1.9	2.4	0.885			
4/12/2021									
4/13/2021									
9/21/2021	<0.1015	0.0378 (J)						0.283	
9/22/2021			<0.1015				0.447		
9/27/2021				1.52	2.03	0.721			0.149
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	0.0313 (J)	0.0352 (J)	<0.1015					0.324	0.109
5/3/2022				1.3	1.81	0.562	0.465		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-42 (bg)
3/28/2016								
3/29/2016								
3/30/2016								
4/4/2016	<0.1015							
5/17/2016								
5/18/2016								
5/19/2016								
5/23/2016	<0.1015							
7/11/2016								
7/12/2016	<0.1015							
7/13/2016		1.63						
7/14/2016			1.73					
7/18/2016								
8/22/2016		1.32	1.66					
9/12/2016								
9/13/2016	<0.1015	1.85	1.85					
9/14/2016								
11/14/2016								
11/15/2016	0.0256 (J)	2.12	2.09					
11/16/2016								
1/3/2017		2.01	1.89					
2/27/2017								
2/28/2017	0.021 (J)							
3/1/2017		1.47	1.88					
5/22/2017								
5/23/2017		1.41	1.87					
5/24/2017	<0.1015							
6/19/2017								
6/20/2017	<0.1015	1.38	1.88					
6/21/2017								
8/14/2017								
8/15/2017		2.04	1.87					
8/16/2017	<0.1015 (U*)							
4/16/2018								
4/17/2018	0.0386 (J)	1.66	2.04					
4/19/2018								
10/1/2018	<0.1015							
10/2/2018								
10/3/2018								
10/4/2018		2.58	2.22					
10/5/2018								
4/1/2019	<0.1015							
4/2/2019		1.5	2.03					
4/3/2019								
5/7/2019								
9/16/2019								
9/17/2019	<0.1015							
9/18/2019		2.51	2.1					
2/17/2020	<0.1015							
2/18/2020								
2/19/2020								
2/25/2020								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-42 (bg)
2/26/2020		2.28	2.15					
7/22/2020								
7/23/2020								
7/27/2020								
7/28/2020		1.84	1.97					
7/29/2020	<0.1015							
4/5/2021	0.0314 (J)							
4/6/2021								
4/7/2021		1.75	1.61					
4/12/2021				<0.1015	<0.1015	<0.1015	0.0342 (J)	
4/13/2021								<0.1015
9/21/2021	<0.1015			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/22/2021								
9/27/2021		1.67	1.43					
9/28/2021								
9/29/2021								
4/19/2022				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	<0.1015							
5/3/2022		1.61	1					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-14	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-15R	GN-AP-MW-18	GN-AP-MW-17	GN-AP-MW-16	GN-AP-MW-20
3/28/2016	46	124	34.2	31.6	79.7				
3/29/2016						104	77.4	43.2	163
3/30/2016									
4/4/2016									
5/17/2016		74.6		29.6		110	70.3	41.4	
5/18/2016	42.9		32.6						160
5/19/2016					91.5				
5/23/2016									
7/11/2016		68.9	32.5	30	38.1				
7/12/2016									
7/13/2016	43.1								158
7/14/2016							73	41.9	
7/18/2016						109			
8/22/2016					37.3				
9/12/2016									
9/13/2016	44.1	80.3					70.7	39.6	
9/14/2016			32.1	30.6	36.5	101			156
11/14/2016						105		41	156
11/15/2016		102			36.8				
11/16/2016	42.7		33.4	30.4			51.7		
1/3/2017					38				
2/27/2017	43.1	77.9			36.8				
2/28/2017						108	73.1	41.8	150
3/1/2017			33.3	<0.5 (o)					
5/22/2017	41.9				36.9				
5/23/2017			32.7	30.1					
5/24/2017		72.9				102	70.6	39.8	150
6/19/2017			32.6	29.9		107	67.7	40.2	153
6/20/2017					36.9				
6/21/2017	41.8	80							
8/14/2017	43				39.5	105	72.8	41.3	159
8/15/2017		72.1	31.5	28.1					
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	43.2	59.6	34.2	31.2	43.4	113	80.8	42.3	192
10/1/2018						123	102	41.5	184
10/2/2018	43.8								
10/3/2018			38.6	32.3					
10/4/2018									
10/5/2018		123			163				
4/1/2019	45.6		35.8						
4/2/2019				31.6					
4/3/2019		63.1			209	139	116	45.7	206
5/7/2019					175				
9/16/2019								61.3	
9/17/2019		74.9		31.7			131		
9/18/2019	45.6		35		139	126			172
2/17/2020									
2/18/2020	45.5								
2/19/2020		69.9		32.3					
2/25/2020					120	119		50	178

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-14	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-15R	GN-AP-MW-18	GN-AP-MW-17	GN-AP-MW-16	GN-AP-MW-20
2/26/2020							102		
7/22/2020						117			161
7/23/2020		88.6							
7/27/2020	42.6			31					
7/28/2020					102			48.1	
7/29/2020							103		
4/5/2021	42.6			30.6				57.6	
4/6/2021		78.2			98.6	121	159		
4/7/2021									
4/12/2021									161
4/13/2021									
9/21/2021									
9/22/2021	42.1	80							
9/27/2021				30.7					
9/28/2021					92.5	122		65.3	170
9/29/2021							177		
4/19/2022	45.6								
4/20/2022							240		182
4/26/2022						149			
4/27/2022		85.3						74.9	
5/2/2022					93.2				
5/3/2022				29.9					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-4	GN-AP-MW-13	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-7	GN-AP-MW-10
3/28/2016									
3/29/2016	58.2								
3/30/2016		63.4	75.7	53.6	46.6	68.3	36.4	96.4	38.2
4/4/2016									
5/17/2016				50.5					33.9
5/18/2016		57.5			46.1		34.7		
5/19/2016			69.7					84.5	
5/23/2016	52.1					63.1			
7/11/2016				56.5					
7/12/2016	53.6								
7/13/2016		62.9	62.7				36.4	84	36.7
7/14/2016					45.6	67.7			
7/18/2016									
8/22/2016									
9/12/2016		60.1			44.1				
9/13/2016	53		48.3			67.8	35.6	58.2	38.1
9/14/2016				58					
11/14/2016		61.4			46		36.2		
11/15/2016	51.5		51.8			68.4		87.9	38
11/16/2016				61.8					
1/3/2017									
2/27/2017									
2/28/2017	51.4	62.6		56.8	45		35.4		39.4
3/1/2017			58.4			71.8		96.8	
5/22/2017							34.4		37.4
5/23/2017			54.8			70.6		88	
5/24/2017	50.8	62.3		55.5	44.3				
6/19/2017							34.8		37.4
6/20/2017	49.8		67.9			73.8		87.5	
6/21/2017		63		51	44.7				
8/14/2017		60.6			43.5		34.6		36.4
8/15/2017	51.6		52.5	48.9		65.7		89.4	
8/16/2017									
4/16/2018		64.6					37.4		38.7
4/17/2018	52.2		77.1			90		100	
4/19/2018				56.5	45.8				
10/1/2018	50.8					79.6			
10/2/2018									39.7
10/3/2018				73.5					
10/4/2018		74.5	61.2				40.8	106	
10/5/2018					46.8				
4/1/2019	50.5								
4/2/2019			80.1	56.9		69.8		115	
4/3/2019		67.8			46.9		44.1		40
5/7/2019									
9/16/2019		69.5					40.2		39.1
9/17/2019	54.5			69.3	48.3				
9/18/2019			83.9			79.9		99.1	
2/17/2020							41		39.7
2/18/2020		73.1		55.8					
2/19/2020					46.7				
2/25/2020	54.7								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-4	GN-AP-MW-13	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-7	GN-AP-MW-10
2/26/2020			83.1			46.8		95.8	
7/22/2020							39		38.5
7/23/2020									
7/27/2020		65.7		57	45.5				
7/28/2020			82.5			67.8		84.9	
7/29/2020	49.4								
4/5/2021		64.8		52.2			40.1		40
4/6/2021	51.1				43.8				
4/7/2021			75.5			53.3		86.8	
4/12/2021									
4/13/2021									
9/21/2021	51.4						40.9		38.4
9/22/2021		67.3			46.6				
9/27/2021			69.2	54.4		53.1		76.2	
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	52.4			56.8	44.1		43.4		37.8
5/3/2022		65.3	68.8			56.6		69	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-41 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-42 (bg)
3/28/2016								
3/29/2016								
3/30/2016								
4/4/2016	32.3							
5/17/2016								
5/18/2016								
5/19/2016								
5/23/2016	31.3							
7/11/2016								
7/12/2016	31.6							
7/13/2016		66.6						
7/14/2016			61.5					
7/18/2016								
8/22/2016		52.8	71.3					
9/12/2016								
9/13/2016	31.2	68	70.3					
9/14/2016								
11/14/2016								
11/15/2016	31.5	75.2	69					
11/16/2016								
1/3/2017		80.9	77.4					
2/27/2017								
2/28/2017	29.7							
3/1/2017		58	77.4					
5/22/2017								
5/23/2017		56.3	76.6					
5/24/2017	30.4							
6/19/2017								
6/20/2017	30.8	56.8	83.6					
6/21/2017								
8/14/2017								
8/15/2017		54.5	81.8					
8/16/2017	30.5							
4/16/2018								
4/17/2018	32.9	64.5	94.1					
4/19/2018								
10/1/2018	32.4							
10/2/2018								
10/3/2018								
10/4/2018		102	99.5					
10/5/2018								
4/1/2019	32.3							
4/2/2019		61.1	134					
4/3/2019								
5/7/2019								
9/16/2019								
9/17/2019	32.7							
9/18/2019		98.3	102					
2/17/2020	33.2							
2/18/2020								
2/19/2020								
2/25/2020								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-41 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-42 (bg)
2/26/2020		95.5	95.9					
7/22/2020								
7/23/2020								
7/27/2020								
7/28/2020		80.8	92.3					
7/29/2020	32.4							
4/5/2021	31.7							
4/6/2021								
4/7/2021		72.7	79.7					
4/12/2021				26.6	35	23.2	22.9	
4/13/2021								11.7
9/21/2021	31.5			31.7	36.1	22.3	21.6	15.4
9/22/2021								
9/27/2021		73.4	77.7					
9/28/2021								
9/29/2021								
4/19/2022				29.4	36.4	23.3	21.6	11
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	30.9							
5/3/2022		73	64					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-2 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-18	GN-AP-MW-17	GN-AP-MW-16
3/28/2016	2.48	1.73	2.11	9.86	21.9				
3/29/2016						17.2	11.1	14.7	10.8
3/30/2016									
4/4/2016									
5/17/2016	1.9		2.38				10.3	13.8	10
5/18/2016		1.4		9.4		16.2			
5/19/2016					20.9				
5/23/2016									
7/11/2016	1.93	1.73	2.42		23				
7/12/2016									
7/13/2016				10.3		16.2			
7/14/2016								13.8	10.1
7/18/2016							10.3		
8/22/2016					23.3				
9/12/2016									
9/13/2016			2.34	9.68				14.1	10.4
9/14/2016	1.77	2.24			23.6	16.2	10.3		
11/14/2016						16.1	10.3		10.4
11/15/2016			2.55		23.8				
11/16/2016	1.98	3.57		10.2				14.2	
1/3/2017					24.1				
2/27/2017			5.8	12	27				
2/28/2017						18	12	17	12
3/1/2017	2.3	3.4							
5/22/2017				12	28				
5/23/2017	2.2	2.4							
5/24/2017			5.9			18	13	17	12
6/19/2017	1.7 (J)	1.9 (J)				18	12	16	11
6/20/2017					27				
6/21/2017			3.6	12					
8/14/2017				12	27	18	12	17	12
8/15/2017	2.1	5.4	4.9						
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	1.7 (J)	1.8 (J)	6.5	11	32	17	12	21	12
10/1/2018						19	13	30	14
10/2/2018				<2					
10/3/2018	1.7 (J)	<2							
10/4/2018									
10/5/2018			3.5		120				
4/1/2019		1.36		11.9					
4/2/2019	1.65								
4/3/2019			5.72		156	17.9	12.1	38	15.9
5/7/2019					180				
9/16/2019									20.4
9/17/2019	1.93		4.16					43.2	
9/18/2019		1.53		11.6	142	18.7	12.2		
2/17/2020									
2/18/2020				11.4					
2/19/2020	1.81		4.9						
2/25/2020					138	19	12.2		17.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-2 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-18	GN-AP-MW-17	GN-AP-MW-16
2/26/2020								27.7	
7/22/2020						19.3	12.3		
7/23/2020			3.1						
7/27/2020	1.83			12.1					
7/28/2020					110				17.4
7/29/2020								26.5	
4/5/2021	1.91			12.6					19.8
4/6/2021			3.37		105		12.4	52.8	
4/7/2021									
4/12/2021						19.8			
4/13/2021									
9/21/2021									
9/22/2021			3.5	12.8					
9/27/2021	1.9								
9/28/2021					98.3	20	13.2		28.9
9/29/2021								94.3	
4/19/2022				13.7					
4/20/2022						19.9		186	
4/26/2022							13.5		
4/27/2022			4.1						35.8
5/2/2022					79.9				
5/3/2022	1.67								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-10	GN-AP-MW-13	GN-AP-MW-7	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-4
3/28/2016									
3/29/2016	5.14								
3/30/2016		4.59	4.69	16.9	30.8	31.9	21.4	6.36	12.9
4/4/2016									
5/17/2016		3.94							12
5/18/2016			4.35				19.6	5.93	
5/19/2016				14.9	28.7				
5/23/2016	5.03					29.4			
7/11/2016									20.3
7/12/2016	4.66								
7/13/2016		3.32		12.6	24.8		19.6	5.93	
7/14/2016			4.33			29.5			
7/18/2016									
8/22/2016									
9/12/2016			4.4				19.7		
9/13/2016	3.98	2.91		8.09	21.7	30.8		5.92	
9/14/2016									27.3
11/14/2016			4.76				19.7	5.95	
11/15/2016	3.71	2.75		14.3	25.9	30.7			
11/16/2016									37.1
1/3/2017									
2/27/2017									
2/28/2017	5.2	3.2	6.1				22	6.7	27
3/1/2017				18	29	40			
5/22/2017		3.7						7.1	
5/23/2017				19	28	40			
5/24/2017	5.4		5.4				22		28
6/19/2017		3.7						6.2	
6/20/2017	5			18	40	44			
6/21/2017			5.2				21		20
8/14/2017		3.1	5.6				21	6.7	
8/15/2017	4.6			18	32	36			17
8/16/2017									
4/16/2018		3.3					20	6.2	
4/17/2018	3.6			16	52	63			
4/19/2018			4.6						21
10/1/2018	3.9					49			
10/2/2018		2.6							
10/3/2018									21
10/4/2018				25	50		21	6.9	
10/5/2018			5.1						
4/1/2019	3.9								
4/2/2019				15.7	66	39.9			18.3
4/3/2019		2.7	4.85				19.7	6.35	
5/7/2019									
9/16/2019		2.54					19.8	6.49	
9/17/2019	3.96		4.83						37.5
9/18/2019				29.5	65.3	42.8			
2/17/2020		2.61						6.66	
2/18/2020							19.6		19.6
2/19/2020			5.02						
2/25/2020	3.81								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-10	GN-AP-MW-13	GN-AP-MW-7	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-4
2/26/2020				28	69.7	17.5			
7/22/2020		2.53						6.75	
7/23/2020									
7/27/2020			5.2				19.8		20.2
7/28/2020				22.3	64.2	44.2			
7/29/2020	3.77								
4/5/2021		3.88					19.7	7.09	12.8
4/6/2021	3.9		5.06						
4/7/2021				22.4	45.5	18.8			
4/12/2021									
4/13/2021									
9/21/2021	3.8	3.39						7.14	
9/22/2021			4.8				19.7		
9/27/2021				16.5	45.3	14.6			11
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	3.33	3.2	4.32					6.86	8.75
5/3/2022				12.6	26.9	12.8	18.9		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-42 (bg)
3/28/2016								
3/29/2016								
3/30/2016								
4/4/2016	5.89							
5/17/2016								
5/18/2016								
5/19/2016								
5/23/2016	5.2							
7/11/2016								
7/12/2016	5.71							
7/13/2016		34.8						
7/14/2016			26.9					
7/18/2016								
8/22/2016		25.1	37.6					
9/12/2016								
9/13/2016	5.88	34.1	30					
9/14/2016								
11/14/2016								
11/15/2016	6.04	40.1	22.7					
11/16/2016								
1/3/2017		38.5	26.5					
2/27/2017								
2/28/2017	8.6							
3/1/2017		23	56					
5/22/2017								
5/23/2017		21	48					
5/24/2017	9.3							
6/19/2017								
6/20/2017	7.8	22	58					
6/21/2017								
8/14/2017								
8/15/2017		21	61					
8/16/2017	7.6							
4/16/2018								
4/17/2018	7.5	29	61					
4/19/2018								
10/1/2018	8.9							
10/2/2018								
10/3/2018								
10/4/2018		58	61					
10/5/2018								
4/1/2019	8.42							
4/2/2019		27	67.3					
4/3/2019								
5/7/2019								
9/16/2019								
9/17/2019	8.59							
9/18/2019		64	46.3					
2/17/2020	8.74							
2/18/2020								
2/19/2020								
2/25/2020								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-42 (bg)
2/26/2020		56.3	62.2					
7/22/2020								
7/23/2020								
7/27/2020								
7/28/2020		47	66.1					
7/29/2020	8.93							
4/5/2021	9.25							
4/6/2021								
4/7/2021		44.8	38.9					
4/12/2021				5.88	2.91	3.05	4.13	
4/13/2021								4.18
9/21/2021	9.17			6.09	2.94	2.78	2.19	3.99
9/22/2021								
9/27/2021		40.1	28.6					
9/28/2021								
9/29/2021								
4/19/2022				5.24	2.22	2.71	2.03	3.8
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	8.5							
5/3/2022		30.6	14.8					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-17	GN-AP-MW-16	GN-AP-MW-20	GN-AP-MW-18
3/28/2016	0.028 (J)	0.032 (J)	0.084 (J)	0.276 (J)	0.083 (J)				
3/29/2016						0.221 (J)	0.118 (J)	0.035 (J)	0.04 (J)
3/30/2016									
4/4/2016									
5/17/2016		0.068 (J)	0.098 (J)			0.241 (J)	0.151 (J)		0.079 (J)
5/18/2016	0.064 (J)				0.092 (J)			0.076 (J)	
5/19/2016				0.313					
5/23/2016									
7/11/2016	0.054 (J)	0.057 (J)	0.086 (J)	0.076 (J)					
7/12/2016									
7/13/2016					0.064 (J)			0.053 (J)	
7/14/2016						0.213 (J)	0.124 (J)		
7/18/2016									0.058 (J)
8/22/2016				0.067 (J)					
9/12/2016									
9/13/2016			0.061 (J)		0.03 (J)	0.168 (J)	0.089 (J)		
9/14/2016	0.016 (J)	0.017 (J)		0.036 (J)				0.022 (J)	0.025 (J)
11/14/2016							0.022 (J)	<0.125	<0.125
11/15/2016			<0.125	<0.125					
11/16/2016	<0.125	<0.125			<0.125	0.103 (J)			
1/3/2017				<0.125					
2/27/2017			0.12	0.06 (J)	<0.125				
2/28/2017						0.22	0.1	<0.125	0.04 (J)
3/1/2017	<0.125	<0.125							
5/22/2017				0.07 (J)	0.04 (J)				
5/23/2017	<0.125	<0.125							
5/24/2017			0.12			0.2	0.12	0.04 (J)	0.05 (J)
6/19/2017	<0.125	<0.125				0.21	0.13	0.04 (J)	0.05 (J)
6/20/2017				0.07 (J)					
6/21/2017			0.1		0.05 (J)				
8/14/2017				0.07 (J)	0.04 (J)	0.22	0.12	0.04 (J)	0.05 (J)
8/15/2017	<0.125	<0.125	0.12						
8/16/2017									
1/9/2018			0.14	0.08 (J)		0.24	0.13	0.04 (J)	0.05 (J)
1/10/2018	<0.125	<0.125			0.04 (J)				
4/16/2018									
4/17/2018									
4/19/2018	<0.125	<0.125	0.13	0.08 (J)	0.04 (J)	0.22	0.13	0.04 (J)	0.05 (J)
10/1/2018						0.25	0.15	0.05 (J)	0.06 (J)
10/2/2018					0.05 (J)				
10/3/2018	0.04 (J)	<0.125							
10/4/2018									
10/5/2018			0.1	0.1					
4/1/2019	<0.125				0.0563 (J)				
4/2/2019		<0.125							
4/3/2019			0.106	0.104		0.182	0.12	0.0657 (J)	0.0678 (J)
5/7/2019				0.0937 (J)					
9/16/2019							0.126		
9/17/2019		<0.125	0.116			0.187			
9/18/2019	<0.125			0.094 (J)	0.0507 (J)			<0.125	0.0551 (J)
2/17/2020									
2/18/2020					0.0557 (J)				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-17	GN-AP-MW-16	GN-AP-MW-20	GN-AP-MW-18
2/19/2020		<0.125	0.122						
2/25/2020				0.0995 (J)			0.133	0.0566 (J)	0.0701 (J)
2/26/2020						0.189			
7/22/2020								<0.125	0.0628 (J)
7/23/2020			0.0954 (J)						
7/27/2020		<0.125			<0.125				
7/28/2020				0.0738 (J)			0.124		
7/29/2020						0.185			
4/5/2021		0.0801 (J)			0.088 (J)		0.159		
4/6/2021			0.124	0.116		0.179			<0.125
4/7/2021									
4/12/2021								0.0644 (J)	
4/13/2021									
9/21/2021									
9/22/2021			0.149		0.0965 (J)				
9/27/2021		0.0805 (J)							
9/28/2021				0.09 (J)			0.125	0.0828 (J)	0.0839 (J)
9/29/2021						0.211			
4/19/2022					<0.125				
4/20/2022						0.128		<0.125	
4/26/2022									<0.125
4/27/2022			0.0652 (J)				0.0766 (J)		
5/2/2022				0.08 (J)					
5/3/2022		<0.125							

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-5	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-10
3/28/2016									
3/29/2016	0.104 (J)								
3/30/2016		0.056 (J)	0.034 (J)	0.048 (J)	0.042 (J)	0.023 (J)	0.039 (J)	0.026 (J)	0.052 (J)
4/4/2016									
5/17/2016						0.065 (J)			0.088 (J)
5/18/2016					0.08 (J)		0.078 (J)	0.068 (J)	
5/19/2016		0.09 (J)	0.072 (J)						
5/23/2016	0.131 (J)			0.076 (J)					
7/11/2016						0.054 (J)			
7/12/2016	0.105 (J)								
7/13/2016		0.067 (J)	0.054 (J)				0.058 (J)	0.049 (J)	0.06 (J)
7/14/2016				0.058 (J)	0.06 (J)				
7/18/2016									
8/22/2016									
9/12/2016					0.028 (J)		0.023 (J)		
9/13/2016	0.057 (J)	0.026 (J)	0.021 (J)	0.025 (J)				0.018 (J)	0.019 (J)
9/14/2016						0.014 (J)			
11/14/2016					<0.125		<0.125	<0.125	
11/15/2016	<0.125	<0.125	<0.125	<0.125					<0.125
11/16/2016						<0.125			
1/3/2017									
2/27/2017									
2/28/2017	0.07 (J)				0.04 (J)	<0.125	<0.125	<0.125	<0.125
3/1/2017		<0.125	<0.125	0.04 (J)					
5/22/2017								<0.125	0.04 (J)
5/23/2017		0.04 (J)	0.04 (J)	0.05 (J)					
5/24/2017	0.09 (J)				0.05 (J)	<0.125	0.05 (J)		
6/19/2017								<0.125	0.04 (J)
6/20/2017	0.08 (J)	0.05 (J)	0.04 (J)	0.06 (J)					
6/21/2017					0.05 (J)	<0.125	0.05 (J)		
8/14/2017					0.05 (J)		0.04 (J)	<0.125	0.04 (J)
8/15/2017	0.09 (J)	0.04 (J)	0.04 (J)	0.05 (J)		<0.125			
8/16/2017									
1/9/2018				0.04 (J)	0.05 (J)		0.04 (J)	<0.125	
1/10/2018	0.11	0.04 (J)	0.04 (J)			<0.125			<0.125
4/16/2018							0.04 (J)	<0.125	0.04 (J)
4/17/2018	0.09 (J)	0.04 (J)	<0.125	0.04 (J)					
4/19/2018					0.05 (J)	<0.125			
10/1/2018	0.12			0.05 (J)					
10/2/2018									0.04 (J)
10/3/2018						<0.125			
10/4/2018		0.05 (J)	0.05 (J)				0.04 (J)	0.04 (J)	
10/5/2018					0.05 (J)				
4/1/2019	0.0956 (J)								
4/2/2019		0.0586 (J)	0.052 (J)	0.0555 (J)		<0.125			
4/3/2019					<0.125		<0.125	<0.125	<0.125
5/7/2019									
9/16/2019							0.0538 (J)	<0.125	<0.125
9/17/2019	0.0971 (J)				0.0753 (J)	<0.125			
9/18/2019		0.0634 (J)	0.0578 (J)	0.0568 (J)					
2/17/2020								0.0546 (J)	0.051 (J)
2/18/2020						0.0506 (J)	0.0571 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-5	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-10
2/19/2020					0.06 (J)				
2/25/2020	0.0898 (J)								
2/26/2020		<0.125	0.0523 (J)	0.0647 (J)					
7/22/2020								<0.125	<0.125
7/23/2020									
7/27/2020					<0.125	<0.125	<0.125		
7/28/2020		<0.125	<0.125	<0.125					
7/29/2020	0.0742 (J)								
4/5/2021						0.0842 (J)	0.0733 (J)	0.0634 (J)	0.0627 (J)
4/6/2021	0.114				0.0794 (J)				
4/7/2021		0.0872 (J)	0.0705 (J)	0.0874 (J)					
4/12/2021									
4/13/2021									
9/21/2021	0.132							0.0847 (J)	0.0847 (J)
9/22/2021					0.117		0.0887 (J)		
9/27/2021		0.0862 (J)	0.0882 (J)	0.0989 (J)		0.0702 (J)			
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	0.111 (J)				<0.125	<0.125		<0.125	<0.125
5/3/2022		<0.125	<0.125	0.0648 (J)			<0.125		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/28/2016								
3/29/2016								
3/30/2016								
4/4/2016	0.109 (J)							
5/17/2016								
5/18/2016								
5/19/2016								
5/23/2016	0.1 (J)							
7/11/2016								
7/12/2016	0.11 (J)							
7/13/2016		0.118 (J)						
7/14/2016			0.096 (J)					
7/18/2016								
8/22/2016		0.117 (J)	0.088 (J)					
9/12/2016								
9/13/2016	0.075 (J)	0.068 (J)	0.054 (J)					
9/14/2016								
11/14/2016								
11/15/2016	0.023 (J)	<0.125	<0.125					
11/16/2016								
1/3/2017		<0.125	<0.125					
2/27/2017								
2/28/2017	0.11							
3/1/2017		0.04 (J)	0.06 (J)					
5/22/2017								
5/23/2017		0.04 (J)	0.07 (J)					
5/24/2017	0.11							
6/19/2017								
6/20/2017	0.12	0.04 (J)	0.06 (J)					
6/21/2017								
8/14/2017								
8/15/2017		<0.125	0.06 (J)					
8/16/2017	<0.125 (U*)							
1/9/2018			0.07 (J)					
1/10/2018	0.12	0.06 (J)						
4/16/2018								
4/17/2018	0.12	<0.125	0.06 (J)					
4/19/2018								
10/1/2018	0.14							
10/2/2018								
10/3/2018								
10/4/2018		0.07 (J)	0.08 (J)					
10/5/2018								
4/1/2019	0.136							
4/2/2019		<0.125	0.0613 (J)					
4/3/2019								
5/7/2019								
9/16/2019								
9/17/2019	0.128							
9/18/2019		0.0749 (J)	0.065 (J)					
2/17/2020	0.15							
2/18/2020								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
2/19/2020								
2/25/2020								
2/26/2020		0.0804 (J)	0.0687 (J)					
7/22/2020								
7/23/2020								
7/27/2020								
7/28/2020		<0.125	<0.125					
7/29/2020	0.116							
4/5/2021	0.15							
4/6/2021								
4/7/2021		0.0739 (J)	0.0834 (J)					
4/12/2021				0.163	0.0651 (J)	<0.125	<0.125	
4/13/2021								<0.125
9/21/2021	0.181			0.181	0.083 (J)	0.113	0.0969 (J)	0.0656 (J)
9/22/2021								
9/27/2021		0.0914 (J)	0.1					
9/28/2021								
9/29/2021								
4/19/2022				0.107 (J)	<0.125	<0.125	<0.125	<0.125
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	0.122 (J)							
5/3/2022		<0.125	0.0819 (J)					

Prediction Limit

Constituent: pH (pH) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-3 (bg)	GN-AP-MW-15R	GN-AP-MW-2 (bg)	GN-AP-MW-19	GN-AP-MW-17	GN-AP-MW-8	GN-AP-MW-20	GN-AP-MW-16
3/28/2016	7.34	7.82	7.43	7.79	7.24				
3/29/2016						9.66	7.2	7.96	8.15
3/30/2016									
4/4/2016									
5/17/2016	7.22	7.79				9.56			8.18
5/18/2016				7.73	7.5			7.88	
5/19/2016			7.43						
5/23/2016							7.39		
7/11/2016	7.32	7.96	7.58	7.99					
7/12/2016							7.43		
7/13/2016					7.63			7.92	
7/14/2016						9.63			8.23
7/18/2016									
8/22/2016			7.56						
9/12/2016									
9/13/2016	7.35				7.53	9.57	7.38		8.25
9/14/2016		7.79	7.52	7.75				7.85	
11/14/2016								7.84	8.31
11/15/2016	7.32		7.57				7.35		
11/16/2016		7.72		7.64	7.55	9.59			
1/3/2017			7.62						
2/27/2017	7.38		7.52		7.53				
2/28/2017						9.56	7.3	7.81	8.31
3/1/2017		7.68		7.65					
5/22/2017			7.52		7.5				
5/23/2017		7.69		7.67					
5/24/2017	7.41					9.71	7.33	7.65	8.22
6/19/2017		7.67		7.65		9.67		7.79	8.18
6/20/2017			7.46				7.33		
6/21/2017	7.26				7.51				
8/14/2017			7.57		7.43	9.62		7.82	8.32
8/15/2017	7.33	7.73		7.69			7.31		
8/16/2017									
1/9/2018	7.5		7.64			9.77		7.87	8.21
1/10/2018		7.84		7.8	7.5		7.36		
4/16/2018									
4/17/2018							7.28		
4/19/2018	7.48	7.69	7.51	7.54	7.5	9.59		7.85	8.28
10/1/2018						9.48	7.33	7.82	8.14
10/2/2018					7.57				
10/3/2018		7.7		7.68					
10/4/2018									
10/5/2018	7.05		7.33						
4/1/2019				7.76	7.58		7.4		
4/2/2019		7.8							
4/3/2019	7.43		7.7			9.56		7.45	8.3
5/7/2019			7.57						
9/16/2019									7.94
9/17/2019	7.3	7.8				9.18	7.55		
9/18/2019			7.5	7.69	7.6			7.9	
10/8/2019									
2/17/2020									

Prediction Limit

Constituent: pH (pH) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-3 (bg)	GN-AP-MW-15R	GN-AP-MW-2 (bg)	GN-AP-MW-19	GN-AP-MW-17	GN-AP-MW-8	GN-AP-MW-20	GN-AP-MW-16
2/18/2020					7.64				
2/19/2020	7.52	7.8							
2/25/2020			7.64				7.39	7.9	8.38
2/26/2020						9.61			
7/22/2020								7.84	
7/23/2020	7.44								
7/27/2020		7.69			7.56				
7/28/2020			7.5						8.02
7/29/2020						9.38	7.39		
4/5/2021		7.67			7.66				7.76
4/6/2021	7.51		7.64			9.59	7.23		
4/7/2021									
4/12/2021								7.96	
4/13/2021									
9/21/2021							7.3		
9/22/2021	7.5				7.86				
9/27/2021		7.81							
9/28/2021			7.63					7.76	8.2
9/29/2021						9.33			
4/19/2022					7.63				
4/20/2022						9.25		7.83	
4/26/2022									
4/27/2022	7.07								8.17
5/2/2022			7.49				7.44		
5/3/2022		7.72							

Prediction Limit

Constituent: pH (pH) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-18	GN-AP-MW-13	GN-AP-MW-7	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-10	GN-AP-MW-4
3/28/2016									
3/29/2016	6.95								
3/30/2016		7.27	7.45	7.39	7.95	7.61	7.63	7.45	7.31
4/4/2016									
5/17/2016	6.87							7.68	7.35
5/18/2016		7.37		7.34			7.64		
5/19/2016			7.5		7.88				
5/23/2016						7.68			
7/11/2016									7.43
7/12/2016									
7/13/2016			7.58	7.52	8.07		7.84	7.71	
7/14/2016		7.51				7.79			
7/18/2016	6.85								
8/22/2016									
9/12/2016		7.39		7.39					
9/13/2016			7.53		8.04	7.69	7.69	7.53	
9/14/2016	6.9								7.26
11/14/2016	6.89	7.37		7.42			7.7		
11/15/2016			7.48		7.93	7.72		7.53	
11/16/2016									7.19
1/3/2017									
2/27/2017									
2/28/2017	6.83	7.32		7.46			7.79	7.58	7.23
3/1/2017			7.46		7.89	7.55			
5/22/2017							7.72	7.51	
5/23/2017			7.51		7.96	7.64			
5/24/2017	6.87	7.44		7.39					7.26
6/19/2017	6.89						7.73	7.53	
6/20/2017			7.52		7.87	7.5			
6/21/2017		7.39		7.36					7.26
8/14/2017	6.89	7.39		7.36			7.67	7.52	
8/15/2017			7.43		7.86	7.46			7.29
8/16/2017									
1/9/2018	6.95	7.5		7.45		7.71	7.82		
1/10/2018			7.57		7.98			7.64	7.17
4/16/2018				7.36			7.71	7.54	
4/17/2018			7.5		7.82	7.29			
4/19/2018	6.89	7.38							7.27
10/1/2018	6.89					7.68			
10/2/2018								7.54	
10/3/2018									7.09
10/4/2018			7.49	7.37	7.87		7.71		
10/5/2018		7.25							
4/1/2019									
4/2/2019			7.24		7.73	7.47			7.34
4/3/2019	6.9	7.41		7.37			7.75	7.6	
5/7/2019									
9/16/2019				7.44			7.71	7.6	
9/17/2019		7.45							7.65
9/18/2019	6.86		7.52		7.85	7.53			
10/8/2019							7.74	7.59	
2/17/2020							7.74	7.61	

Prediction Limit

Constituent: pH (pH) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-18	GN-AP-MW-13	GN-AP-MW-7	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-10	GN-AP-MW-4
2/18/2020				7.42					7.34
2/19/2020		7.42							
2/25/2020	6.89								
2/26/2020			7.51		7.8	7.47			
7/22/2020	6.54						7.76	7.64	
7/23/2020									
7/27/2020		7.48		7.47					7.3
7/28/2020			7.32		7.62	7.7			
7/29/2020									
4/5/2021				6.88			7.63	6.93	7.33
4/6/2021	6.67	7.5							
4/7/2021			7.51		7.02	7.47			
4/12/2021									
4/13/2021									
9/21/2021							7.64	7.02	
9/22/2021		7.59		7.48					
9/27/2021			7.74		7.92	7.55			7.37
9/28/2021	6.48								
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022	6.77								
4/27/2022									
5/2/2022		7.46					7.16	7.12	6.68
5/3/2022			7.53	7.39	7.63	7.01			

Prediction Limit

Constituent: pH (pH) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-38 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-42 (bg)
3/28/2016								
3/29/2016								
3/30/2016								
4/4/2016	7.32							
5/17/2016								
5/18/2016								
5/19/2016								
5/23/2016	7.66							
7/11/2016								
7/12/2016	7.77							
7/13/2016		7.83						
7/14/2016			7.74					
7/18/2016								
8/22/2016		7.86	7.55					
9/12/2016								
9/13/2016	7.7	7.75	7.63					
9/14/2016								
11/14/2016								
11/15/2016	7.69	7.66	7.74					
11/16/2016								
1/3/2017		7.57	7.69					
2/27/2017								
2/28/2017	7.66							
3/1/2017		7.53	7.47					
5/22/2017								
5/23/2017		7.78	7.5					
5/24/2017	7.64							
6/19/2017								
6/20/2017	7.62	7.82	7.37					
6/21/2017								
8/14/2017								
8/15/2017		7.73	7.26					
8/16/2017	7.51							
1/9/2018			7.49					
1/10/2018	7.72	7.67						
4/16/2018								
4/17/2018	7.57	7.66	7.33					
4/19/2018								
10/1/2018	7.59							
10/2/2018								
10/3/2018								
10/4/2018		7.51	7.47					
10/5/2018								
4/1/2019	7.64							
4/2/2019		7.67	7.33					
4/3/2019								
5/7/2019								
9/16/2019								
9/17/2019	8.07							
9/18/2019		7.15	7.21					
10/8/2019								
2/17/2020	7.75							

Prediction Limit

Constituent: pH (pH) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-38 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-42 (bg)
2/18/2020								
2/19/2020								
2/25/2020								
2/26/2020		7.43	7.33					
7/22/2020								
7/23/2020								
7/27/2020								
7/28/2020		7.58	7.43					
7/29/2020	7.66							
4/5/2021	7.8							
4/6/2021								
4/7/2021		7.24	6.7					
4/12/2021				7.99	7.18	7.77	7.09	
4/13/2021								6.14
9/21/2021	7.72			7.85	7.3	7.12	7.3	6.07
9/22/2021								
9/27/2021		7.64	7.23					
9/28/2021								
9/29/2021								
4/19/2022				7.91	6.8	7.68	6.85	6.31
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	7.7							
5/3/2022		7.48	7.21					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/1/2022 11:00 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-2 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-18	GN-AP-MW-17	GN-AP-MW-16
3/28/2016	7.57	2.09	66.6	16.8	147				
3/29/2016						556	163	254	146
3/30/2016									
4/4/2016									
5/17/2016	5.12		63.9				159	251	140
5/18/2016		1.92		14.9		559			
5/19/2016					224				
5/23/2016									
7/11/2016	4.63	3.41	57.6		133				
7/12/2016									
7/13/2016				24.2		560			
7/14/2016								246	135
7/18/2016							154		
8/22/2016					134				
9/12/2016									
9/13/2016			82.8	16.8				238	129
9/14/2016	3.19	4.94			130	553	143		
11/14/2016						551	151		131
11/15/2016			118		132				
11/16/2016	3.71	10.5		21.7				234	
1/3/2017					143				
2/27/2017			62 (J)	23	130				
2/28/2017						560	140	240	130
3/1/2017	3.4 (J)	5.1							
5/22/2017				26	120				
5/23/2017	2 (J)	2.3 (J)							
5/24/2017			56			530	150	230	130
6/19/2017	2.5 (J)	2.1 (J)				510	140	200	110
6/20/2017					120				
6/21/2017			75	20					
8/14/2017				22	140	540	150	250	140
8/15/2017	2.4 (J)	1.7 (J)	67						
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	1.9 (J)	<2	53	24	150	520	140	250	130
10/1/2018						590	140	280	80
10/2/2018				24					
10/3/2018	2.7 (J)	1.7 (J)							
10/4/2018									
10/5/2018			160		260				
4/1/2019		1.87		24.4					
4/2/2019	3.24								
4/3/2019			75.2		339	577	168	346	161
5/7/2019					351				
9/16/2019									147
9/17/2019	4.51		131					322	
9/18/2019		2.39		23.6	283	526	173		
2/17/2020									
2/18/2020				25.6					
2/19/2020	3.73		110						
2/25/2020					326	674	210		161

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-2 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-18	GN-AP-MW-17	GN-AP-MW-16
2/26/2020								351	
7/22/2020						568	180		
7/23/2020			97.9						
7/27/2020	4.11			23.7					
7/28/2020					239				143
7/29/2020								309	
4/5/2021	3.2			23.1					172
4/6/2021			77.5		230		181	421	
4/7/2021									
4/12/2021						547			
4/13/2021									
9/21/2021									
9/22/2021			116	25.9					
9/27/2021	2.76								
9/28/2021					245	583	205		188
9/29/2021								425	
4/19/2022				27.6					
4/20/2022						575		444	
4/26/2022							216		
4/27/2022			118						191
5/2/2022					224				
5/3/2022	2.16								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-10	GN-AP-MW-13	GN-AP-MW-7	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-4
3/28/2016									
3/29/2016	29.9								
3/30/2016		9.91	<2	215	204	146	85	32.2	24.9
4/4/2016									
5/17/2016		7.27							25.1
5/18/2016			0.492 (J)				83.8	30.8	
5/19/2016				204	206				
5/23/2016	26.5					160			
7/11/2016									33.2
7/12/2016	24.3								
7/13/2016		4.11		155	176		86.2	32.4	
7/14/2016			0.38 (J)			173			
7/18/2016									
8/22/2016									
9/12/2016			<2				91.8		
9/13/2016	17.8	2.86		89.8	151	173		30.9	
9/14/2016									35.5
11/14/2016			<2				91.2	32.1	
11/15/2016	10.1	2.16		176	161	177			
11/16/2016									38.5
1/3/2017									
2/27/2017									
2/28/2017	5.8	3.7 (J)	<2				86	32	32
3/1/2017				200	160	160			
5/22/2017		2.6 (J)						32	
5/23/2017				200	160	160			
5/24/2017	11		<2				92		30
6/19/2017		2.8 (J)						33	
6/20/2017	7.9			180	160	150			
6/21/2017			<2				88		25
8/14/2017		3.4 (J)	<2				100	34	
8/15/2017	5			210	160	170			24
8/16/2017									
4/16/2018		3.4 (J)					91	33	
4/17/2018	2.9 (J)			170	160	130			
4/19/2018			<2						25
10/1/2018	<2					140			
10/2/2018		2.6 (J)							
10/3/2018									37
10/4/2018				200	150		76	37	
10/5/2018			<2						
4/1/2019	1.8								
4/2/2019				186	198	122			22.4
4/3/2019		3.85	0.925 (J)				102	44.2	
5/7/2019									
9/16/2019		3.39					108	49.2	
9/17/2019	4.62		<2						39.8
9/18/2019				199	177	167			
2/17/2020		3.56						45.2	
2/18/2020							110		21.4
2/19/2020			0.571 (J)						
2/25/2020	3.89								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-10	GN-AP-MW-13	GN-AP-MW-7	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-4
2/26/2020				207	178	39.8			
7/22/2020		3.65						45.3	
7/23/2020									
7/27/2020			<2				108		21.7
7/28/2020				160	189	152			
7/29/2020	3.25								
4/5/2021		11.4					96.8	50.1	15.6
4/6/2021	3.29		<2						
4/7/2021				164	151	38.7			
4/12/2021									
4/13/2021									
9/21/2021	1.95	5.56						55.4	
9/22/2021			0.521 (J)				131		
9/27/2021				143	156	33.5			14.3
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	3.02	4.75	<2					58.3	11.1
5/3/2022				107	115	34	97		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-42 (bg)
3/28/2016								
3/29/2016								
3/30/2016								
4/4/2016	13.5							
5/17/2016								
5/18/2016								
5/19/2016								
5/23/2016	1.78							
7/11/2016								
7/12/2016	0.915 (J)							
7/13/2016		159						
7/14/2016			172					
7/18/2016								
8/22/2016		107	170					
9/12/2016								
9/13/2016	<2	155	171					
9/14/2016								
11/14/2016								
11/15/2016	0.96 (J)	172	173					
11/16/2016								
1/3/2017		163	183					
2/27/2017								
2/28/2017	5.5							
3/1/2017		140	170					
5/22/2017								
5/23/2017		140	180					
5/24/2017	18							
6/19/2017								
6/20/2017	13	130	160					
6/21/2017								
8/14/2017								
8/15/2017		150	170					
8/16/2017	14							
4/16/2018								
4/17/2018	14	150	160					
4/19/2018								
10/1/2018	11							
10/2/2018								
10/3/2018								
10/4/2018		180	150					
10/5/2018								
4/1/2019	14.3							
4/2/2019		189	212					
4/3/2019								
5/7/2019								
9/16/2019								
9/17/2019	13.9							
9/18/2019		197	180					
2/17/2020	14.7							
2/18/2020								
2/19/2020								
2/25/2020								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-42 (bg)
2/26/2020		199	196					
7/22/2020								
7/23/2020								
7/27/2020								
7/28/2020		177	175					
7/29/2020	14.7							
4/5/2021	15.1							
4/6/2021								
4/7/2021		145	124					
4/12/2021				12.6	14.6	2.99	7.23	
4/13/2021								4.92
9/21/2021	18.4			5.49	14.5	1.44	1.31	3.27
9/22/2021								
9/27/2021		162	122					
9/28/2021								
9/29/2021								
4/19/2022				2.72	11.4	1.37 (J)	0.934 (J)	2.25
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	17.9							
5/3/2022		131	74.2					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-3 (bg)	GN-AP-MW-15R	GN-AP-MW-2 (bg)	GN-AP-MW-19	GN-AP-MW-8	GN-AP-MW-16	GN-AP-MW-20	GN-AP-MW-17
3/28/2016	308	147	426	138	213				
3/29/2016						290	277	862	451
3/30/2016									
4/4/2016									
5/17/2016	314	140					261		432
5/18/2016				156	206			882	
5/19/2016			496						
5/23/2016						312			
7/11/2016	319	146	359	167					
7/12/2016						292			
7/13/2016					225			874	
7/14/2016							255		434
7/18/2016									
8/22/2016			349						
9/12/2016									
9/13/2016	354				212	276	264		432
9/14/2016		141	340	166				908	
11/14/2016							249	804	
11/15/2016	452		324			262			
11/16/2016		157		192	224				412
1/3/2017			348						
2/27/2017	339		347		223				
2/28/2017						290	251	930	434
3/1/2017		148		186					
5/22/2017			348		219				
5/23/2017		141		158					
5/24/2017	316					296	257	886	425
6/19/2017		126		156			258	924	424
6/20/2017			343			273			
6/21/2017	376				164				
8/14/2017			332		232		263	872	428
8/15/2017	340	146		168		279			
8/16/2017									
4/16/2018									
4/17/2018						250			
4/19/2018	304	143	369	154	218		247	880	455
10/1/2018						246	252	866	492
10/2/2018					212				
10/3/2018		148		156					
10/4/2018									
10/5/2018	544		762						
4/1/2019				160	225	268			
4/2/2019		140							
4/3/2019	336		810				273	910	536
5/7/2019			810						
9/16/2019							293		
9/17/2019	439	145				257			592
9/18/2019			704	154	222			908	
10/8/2019									
2/17/2020									
2/18/2020					215				
2/19/2020	363	149							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-3 (bg)	GN-AP-MW-15R	GN-AP-MW-2 (bg)	GN-AP-MW-19	GN-AP-MW-8	GN-AP-MW-16	GN-AP-MW-20	GN-AP-MW-17
2/25/2020			674			252	284	930	
2/26/2020									561
7/22/2020								934	
7/23/2020	399								
7/27/2020		154			223				
7/28/2020			606				284		
7/29/2020						253			566
4/5/2021		136			220		333		
4/6/2021	342		590			256			772
4/7/2021									
4/12/2021								926	
4/13/2021									
9/21/2021						256			
9/22/2021	394				218				
9/27/2021		132							
9/28/2021			566				354	922	
9/29/2021									842
4/19/2022					225				
4/20/2022								946	967
4/26/2022									
4/27/2022	417						369		
5/2/2022			574			237			
5/3/2022		141							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-18	GN-AP-MW-10	GN-AP-MW-7	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4
3/28/2016									
3/29/2016	560								
3/30/2016		195	472	353	430	398	184	202	339
4/4/2016									
5/17/2016	540	189							269
5/18/2016				343			186	207	
5/19/2016			458		422				
5/23/2016						411			
7/11/2016									305
7/12/2016									
7/13/2016		179	412	352	391		192		
7/14/2016						424		203	
7/18/2016	546								
8/22/2016									
9/12/2016				346				205	
9/13/2016		168	312		378	426	187		
9/14/2016	542								326
11/14/2016	514			322			185	197	
11/15/2016		180	426		354	412			
11/16/2016									338
1/3/2017									
2/27/2017									
2/28/2017	536	180		353			198	221	303
3/1/2017			487		389	452			
5/22/2017		178					185		
5/23/2017			487		375	448			
5/24/2017	536			234				204	312
6/19/2017	598	165					189		
6/20/2017			421		416	437			
6/21/2017				372				218	241
8/14/2017	550	185		372			135	217	
8/15/2017			490		394	440			281
8/16/2017									
4/16/2018		181		365			174		
4/17/2018			464		437	454			
4/19/2018	540							201	282
10/1/2018	514					449			
10/2/2018		161							
10/3/2018									354
10/4/2018			504	372	418		208		
10/5/2018								208	
4/1/2019									
4/2/2019			428		447	390			270
4/3/2019	560	177		372			200	201	
5/7/2019									
9/16/2019		168		377			207		
9/17/2019								204	332
9/18/2019	592		489		445	434			
10/8/2019		172					207 (D)		
2/17/2020		170					209		
2/18/2020				378					274
2/19/2020								206	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-18	GN-AP-MW-10	GN-AP-MW-7	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4
2/25/2020	578								
2/26/2020			490		455	228			
7/22/2020	594	175					216		
7/23/2020									
7/27/2020				378				202	284
7/28/2020			434		485	406			
7/29/2020									
4/5/2021		184		372			217		248
4/6/2021	596							193	
4/7/2021			436		436	256			
4/12/2021									
4/13/2021									
9/21/2021		174					217		
9/22/2021				375				210	
9/27/2021			379		415	240			237
9/28/2021	608								
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022	596								
4/27/2022									
5/2/2022		173					234	201	248
5/3/2022			329	371	376	239			

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-39 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
3/28/2016								
3/29/2016								
3/30/2016								
4/4/2016	182							
5/17/2016								
5/18/2016								
5/19/2016								
5/23/2016	184							
7/11/2016								
7/12/2016	176							
7/13/2016		468						
7/14/2016			435					
7/18/2016								
8/22/2016		393	426					
9/12/2016								
9/13/2016	170	428	430					
9/14/2016								
11/14/2016								
11/15/2016	180	452	404					
11/16/2016								
1/3/2017		418	428					
2/27/2017								
2/28/2017	203							
3/1/2017		346	484					
5/22/2017								
5/23/2017		386	460					
5/24/2017	199							
6/19/2017								
6/20/2017	178	363	485					
6/21/2017								
8/14/2017								
8/15/2017		364	488					
8/16/2017	205							
4/16/2018								
4/17/2018	193	410	477					
4/19/2018								
10/1/2018	198							
10/2/2018								
10/3/2018								
10/4/2018		506	467					
10/5/2018								
4/1/2019	205							
4/2/2019		401	522					
4/3/2019								
5/7/2019								
9/16/2019								
9/17/2019	207							
9/18/2019		504	460					
10/8/2019								
2/17/2020	211							
2/18/2020								
2/19/2020								

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/1/2022 11:01 AM View: Appendix III

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-39 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-42 (bg)
2/25/2020								
2/26/2020		490	497					
7/22/2020								
7/23/2020								
7/27/2020								
7/28/2020		476	500					
7/29/2020	215							
4/5/2021	211							
4/6/2021								
4/7/2021		432	409					
4/12/2021				146	126	118	129	
4/13/2021								77.3
9/21/2021	205			139	148	111	115	83.3
9/22/2021								
9/27/2021		443	402					
9/28/2021								
9/29/2021								
4/19/2022				144	138	107	122	67.3
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	209							
5/3/2022		388	308					

CLD ¦ w9 9ϕ

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.03294	116	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.03298	132	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.374	131	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-20	0.1526	92	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.183	70	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.215	73	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	2.765	87	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	18.02	100	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.166	84	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1678	80	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	11.22	139	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	2.1	126	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	7.583	123	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.373	105	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5325	81	68	Yes	18	5.556	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-20	0.6244	105	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.5047	87	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.209	123	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	4.71	84	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	31.34	84	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.138	77	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-19.72	-83	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	2.025	95	68	Yes	18	5.556	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	6.591	110	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	5.765	79	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	10.66	74	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	47.95	97	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-20	10.95	71	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-8.526	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	6.342	95	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**GN-AP-MW-11**	**0.03294**	**116**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GN-AP-MW-12**	**0.03298**	**132**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GN-AP-MW-15R**	**0.374**	**131**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GN-AP-MW-16	0.02049	56	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-17	0.07864	39	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.03097	47	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-2 (bg)	0	0	43	No	13	100	n/a	n/a	0.01	NP
Boron (mg/L)	**GN-AP-MW-20**	**0.1526**	**92**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GN-AP-MW-21	0.04042	17	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-22	0.01828	5	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-3 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-4	-0.02648	-37	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-5	-0.1273	-37	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-6	-0.01839	-11	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-7	0.02205	10	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-39 (bg)	0	NaN	NaN	No	3	100	n/a	n/a	NaN	NP
Boron (mg/L)	GN-AP-MW-40 (bg)	0.06603	NaN	NaN	No	3	66.67	n/a	n/a	NaN	NP
Boron (mg/L)	GN-AP-MW-41 (bg)	0	NaN	NaN	No	3	100	n/a	n/a	NaN	NP
Boron (mg/L)	GN-AP-MW-38 (bg)	0	NaN	NaN	No	3	100	n/a	n/a	NaN	NP
Boron (mg/L)	GN-AP-MW-42 (bg)	0	NaN	NaN	No	3	100	n/a	n/a	NaN	NP
Calcium (mg/L)	**GN-AP-MW-11**	**1.183**	**70**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-AP-MW-12**	**1.215**	**73**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-AP-MW-13	-0.02476	-3	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-14	-0.05967	-2	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-15R	8.384	72	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GN-AP-MW-16**	**2.765**	**87**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-AP-MW-17**	**18.02**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GN-AP-MW-18**	**4.166**	**84**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GN-AP-MW-19	0	0	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-2 (bg)	0.6928	22	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-20	2.777	44	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-21	3.304	37	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-22	5.877	56	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-3 (bg)	0.1279	20	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-4	0.1095	13	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-5	-1.093	-14	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-6	3.052	43	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-7	-0.1534	-1	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-8	-0.37	-31	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-39 (bg)	1.374	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Calcium (mg/L)	GN-AP-MW-40 (bg)	-1.276	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Calcium (mg/L)	GN-AP-MW-41 (bg)	2.747	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Calcium (mg/L)	GN-AP-MW-38 (bg)	0.09812	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Calcium (mg/L)	GN-AP-MW-42 (bg)	-0.6887	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	**GN-AP-MW-11**	**0.1678**	**80**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-AP-MW-12	-0.1137	-35	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-AP-MW-15R**	**11.22**	**139**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-AP-MW-16**	**2.1**	**126**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-AP-MW-17**	**7.583**	**123**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-AP-MW-18**	**0.373**	**105**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GN-AP-MW-19**	**0.5325**	**81**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-AP-MW-2 (bg)	-0.1215	-9	-43	No	13	7.692	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-AP-MW-20**	**0.6244**	**105**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GN-AP-MW-21	1.94	29	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-22	2.83	36	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-3 (bg)	-0.04472	-48	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-4	-1.583	-38	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-5	-0.5341	-6	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-6	6.636	63	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-7	1.195	41	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GN-AP-MW-9**	**0.5047**	**87**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

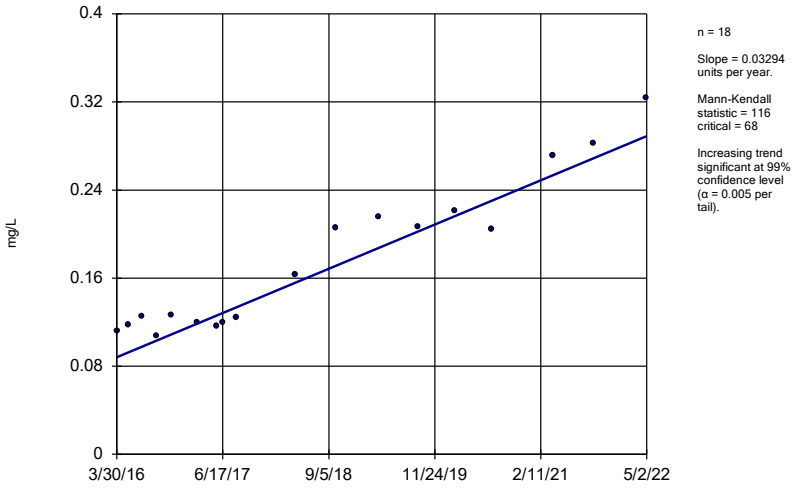
Trend Tests - Prediction Limit Exceedances - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/1/2022, 11:07 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GN-AP-MW-39 (bg)	-0.677	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	GN-AP-MW-40 (bg)	-2.06	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	GN-AP-MW-41 (bg)	-0.3336	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	GN-AP-MW-38 (bg)	-0.628	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Chloride (mg/L)	GN-AP-MW-42 (bg)	-0.3739	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-16	-0.01162	-27	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.04756	-63	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-2 (bg)	-0.02103	-11	-48	No	14	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-3 (bg)	-0.005505	-20	-74	No	19	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-39 (bg)	-0.2355	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-40 (bg)	-0.08831	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-41 (bg)	-0.3728	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-38 (bg)	-0.07849	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
pH (pH)	GN-AP-MW-42 (bg)	0.1673	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	**GN-AP-MW-11**	**4.209**	**123**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GN-AP-MW-12**	**4.71**	**84**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-14	7.41	54	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-15R	20.75	71	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	7.184	58	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-AP-MW-17**	**31.34**	**84**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-18	8.33	56	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-AP-MW-19**	**1.138**	**77**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-2 (bg)	-0.2042	-15	-43	No	13	7.692	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-20	3.891	24	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-21	4.451	27	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-22	-8.859	-38	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-3 (bg)	-0.2837	-43	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-AP-MW-5**	**-19.72**	**-83**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-6	-2.368	-42	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-7	-5.964	-42	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GN-AP-MW-9**	**2.025**	**95**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GN-AP-MW-39 (bg)	-3.14	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	GN-AP-MW-40 (bg)	-6.178	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	GN-AP-MW-41 (bg)	-1.59	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	GN-AP-MW-38 (bg)	-9.694	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
Sulfate (mg/L)	GN-AP-MW-42 (bg)	-2.627	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	**GN-AP-MW-11**	**6.591**	**110**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-AP-MW-12**	**5.765**	**79**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-AP-MW-13	-0.5668	-20	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-14	13.15	57	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-15R	40.58	54	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-AP-MW-16**	**10.66**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-AP-MW-17**	**47.95**	**97**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-AP-MW-18	10.59	68	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-19	0.9107	21	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-2 (bg)	-1.254	-10	-43	No	13	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-AP-MW-20**	**10.95**	**71**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-AP-MW-21	5.132	15	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-22	4.465	12	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-3 (bg)	-0.5376	-15	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-12.03	-56	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-5	-13.49	-37	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-6	8.707	39	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-7	0	-1	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GN-AP-MW-8**	**-8.526**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GN-AP-MW-9**	**6.342**	**95**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GN-AP-MW-39 (bg)	-1.962	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	GN-AP-MW-40 (bg)	-10.79	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	GN-AP-MW-41 (bg)	11.77	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	GN-AP-MW-38 (bg)	-6.868	NaN	NaN	No	3	0	n/a	n/a	NaN	NP
TDS (mg/L)	GN-AP-MW-42 (bg)	-9.838	NaN	NaN	No	3	0	n/a	n/a	NaN	NP

Sen's Slope Estimator

GN-AP-MW-11



n = 18

Slope = 0.03294 units per year.

Mann-Kendall statistic = 116
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

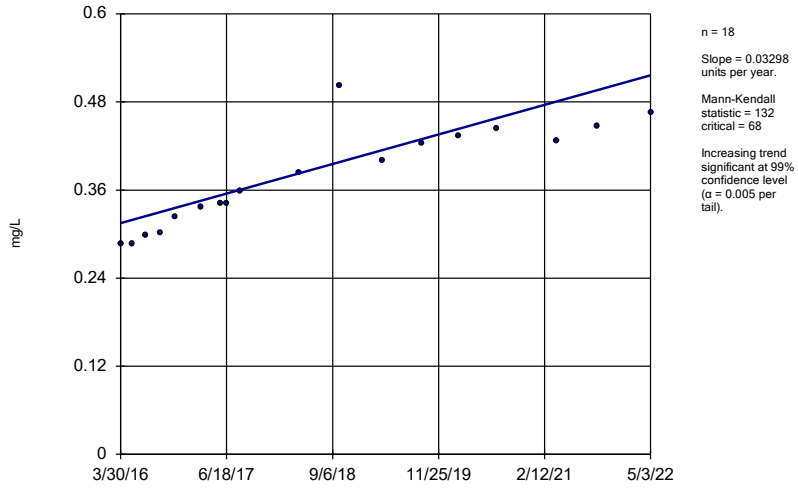
Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-12



n = 18

Slope = 0.03298 units per year.

Mann-Kendall statistic = 132
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

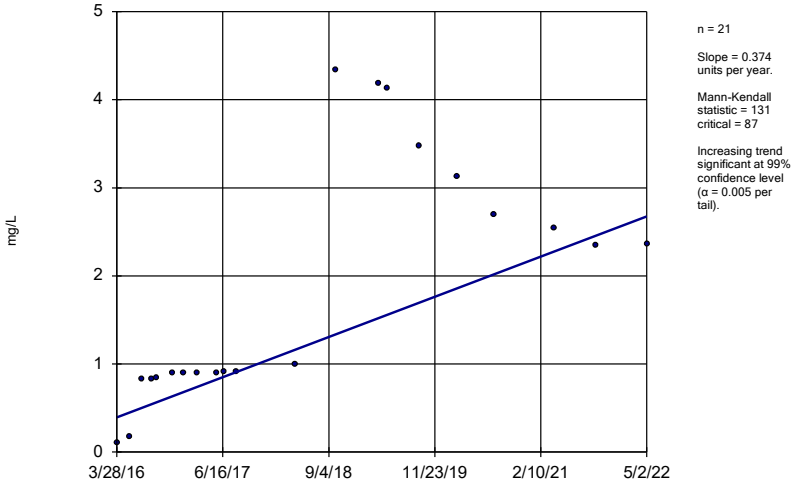
Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-15R



n = 21

Slope = 0.374 units per year.

Mann-Kendall statistic = 131
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

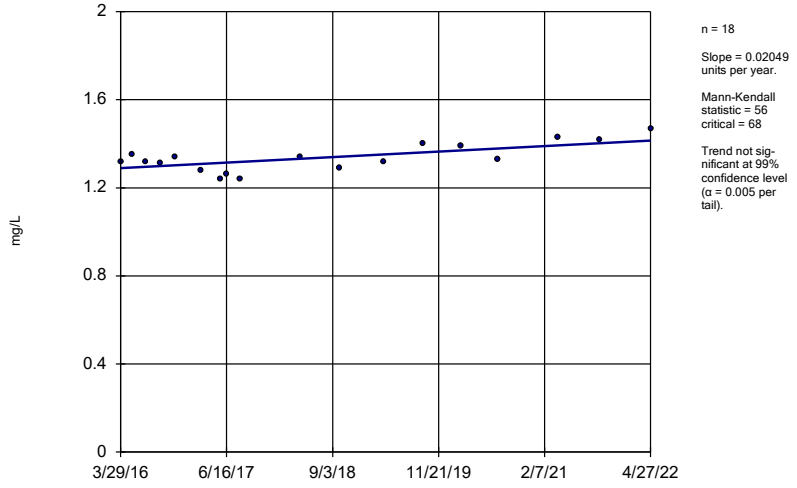
Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-16



n = 18

Slope = 0.02049 units per year.

Mann-Kendall statistic = 56
critical = 68

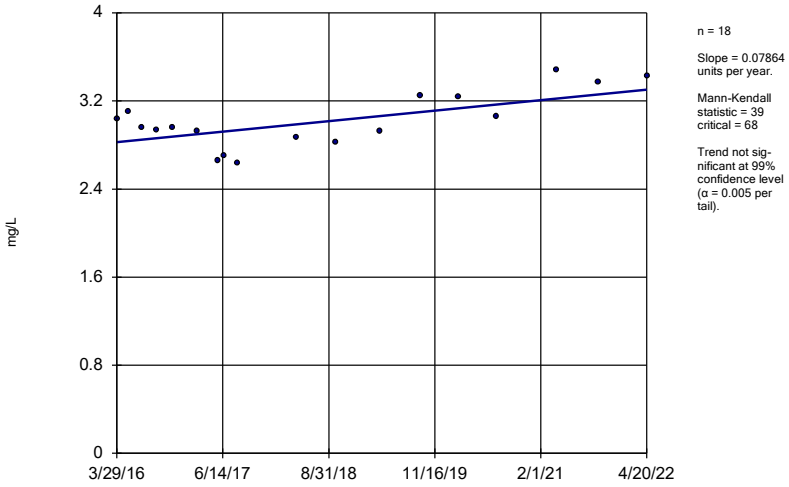
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17



n = 18

Slope = 0.07864 units per year.

Mann-Kendall statistic = 39 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

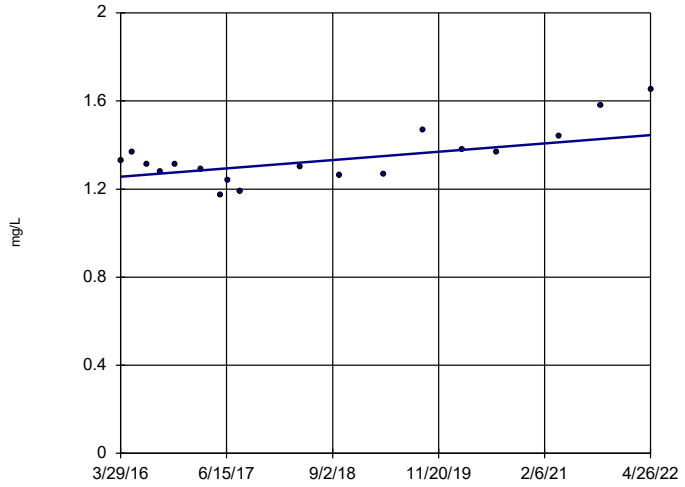
Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-18



n = 18

Slope = 0.03097 units per year.

Mann-Kendall statistic = 47 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

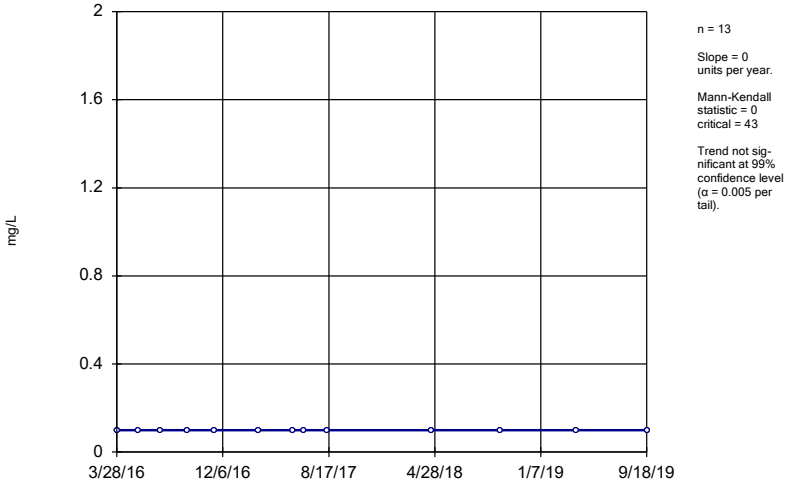
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-2 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

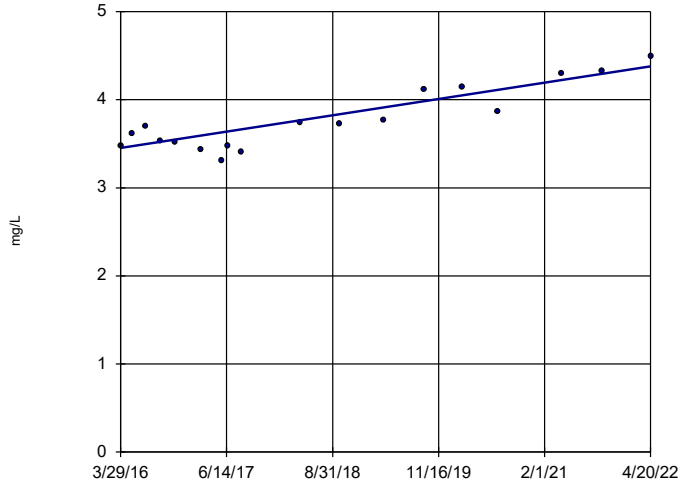
Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-20



n = 18

Slope = 0.1526 units per year.

Mann-Kendall statistic = 92 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

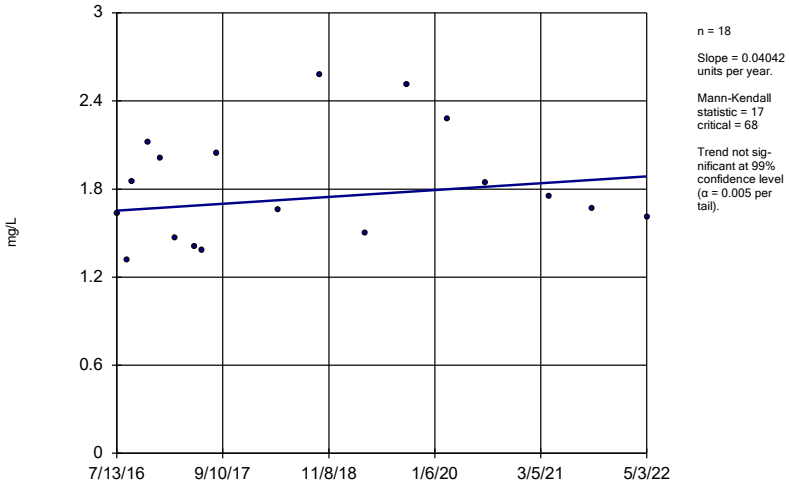
Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-21



n = 18

Slope = 0.04042 units per year.

Mann-Kendall statistic = 17 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

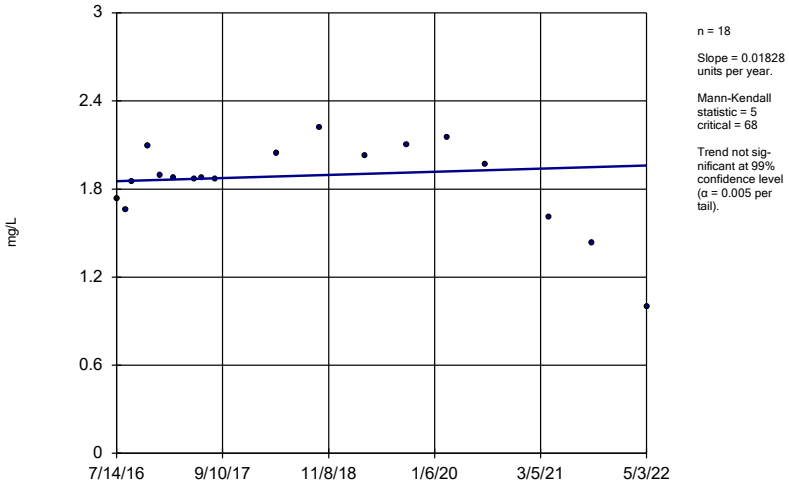
Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-22



n = 18

Slope = 0.01828 units per year.

Mann-Kendall statistic = 5 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

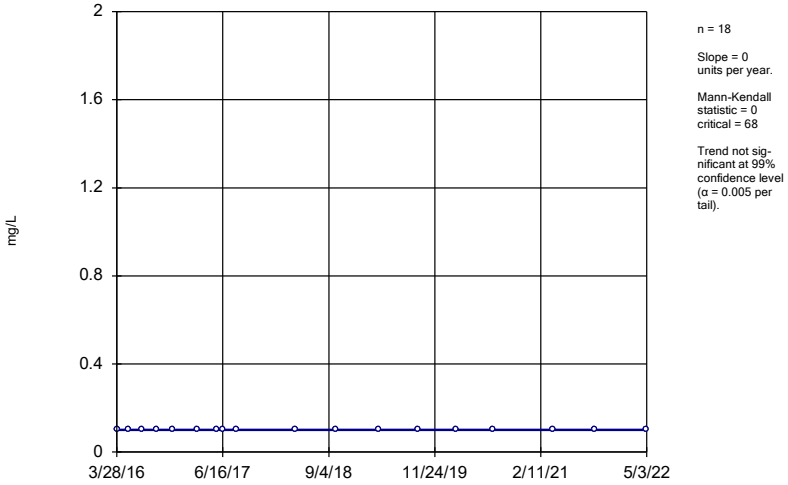
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-3 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

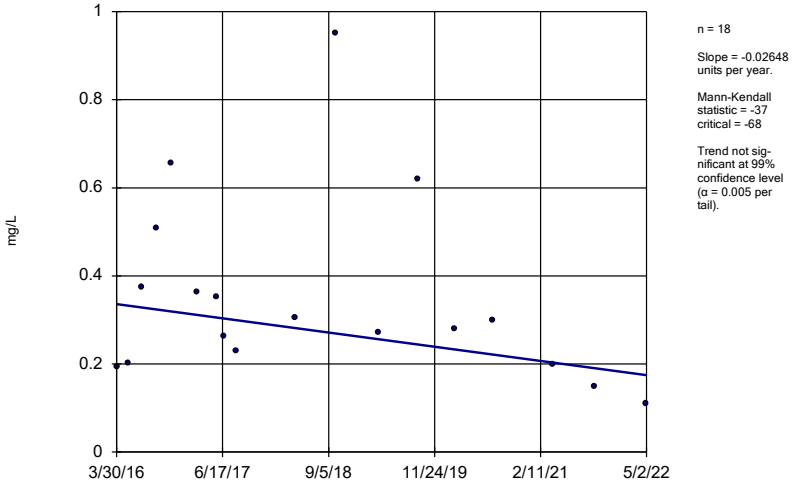
Constituent: Boron Analysis Run 7/1/2022 11:04 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-4



n = 18

Slope = -0.02648 units per year.

Mann-Kendall statistic = -37 critical = -68

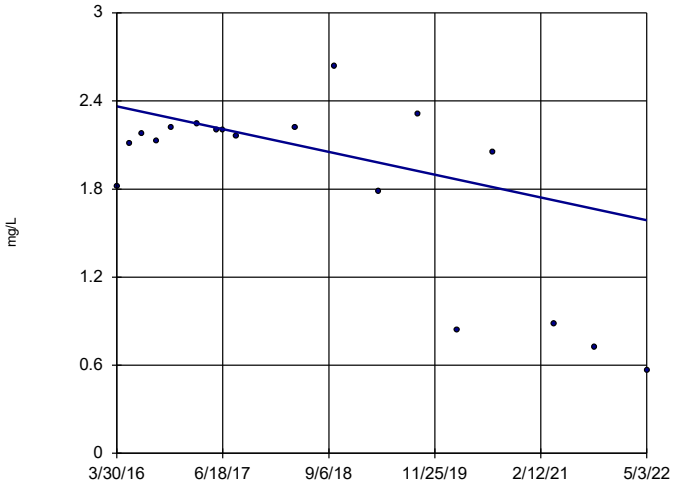
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-5



n = 18

Slope = -0.1273 units per year.

Mann-Kendall statistic = -37
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

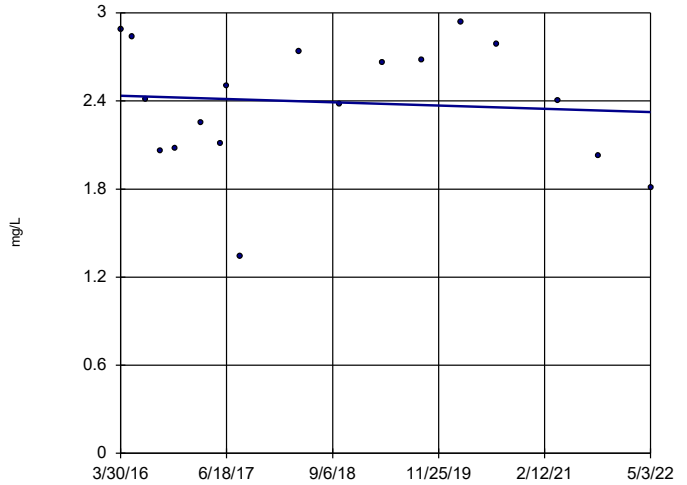
Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-6



n = 18

Slope = -0.01839 units per year.

Mann-Kendall statistic = -11
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

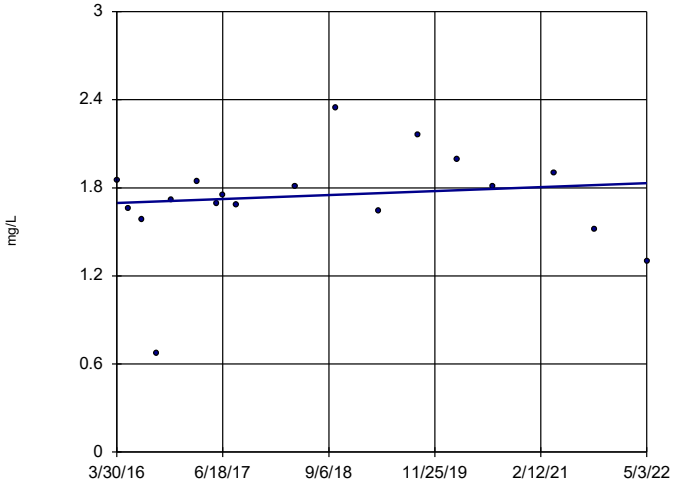
Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-7



n = 18

Slope = 0.02205 units per year.

Mann-Kendall statistic = 10
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

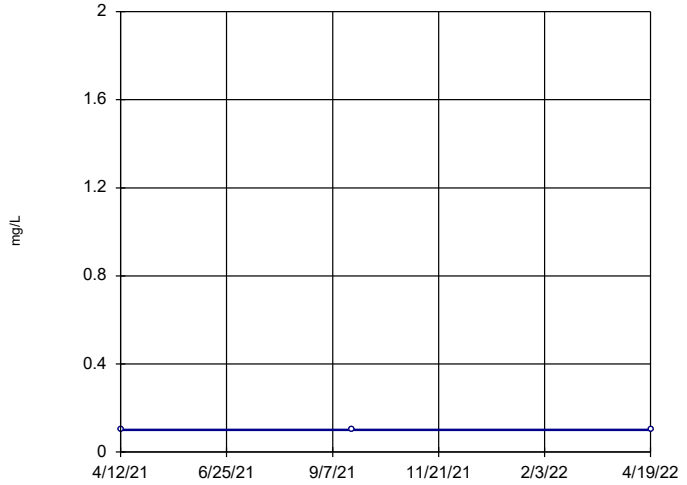
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-39 (bg)



n = 3

Slope = 0 units per year.

Minimum n for Mann-Kendall is 4.

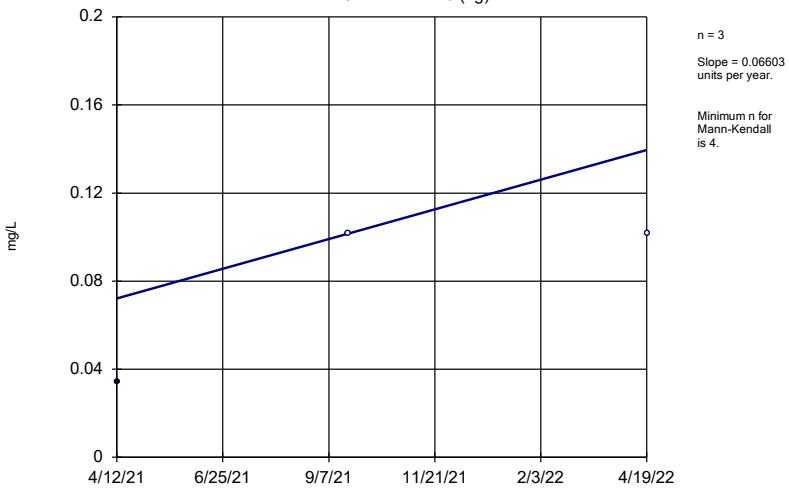
Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-40 (bg)

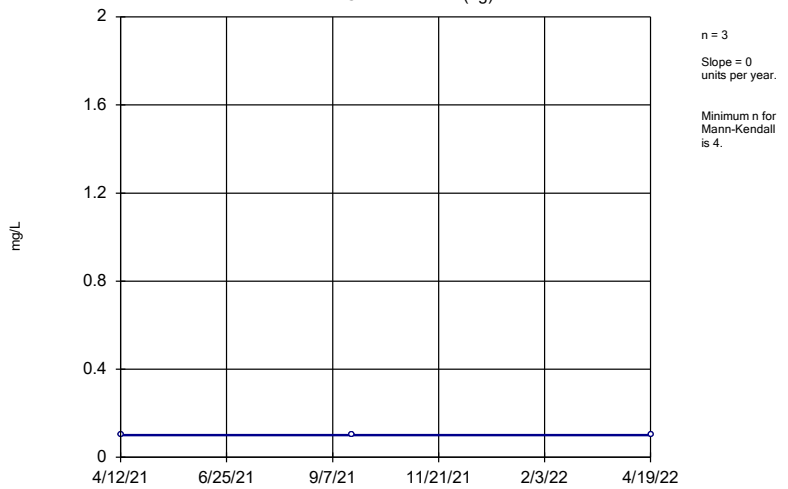


Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-41 (bg)

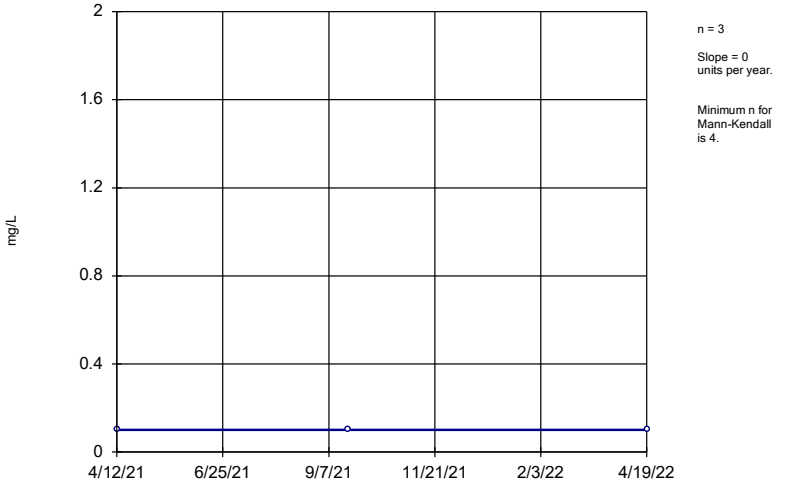


Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-38 (bg)

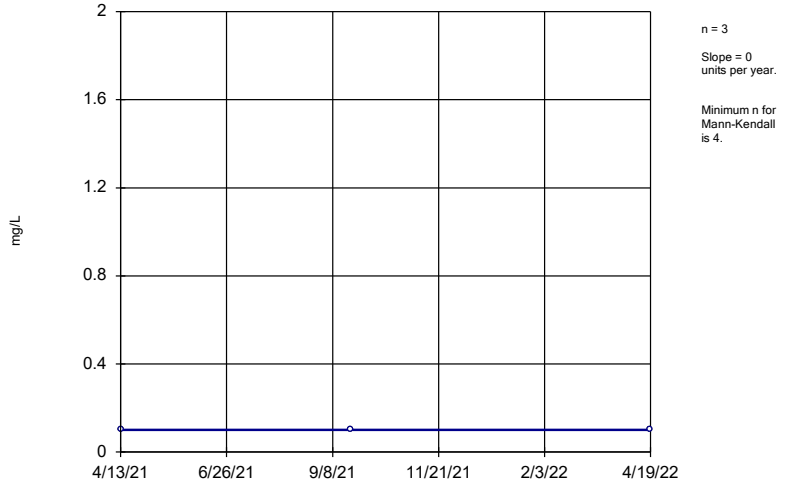


Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

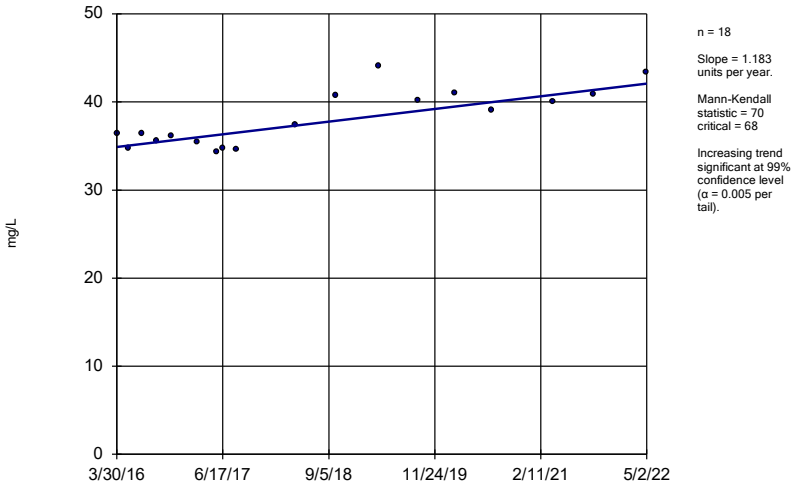
GN-AP-MW-42 (bg)



Constituent: Boron Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-11



n = 18

Slope = 1.183 units per year.

Mann-Kendall statistic = 70
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

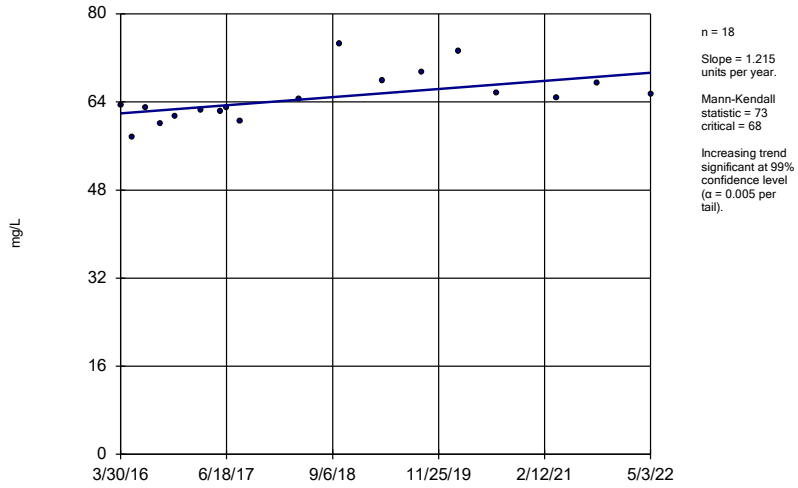
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-12



n = 18

Slope = 1.215 units per year.

Mann-Kendall statistic = 73
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

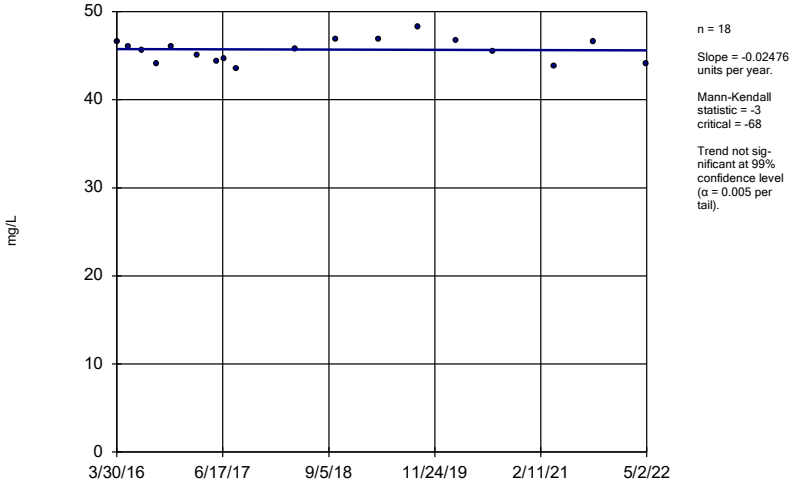
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-13



n = 18

Slope = -0.02476 units per year.

Mann-Kendall statistic = -3
critical = -68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

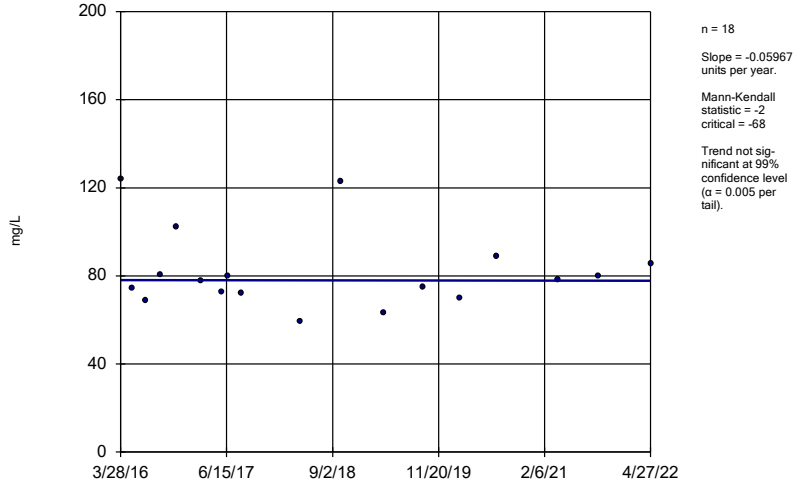
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-14



n = 18

Slope = -0.05967 units per year.

Mann-Kendall statistic = -2
critical = -68

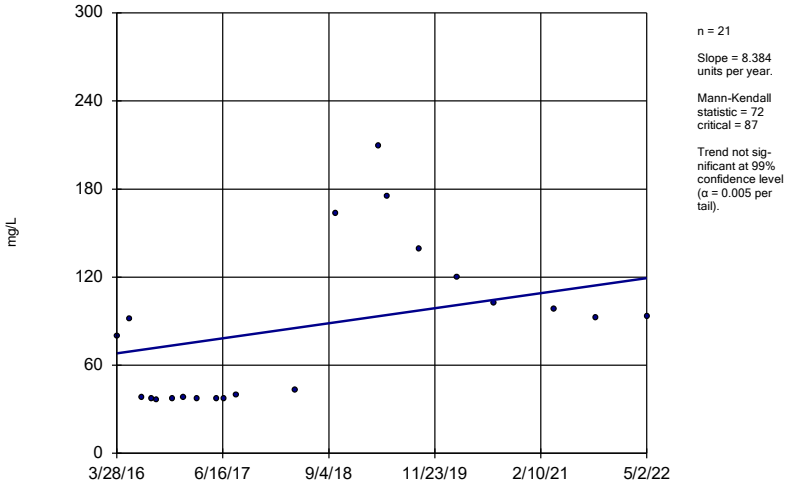
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-15R



n = 21

Slope = 8.384 units per year.

Mann-Kendall statistic = 72
critical = 87

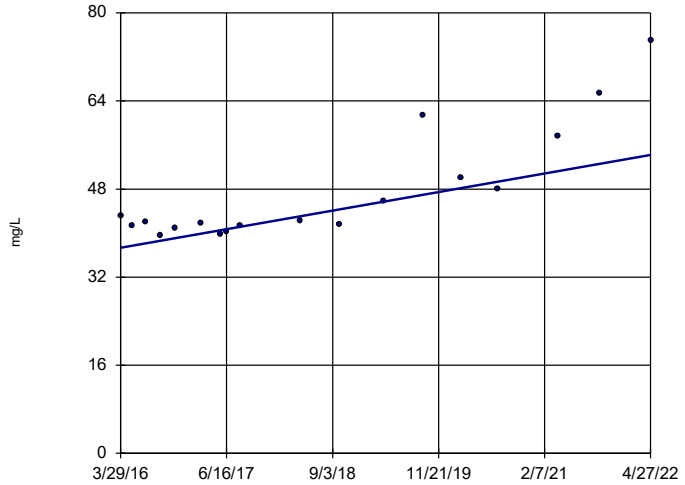
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-16



n = 18

Slope = 2.765 units per year.

Mann-Kendall statistic = 87
critical = 68

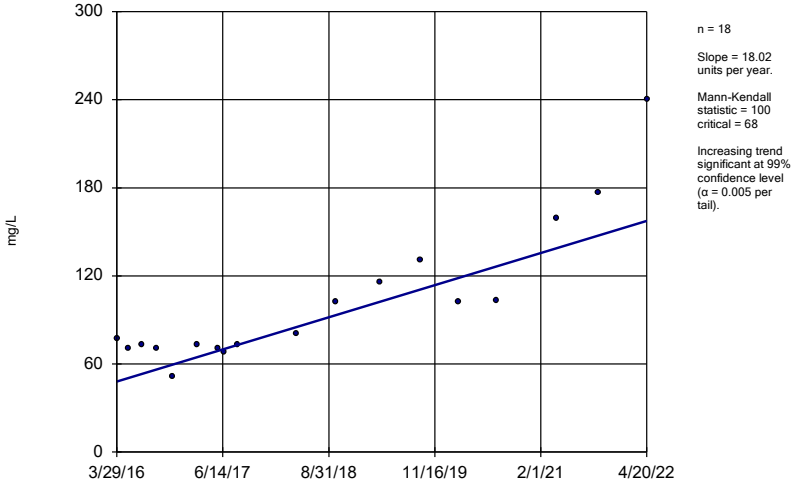
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-17



n = 18

Slope = 18.02 units per year.

Mann-Kendall statistic = 100
critical = 68

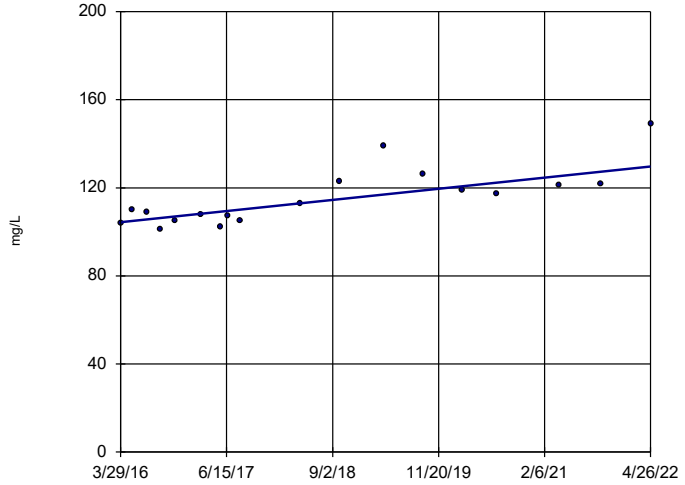
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-18



n = 18

Slope = 4.166 units per year.

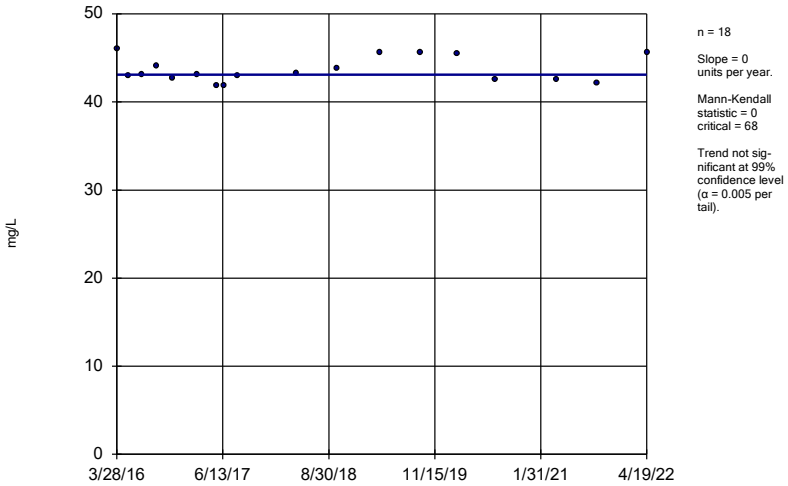
Mann-Kendall statistic = 84
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-19



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

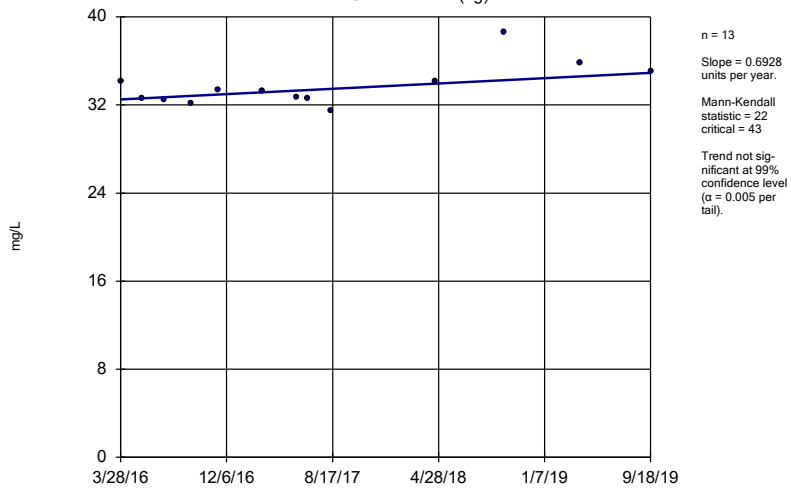
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-2 (bg)



n = 13

Slope = 0.6928 units per year.

Mann-Kendall statistic = 22 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

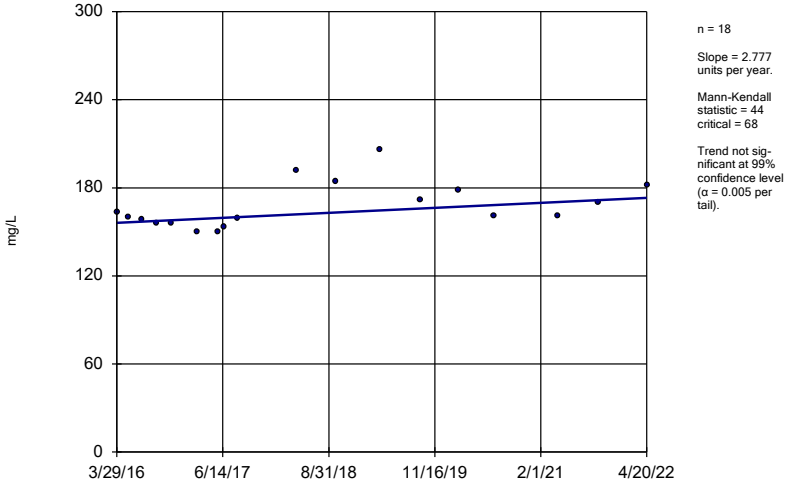
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-20



n = 18

Slope = 2.777 units per year.

Mann-Kendall statistic = 44 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

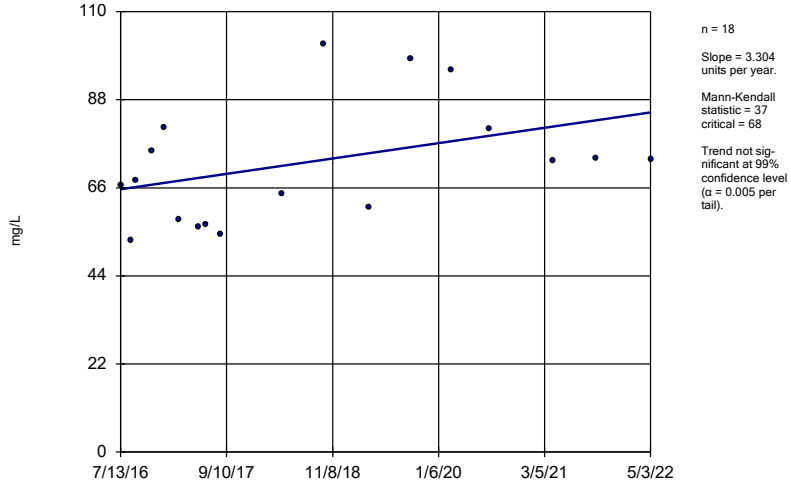
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-21



n = 18

Slope = 3.304 units per year.

Mann-Kendall statistic = 37 critical = 68

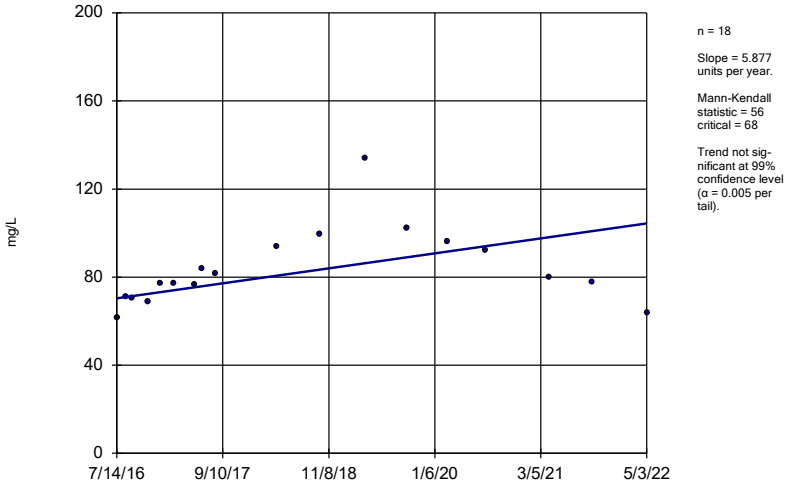
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-22



n = 18

Slope = 5.877 units per year.

Mann-Kendall statistic = 56 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

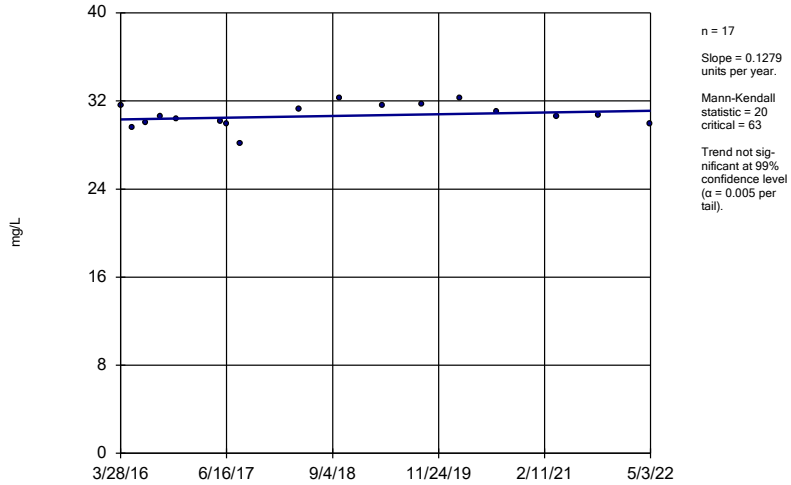
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-3 (bg)



n = 17

Slope = 0.1279 units per year.

Mann-Kendall statistic = 20 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

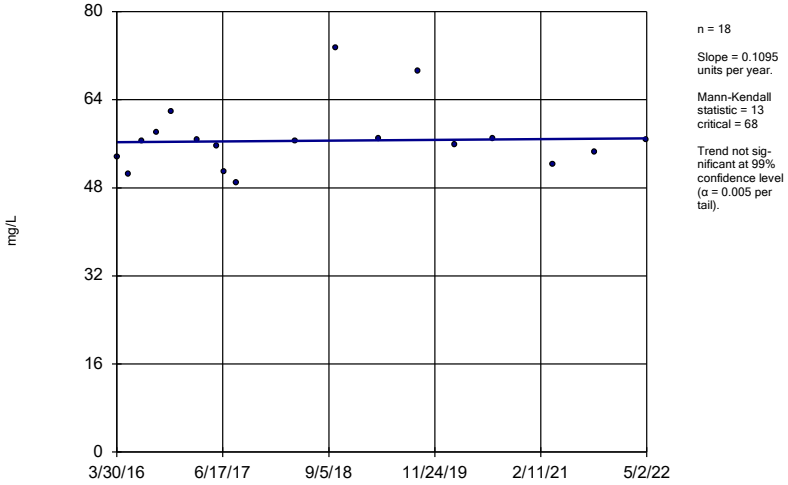
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-4



n = 18

Slope = 0.1095 units per year.

Mann-Kendall statistic = 13 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

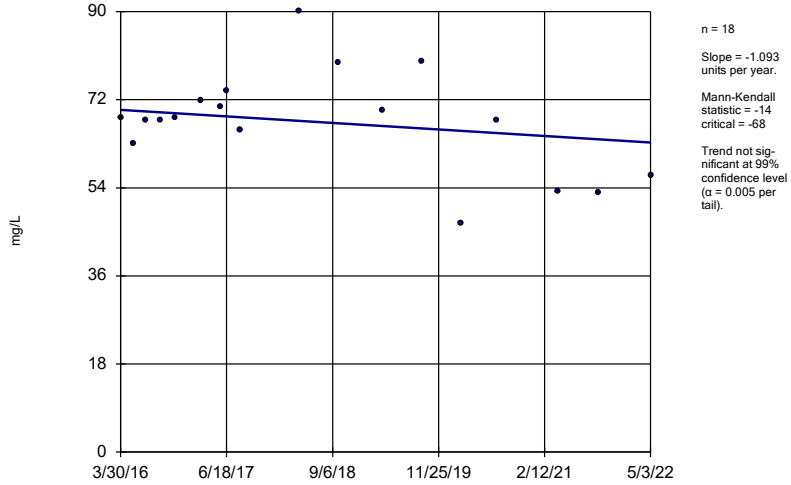
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-5



n = 18

Slope = -1.093 units per year.

Mann-Kendall statistic = -14 critical = -68

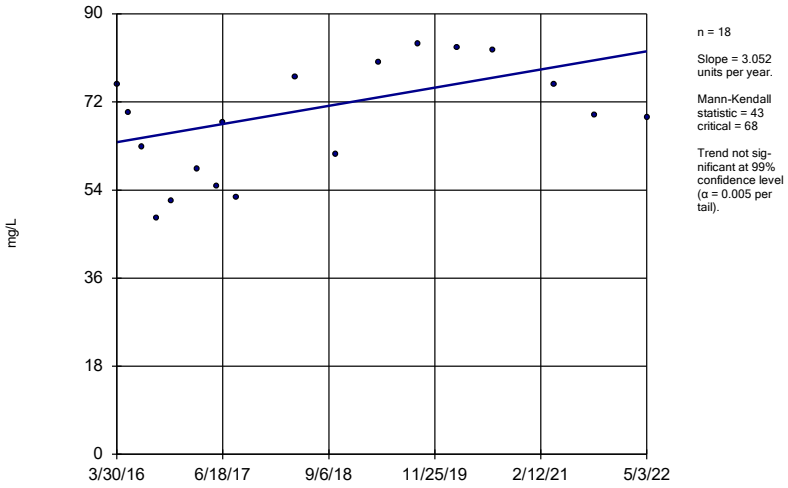
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-6



n = 18

Slope = 3.052 units per year.

Mann-Kendall statistic = 43 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

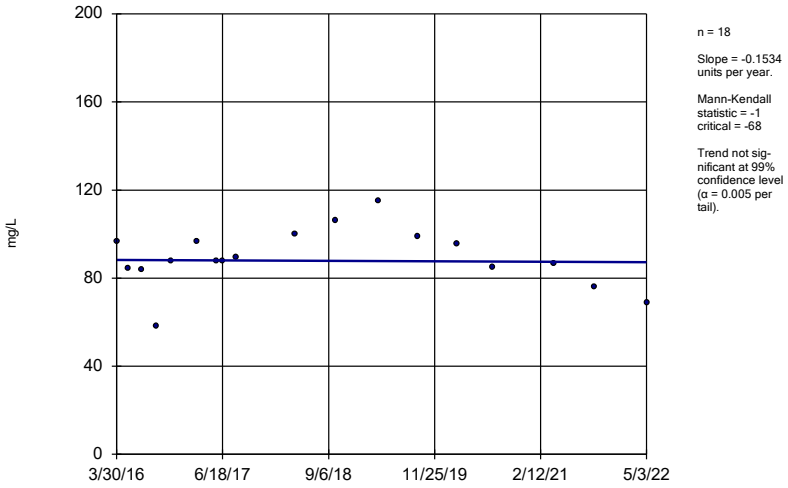
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-7



n = 18

Slope = -0.1534 units per year.

Mann-Kendall statistic = -1 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

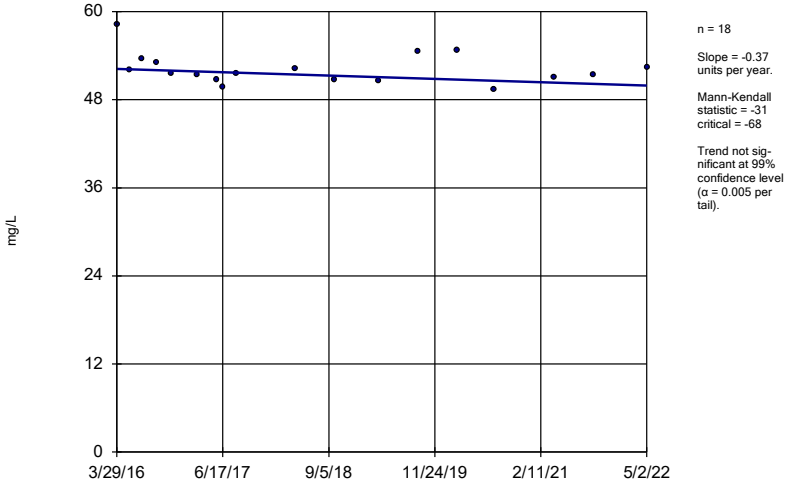
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-8



n = 18

Slope = -0.37 units per year.

Mann-Kendall statistic = -31 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

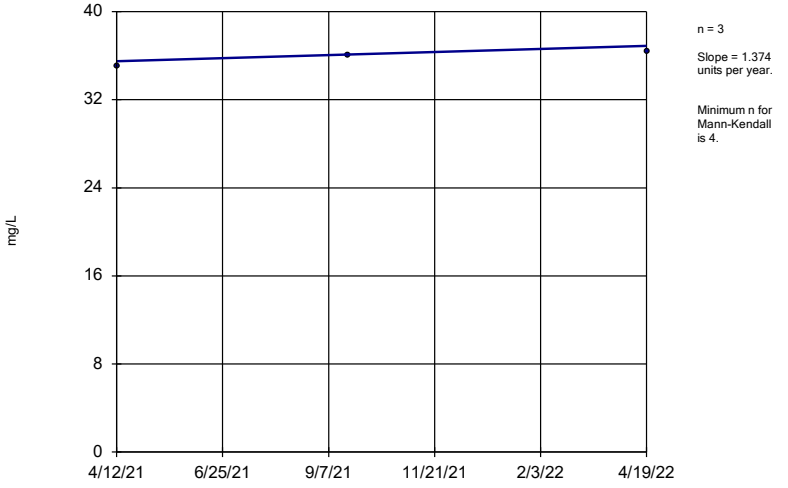
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-39 (bg)



n = 3

Slope = 1.374 units per year.

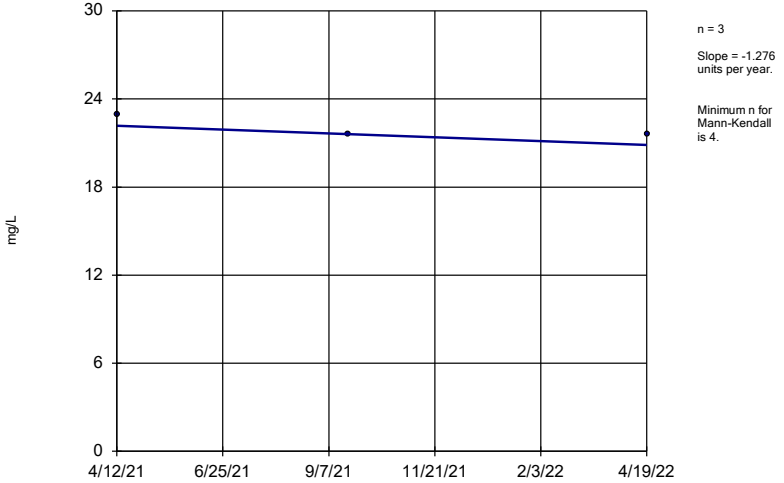
Minimum n for Mann-Kendall is 4.

Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-40 (bg)



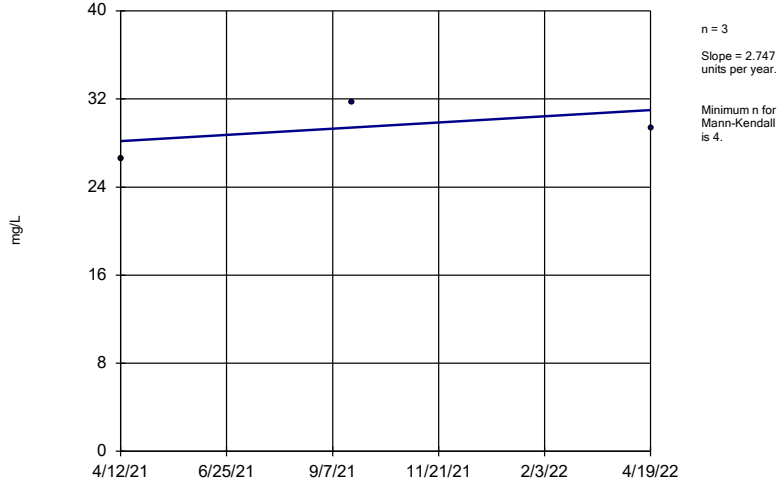
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-41 (bg)



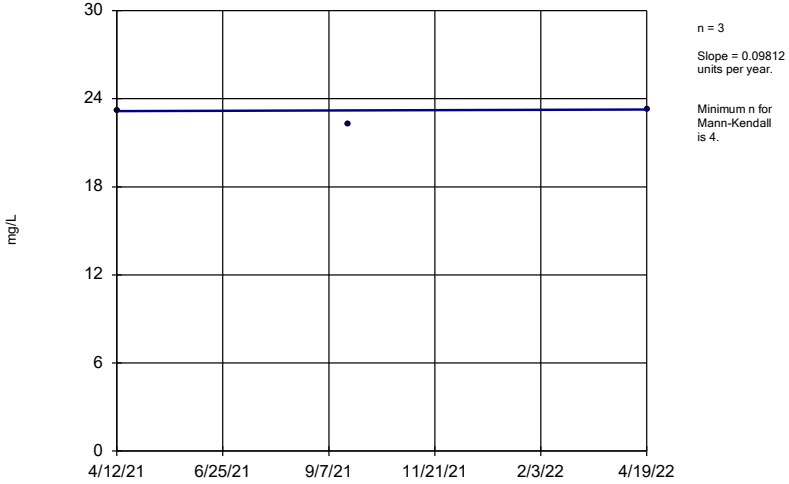
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-38 (bg)



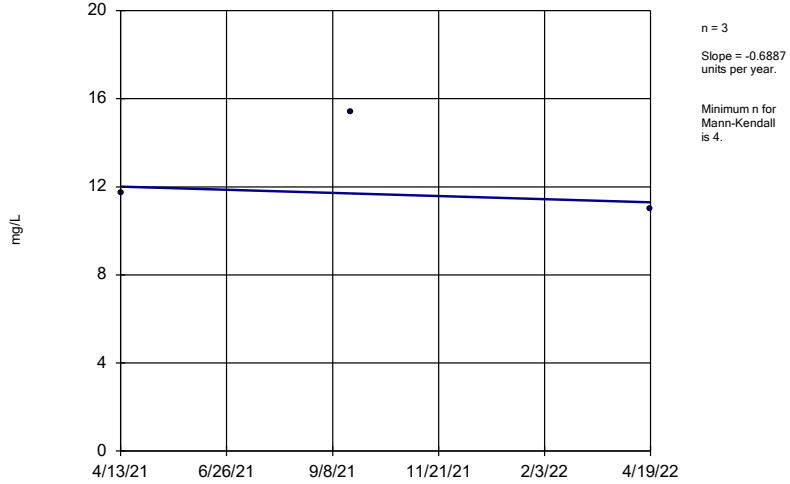
Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-42 (bg)

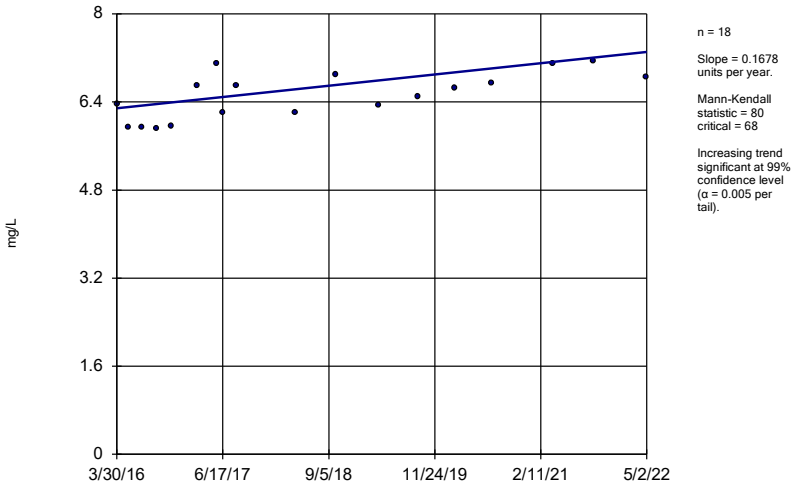


Constituent: Calcium Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-11



n = 18

Slope = 0.1678 units per year.

Mann-Kendall statistic = 80 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

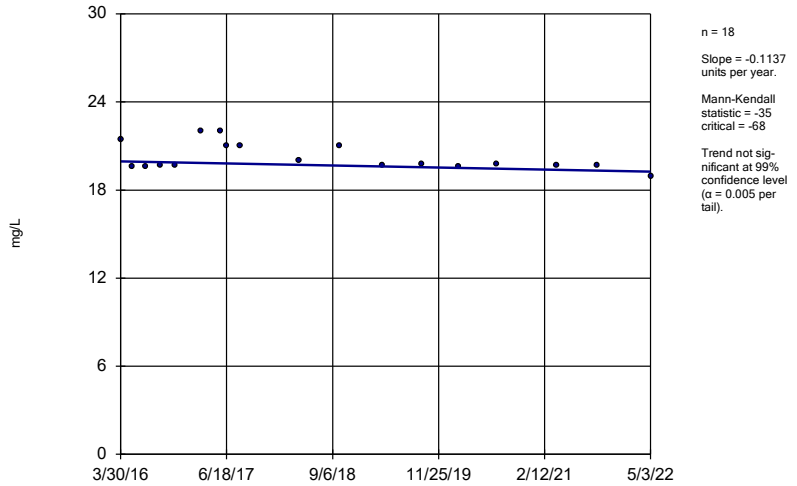
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-12



n = 18

Slope = -0.1137 units per year.

Mann-Kendall statistic = -35 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

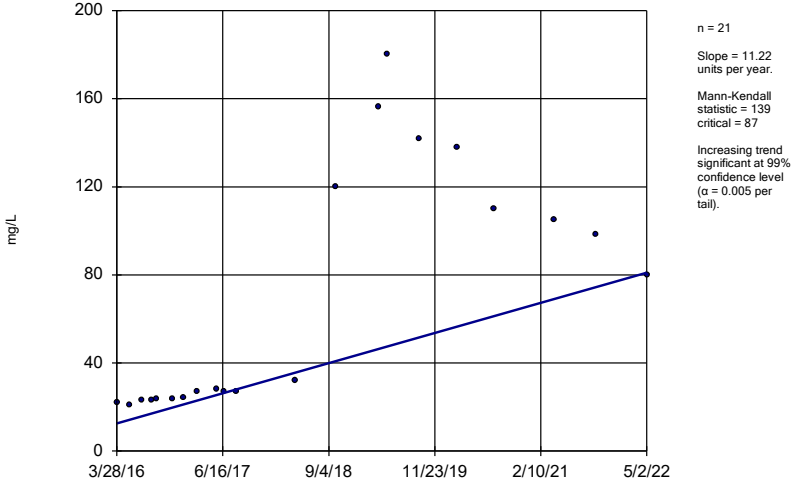
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-15R



n = 21

Slope = 11.22 units per year.

Mann-Kendall statistic = 139 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

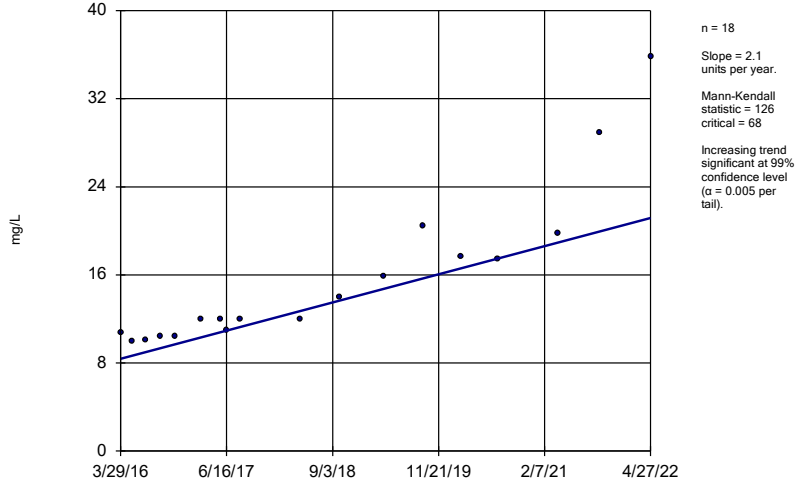
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-16



n = 18

Slope = 2.1 units per year.

Mann-Kendall statistic = 126 critical = 68

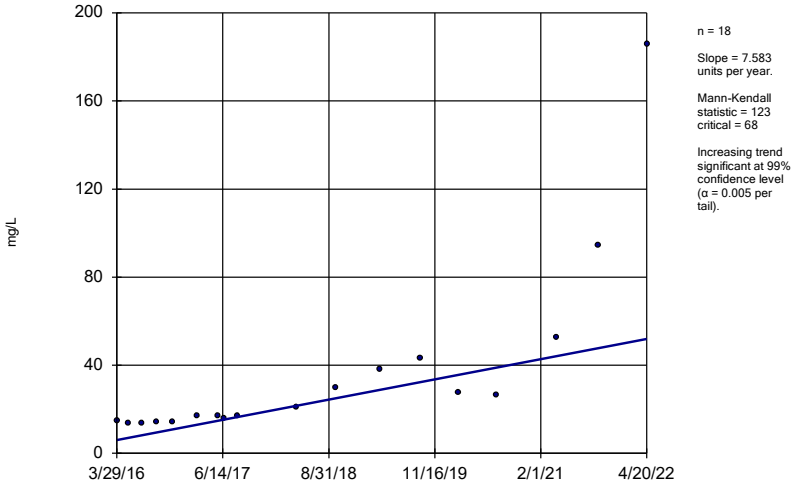
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17



n = 18

Slope = 7.583 units per year.

Mann-Kendall statistic = 123 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

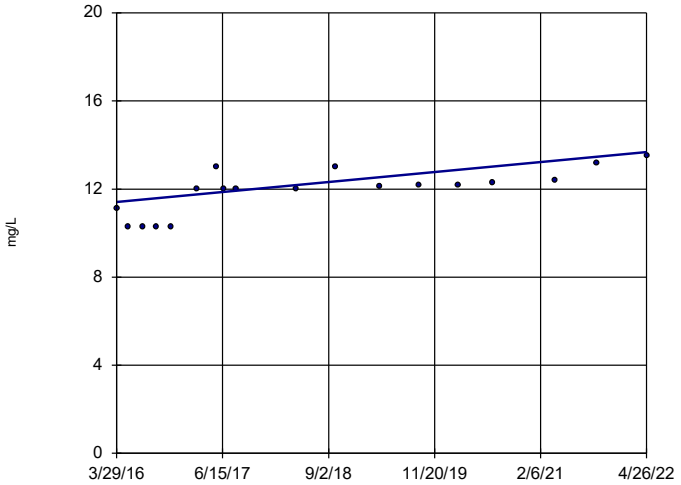
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-18



n = 18

Slope = 0.373 units per year.

Mann-Kendall statistic = 105 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

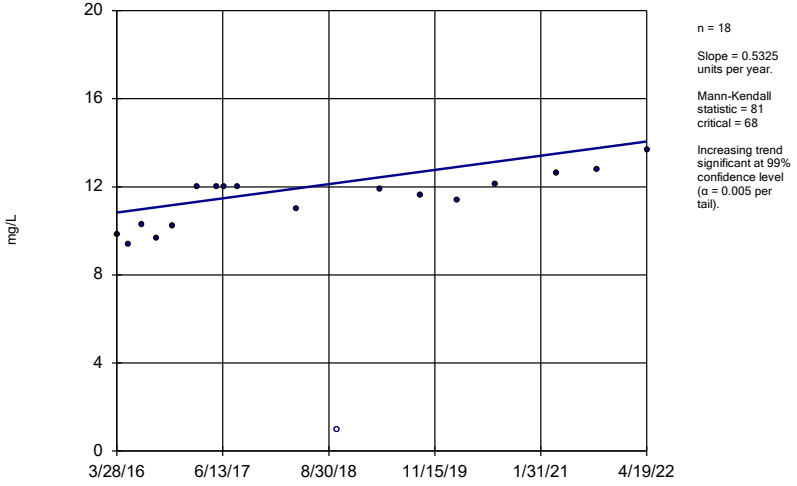
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-19



n = 18

Slope = 0.5325 units per year.

Mann-Kendall statistic = 81 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

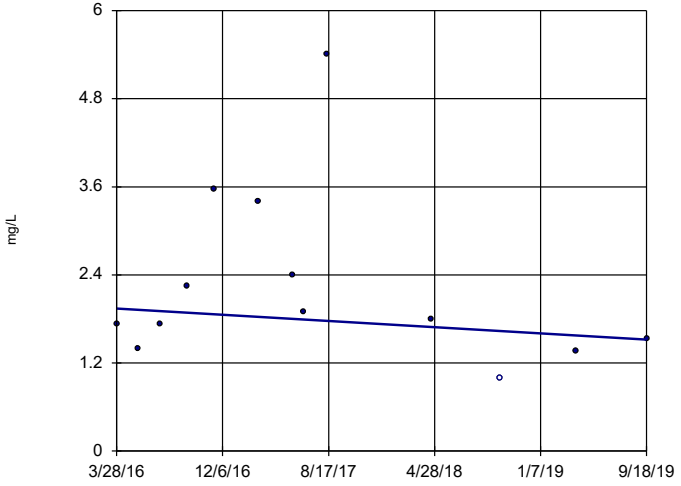
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-2 (bg)



n = 13

Slope = -0.1215 units per year.

Mann-Kendall statistic = -9 critical = -43

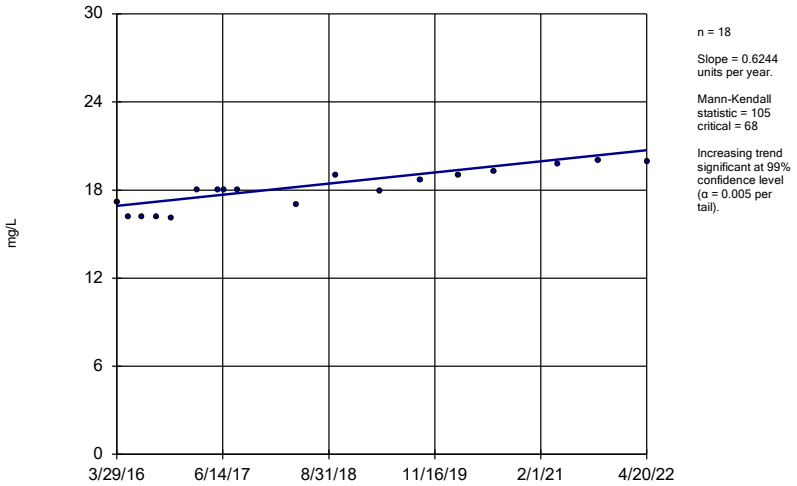
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-20



n = 18

Slope = 0.6244 units per year.

Mann-Kendall statistic = 105
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

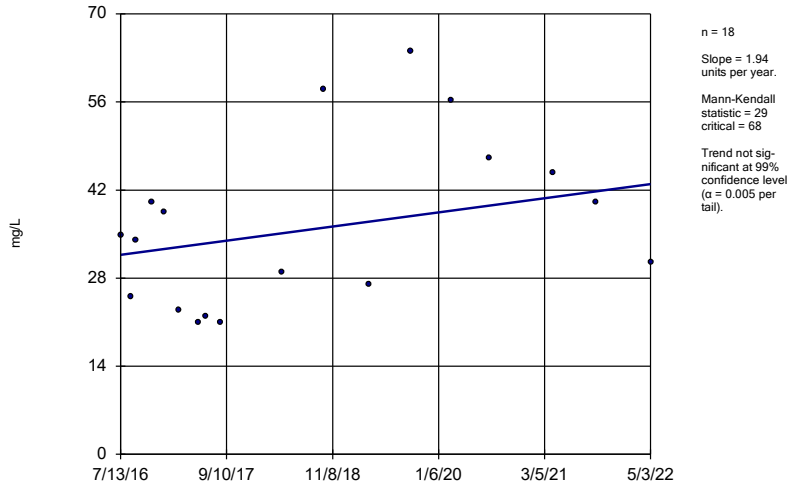
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-21



n = 18

Slope = 1.94 units per year.

Mann-Kendall statistic = 29
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

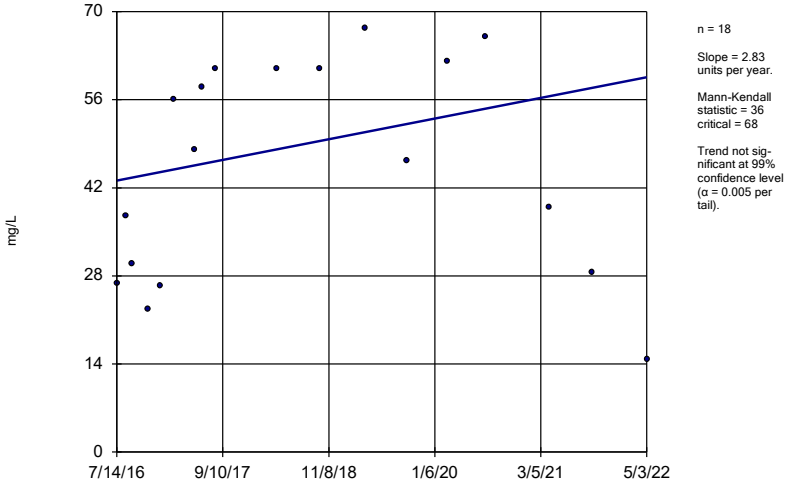
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-22



n = 18

Slope = 2.83 units per year.

Mann-Kendall statistic = 36
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

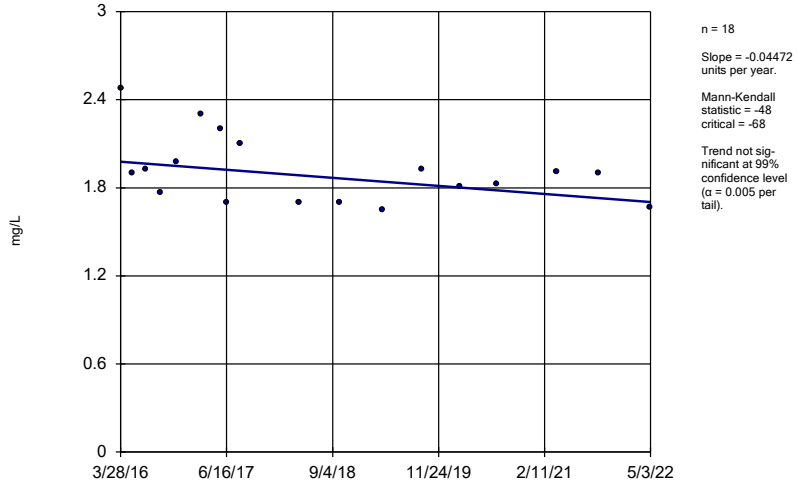
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-3 (bg)



n = 18

Slope = -0.04472 units per year.

Mann-Kendall statistic = -48
critical = -68

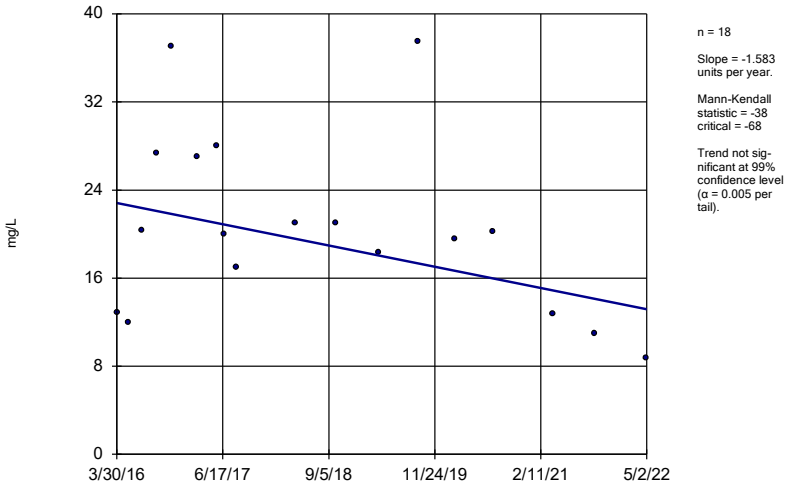
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-4



n = 18

Slope = -1.583 units per year.

Mann-Kendall statistic = -38
critical = -68

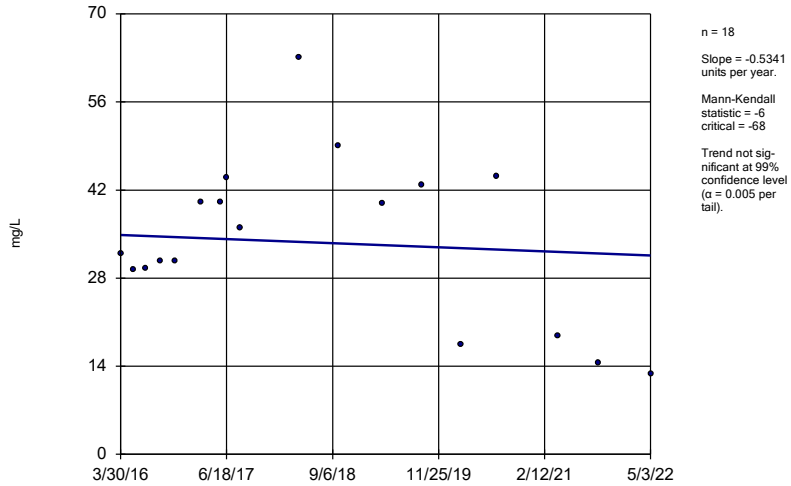
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-5



n = 18

Slope = -0.5341 units per year.

Mann-Kendall statistic = -6
critical = -68

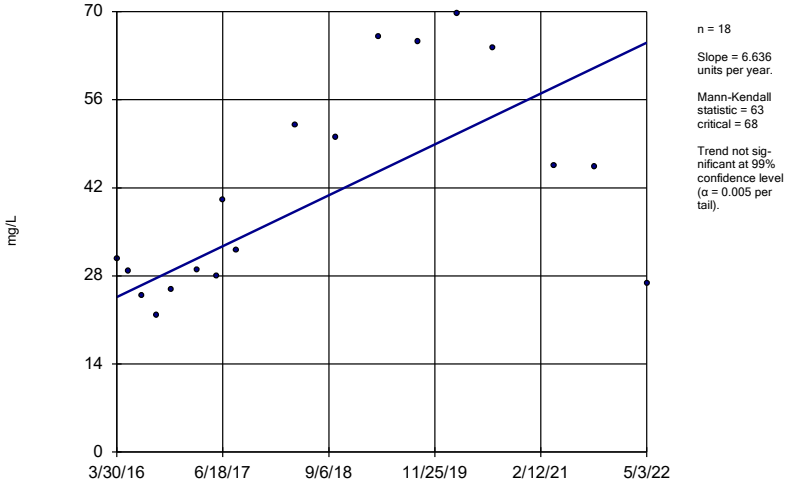
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-6



n = 18

Slope = 6.636 units per year.

Mann-Kendall statistic = 63
critical = 68

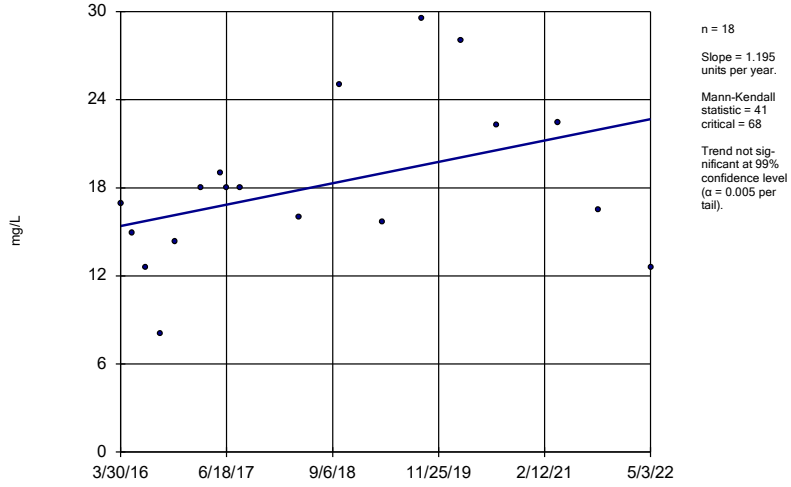
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-7



n = 18

Slope = 1.195 units per year.

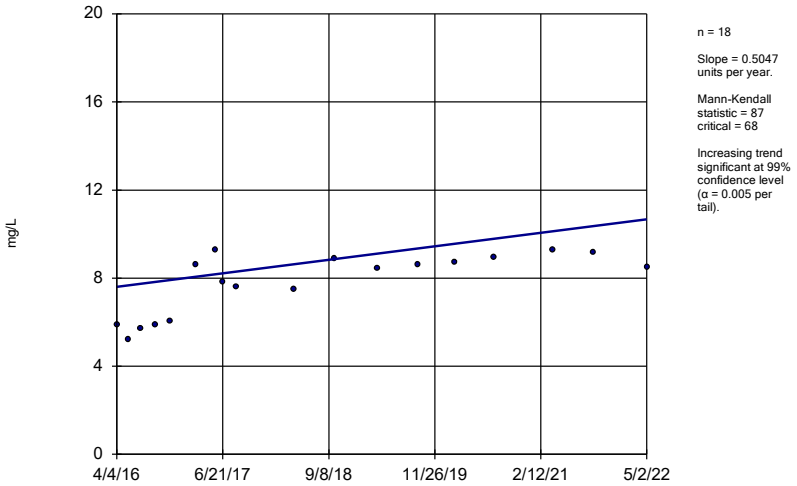
Mann-Kendall statistic = 41
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-9



n = 18

Slope = 0.5047 units per year.

Mann-Kendall statistic = 87 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

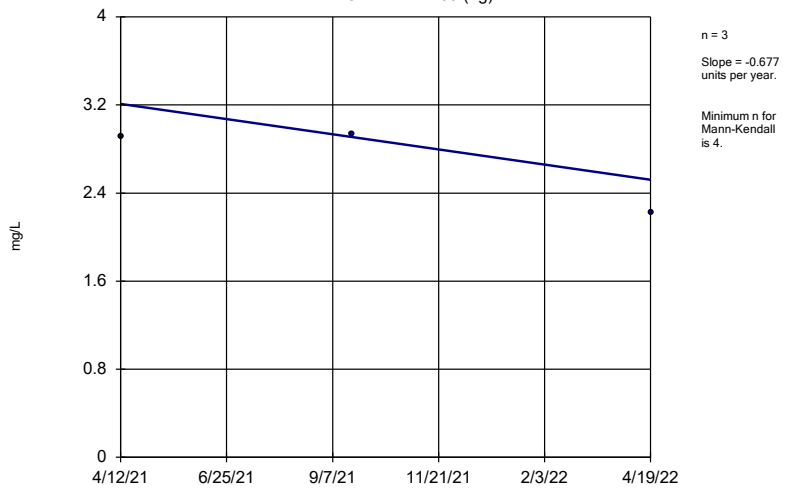
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-39 (bg)



n = 3

Slope = -0.677 units per year.

Minimum n for Mann-Kendall is 4.

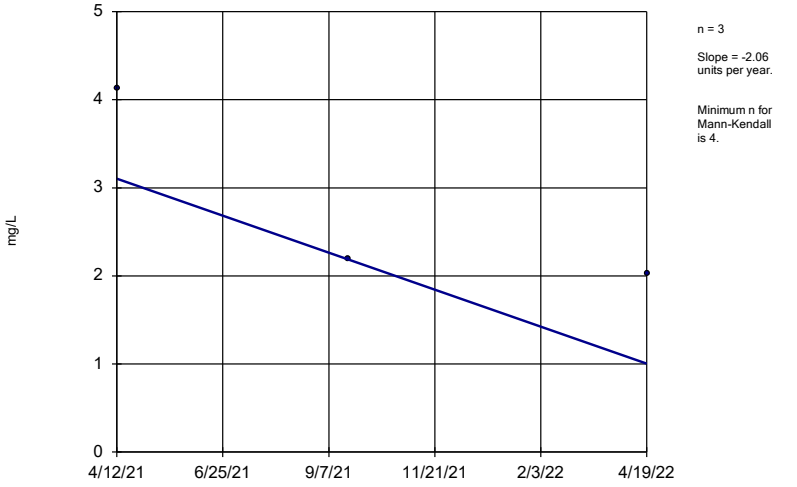
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-40 (bg)



n = 3

Slope = -2.06 units per year.

Minimum n for Mann-Kendall is 4.

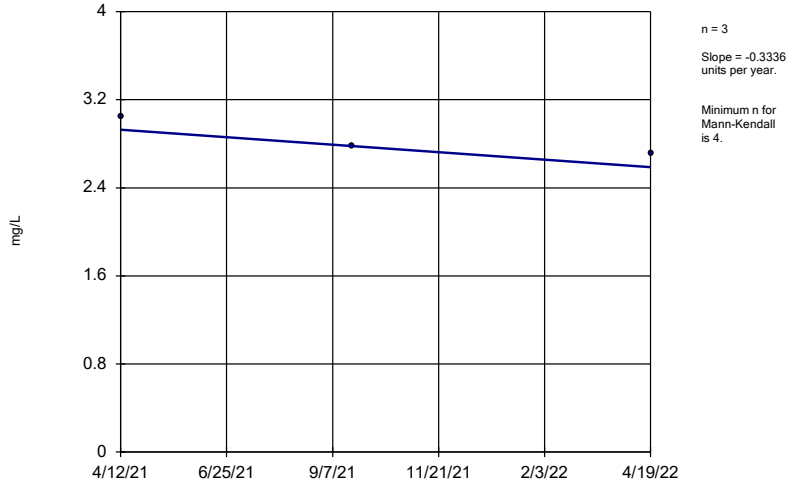
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-41 (bg)



n = 3

Slope = -0.3336 units per year.

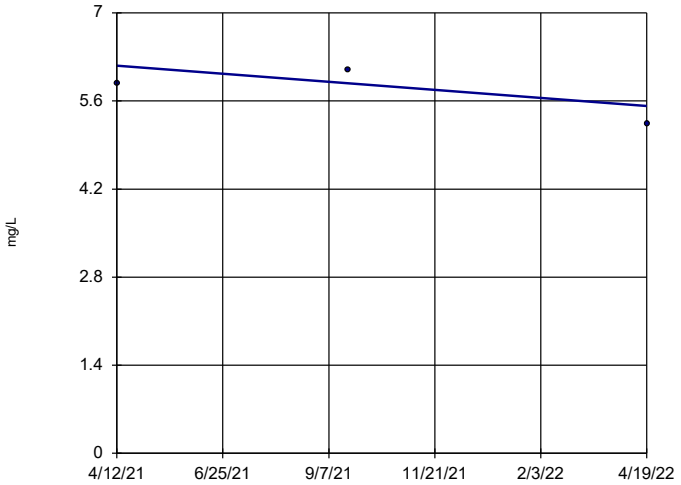
Minimum n for Mann-Kendall is 4.

Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)



n = 3

Slope = -0.628 units per year.

Minimum n for Mann-Kendall is 4.

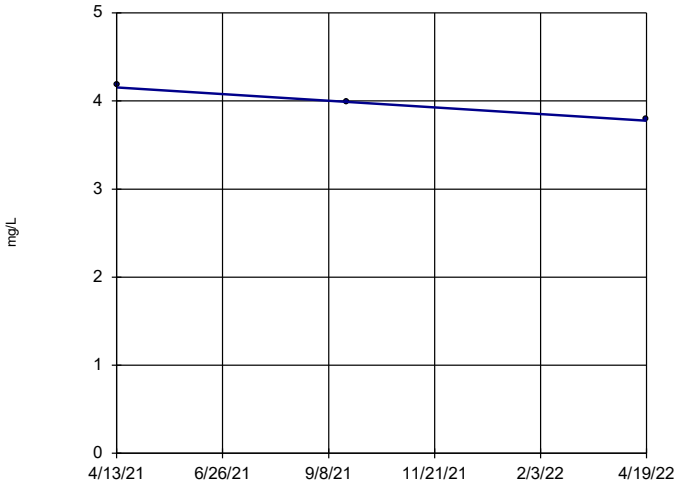
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-42 (bg)



n = 3

Slope = -0.3739 units per year.

Minimum n for Mann-Kendall is 4.

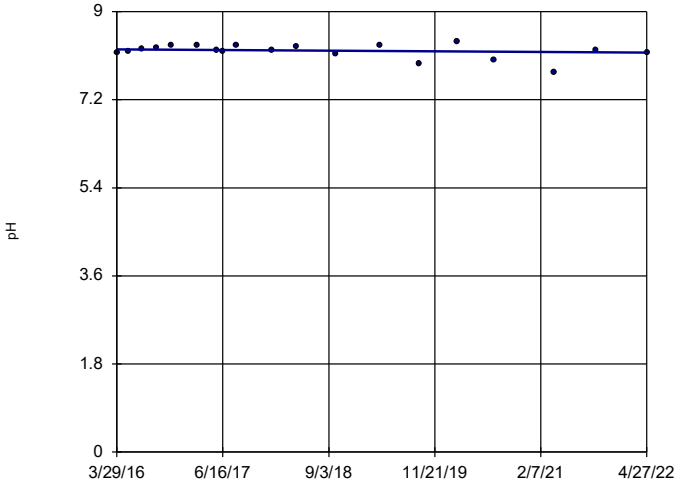
Constituent: Chloride Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-16



n = 19

Slope = -0.01162 units per year.

Mann-Kendall statistic = -27 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

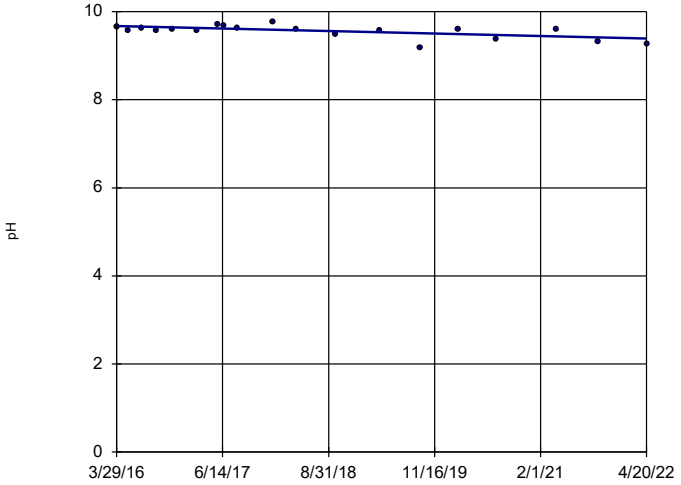
Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-17



n = 19

Slope = -0.04756 units per year.

Mann-Kendall statistic = -63 critical = -74

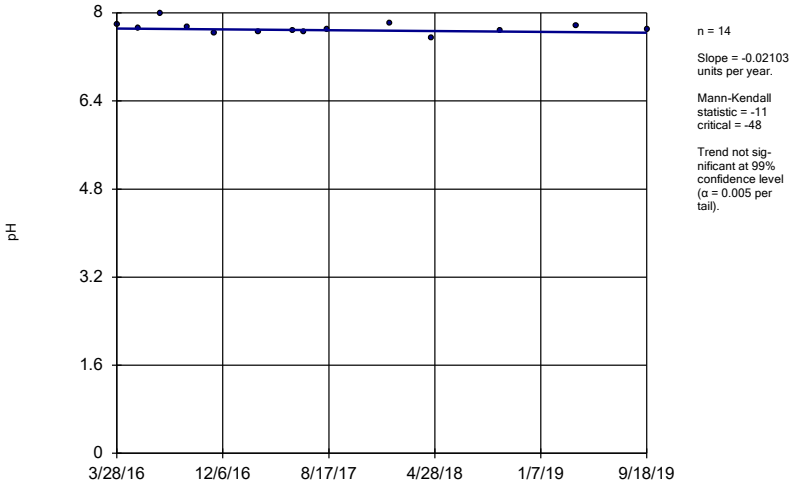
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-2 (bg)



n = 14

Slope = -0.02103 units per year.

Mann-Kendall statistic = -11
critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

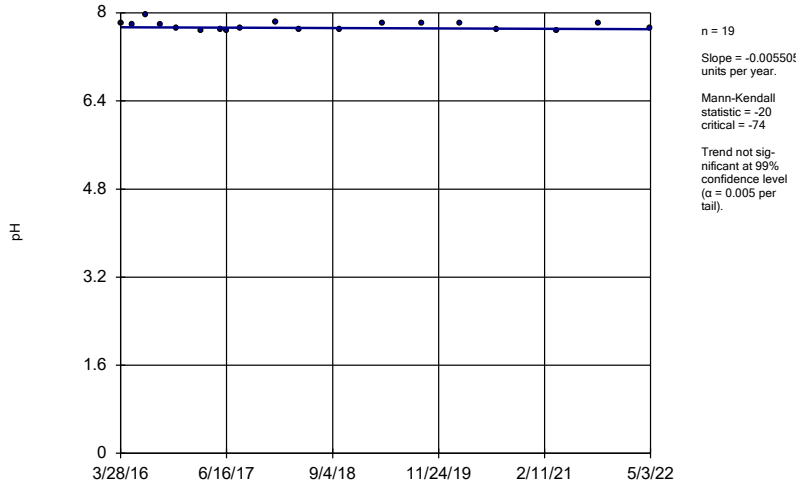
Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-3 (bg)



n = 19

Slope = -0.005505 units per year.

Mann-Kendall statistic = -20
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

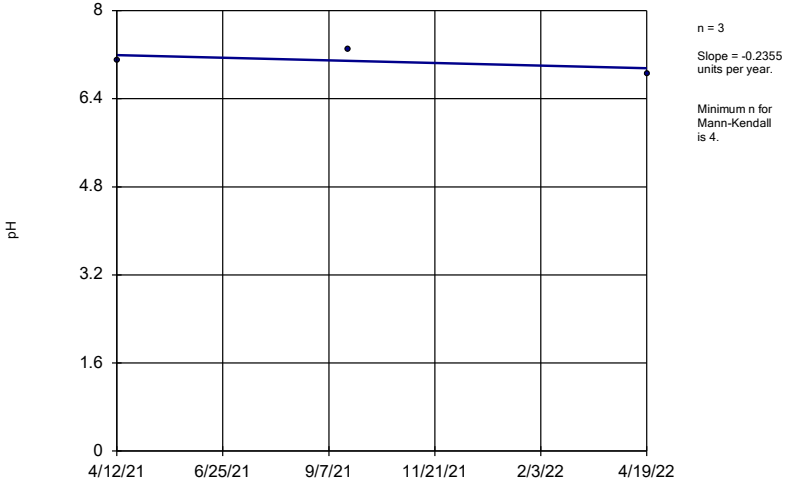
Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-39 (bg)



n = 3

Slope = -0.2355 units per year.

Minimum n for Mann-Kendall is 4.

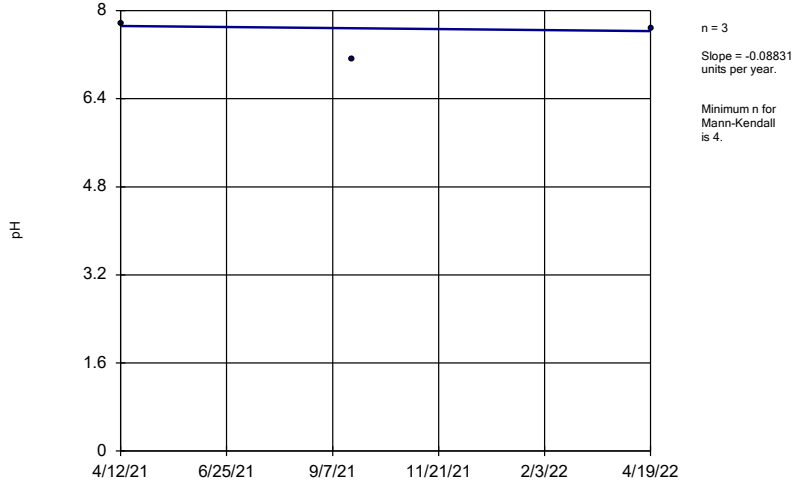
Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-40 (bg)



n = 3

Slope = -0.08831 units per year.

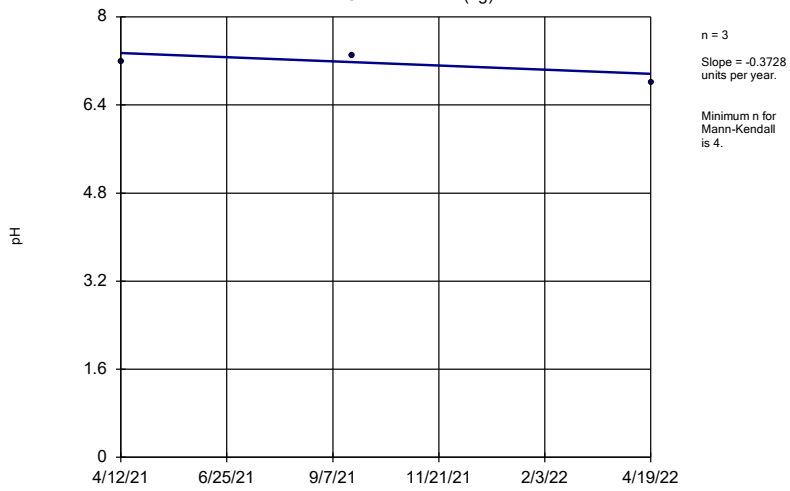
Minimum n for Mann-Kendall is 4.

Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-41 (bg)



n = 3

Slope = -0.3728 units per year.

Minimum n for Mann-Kendall is 4.

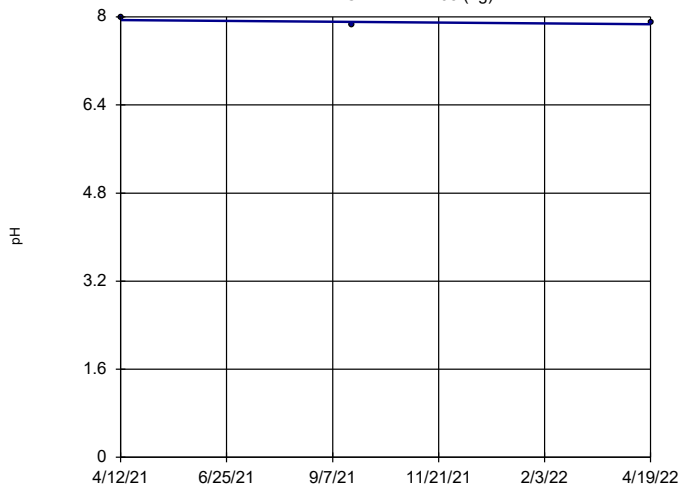
Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-38 (bg)



n = 3

Slope = -0.07849 units per year.

Minimum n for Mann-Kendall is 4.

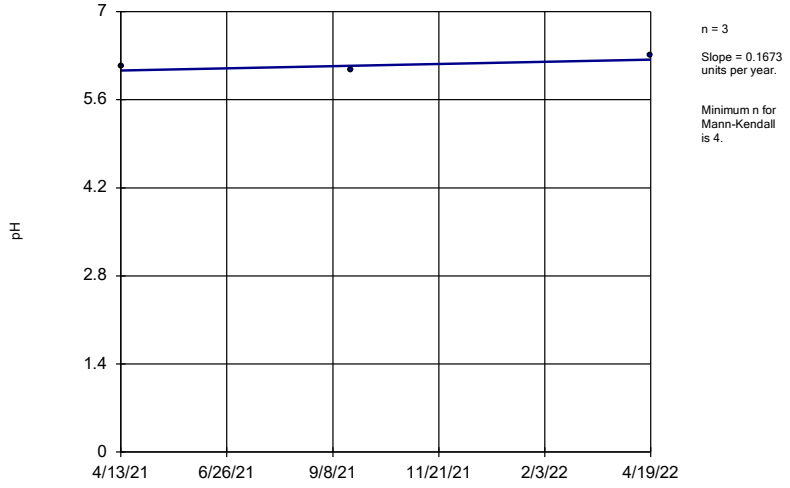
Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-42 (bg)



n = 3

Slope = 0.1673 units per year.

Minimum n for Mann-Kendall is 4.

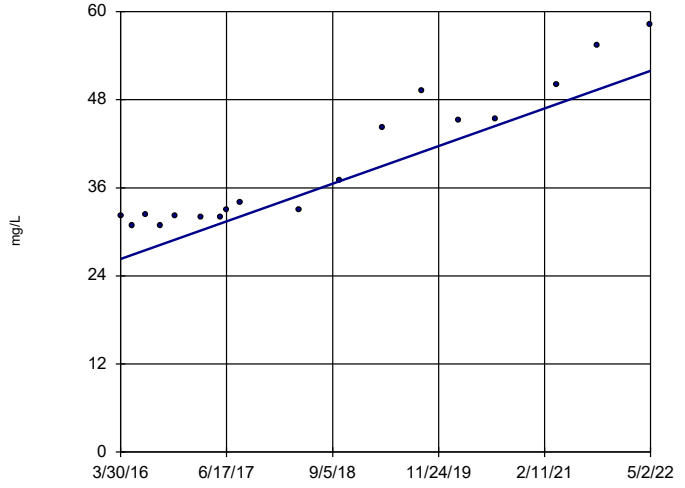
Constituent: pH Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-11



n = 18

Slope = 4.209 units per year.

Mann-Kendall statistic = 123 critical = 68

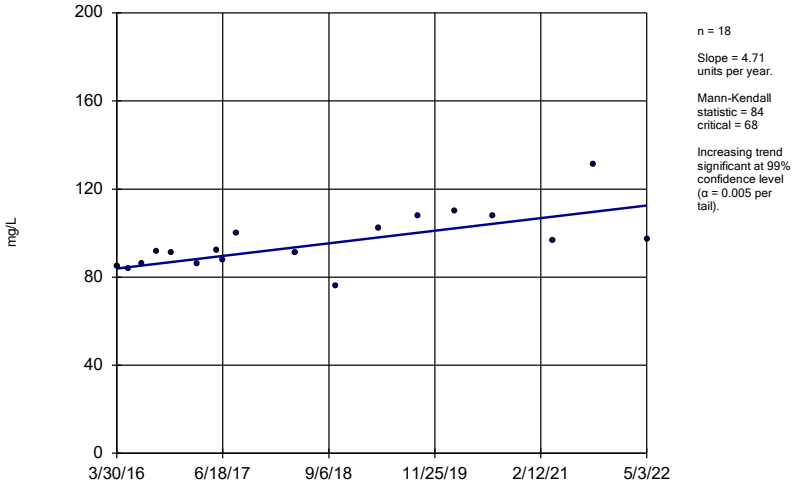
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12



n = 18

Slope = 4.71 units per year.

Mann-Kendall statistic = 84 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

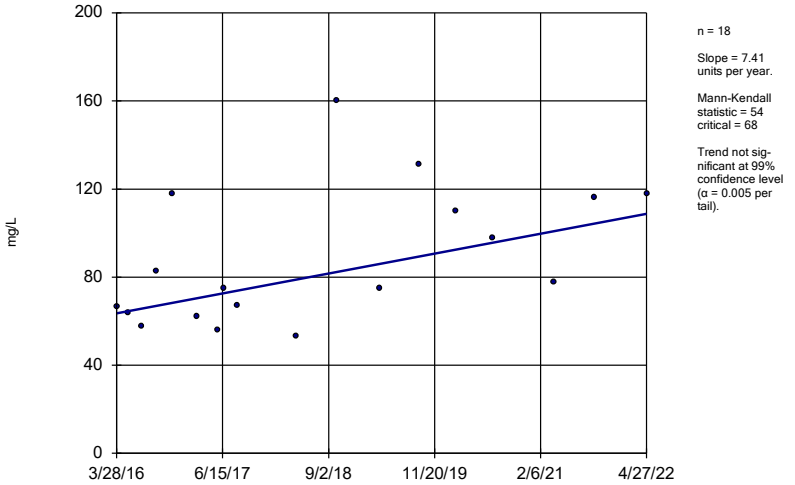
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-14



n = 18

Slope = 7.41 units per year.

Mann-Kendall statistic = 54 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

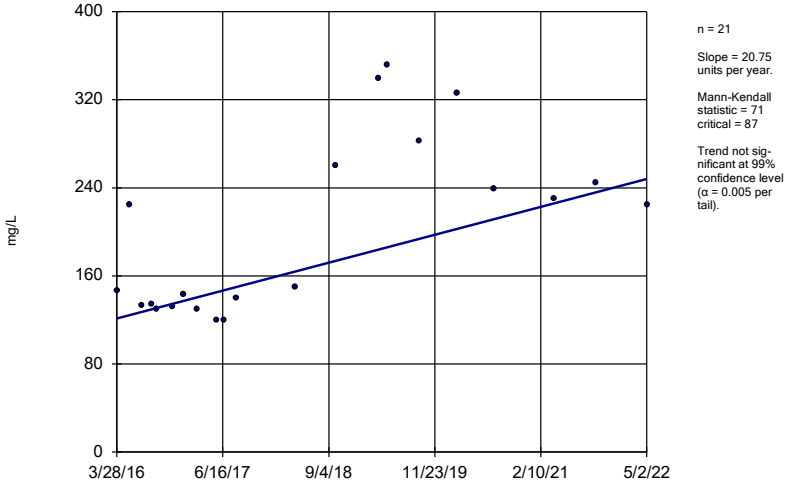
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-15R



n = 21

Slope = 20.75 units per year.

Mann-Kendall statistic = 71 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

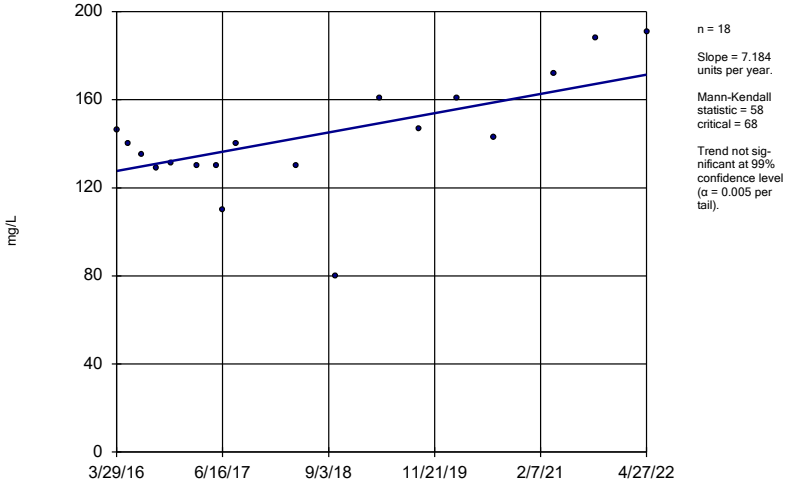
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-16



n = 18

Slope = 7.184 units per year.

Mann-Kendall statistic = 58 critical = 68

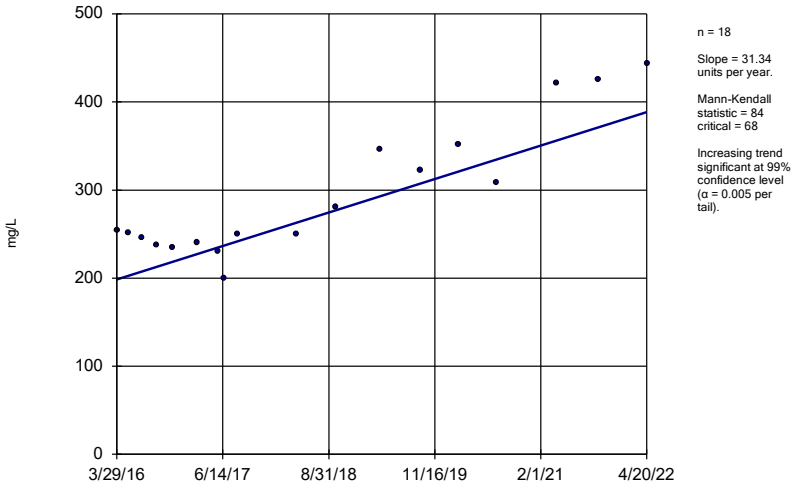
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17



n = 18

Slope = 31.34 units per year.

Mann-Kendall statistic = 84
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

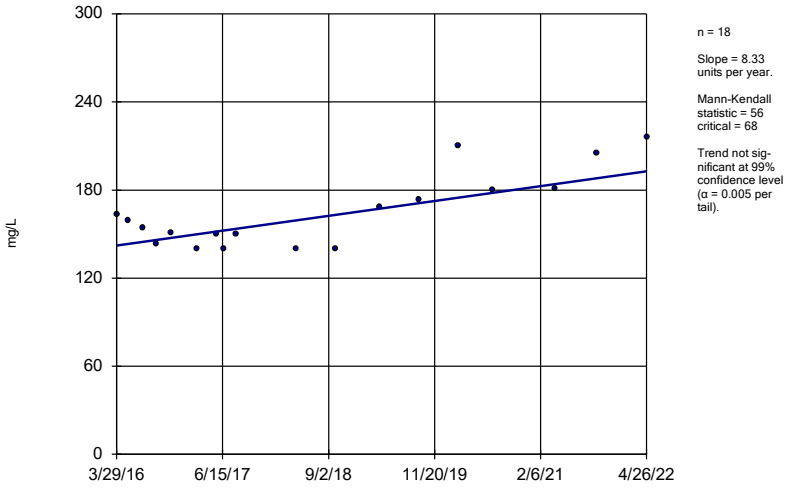
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-18



n = 18

Slope = 8.33 units per year.

Mann-Kendall statistic = 56
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

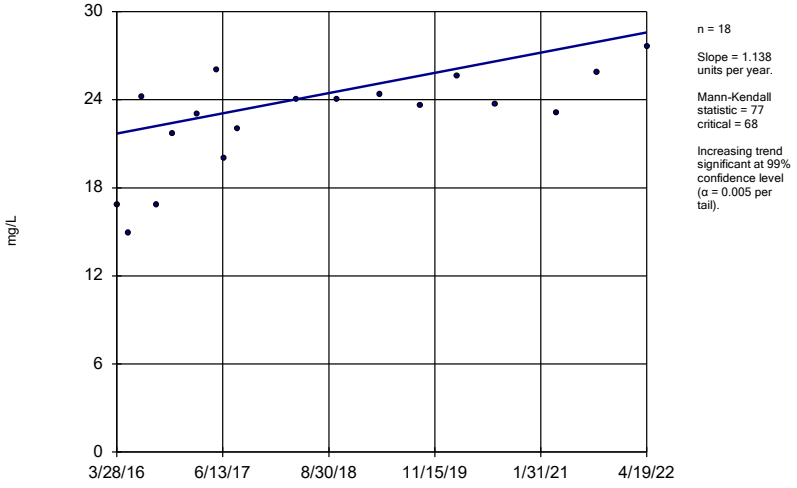
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-19



n = 18

Slope = 1.138 units per year.

Mann-Kendall statistic = 77
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

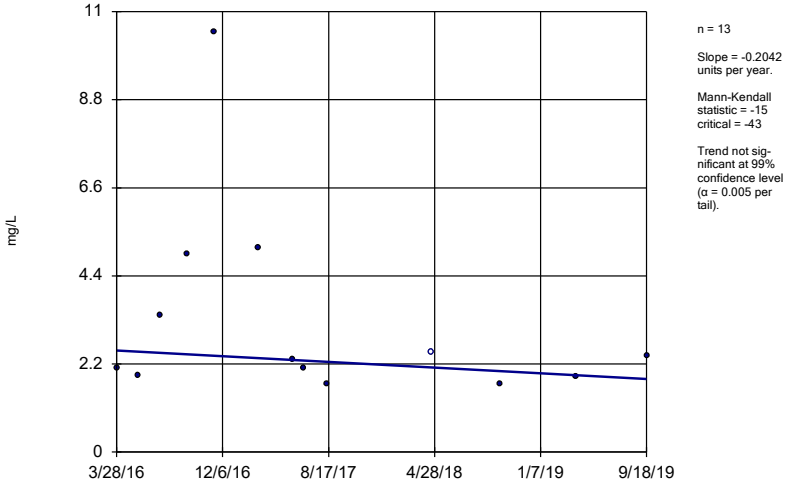
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-2 (bg)



n = 13

Slope = -0.2042 units per year.

Mann-Kendall statistic = -15
critical = -43

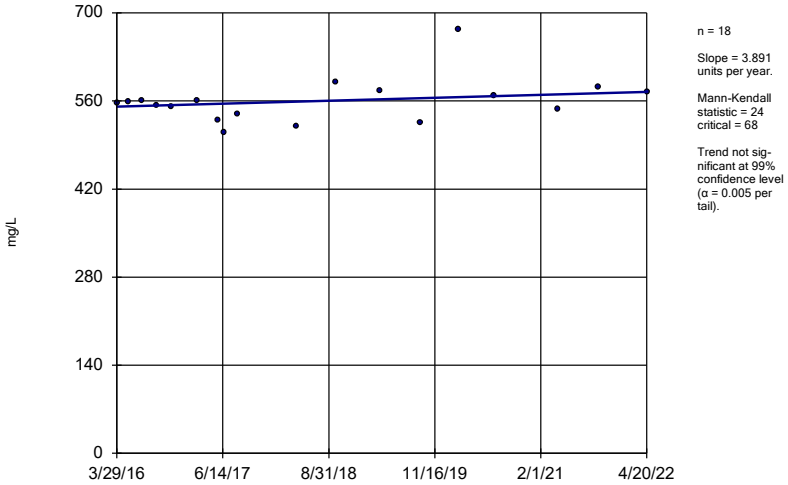
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-20



n = 18

Slope = 3.891 units per year.

Mann-Kendall statistic = 24 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

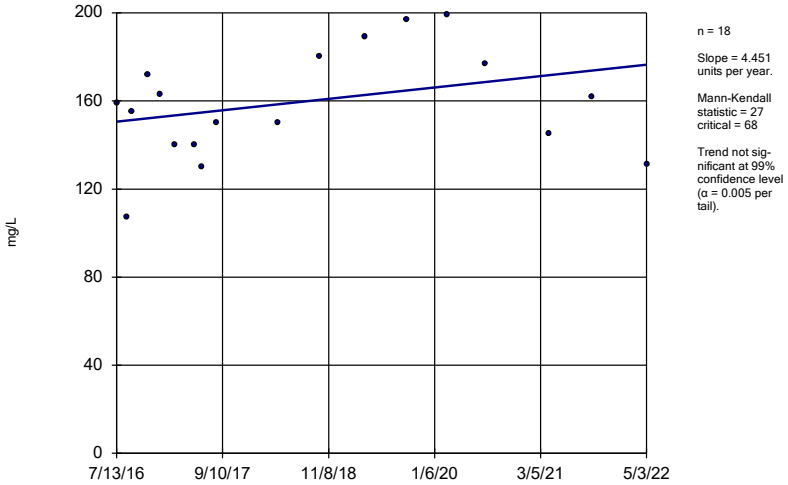
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-21



n = 18

Slope = 4.451 units per year.

Mann-Kendall statistic = 27 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

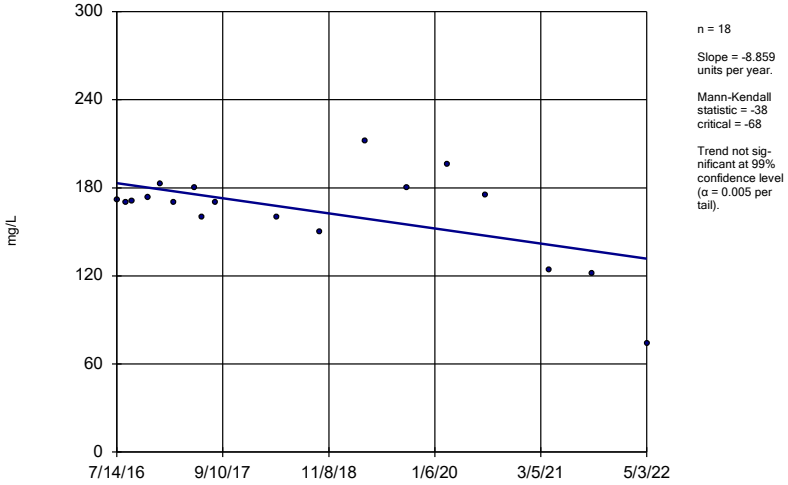
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-22



n = 18

Slope = -8.859 units per year.

Mann-Kendall statistic = -38 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

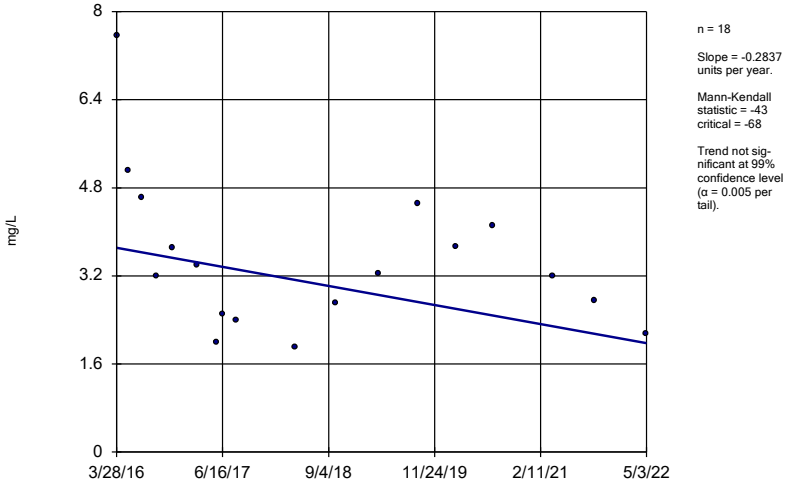
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-3 (bg)



n = 18

Slope = -0.2837 units per year.

Mann-Kendall statistic = -43 critical = -68

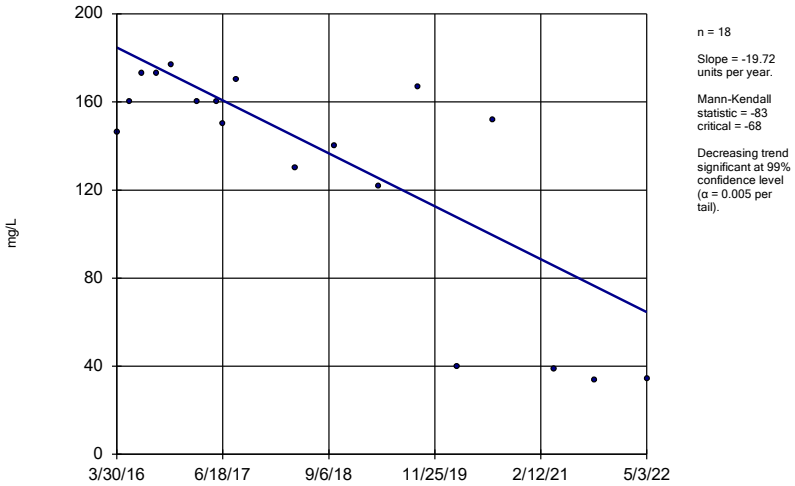
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-5



n = 18

Slope = -19.72 units per year.

Mann-Kendall statistic = -83
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

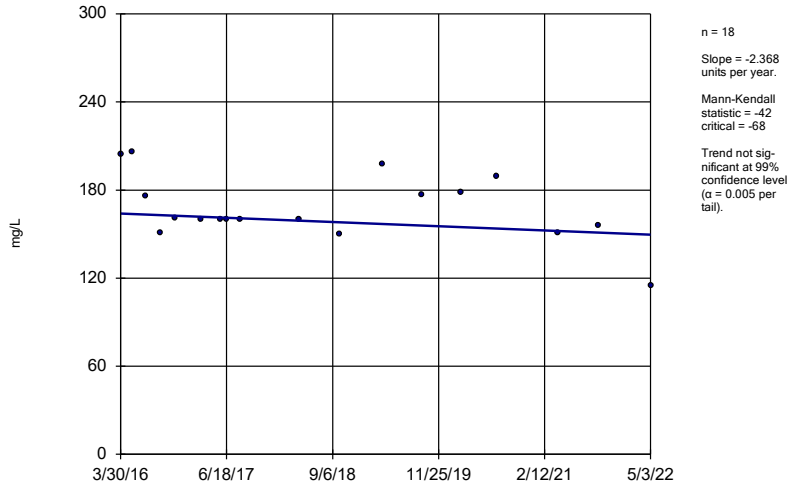
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-6



n = 18

Slope = -2.368 units per year.

Mann-Kendall statistic = -42
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

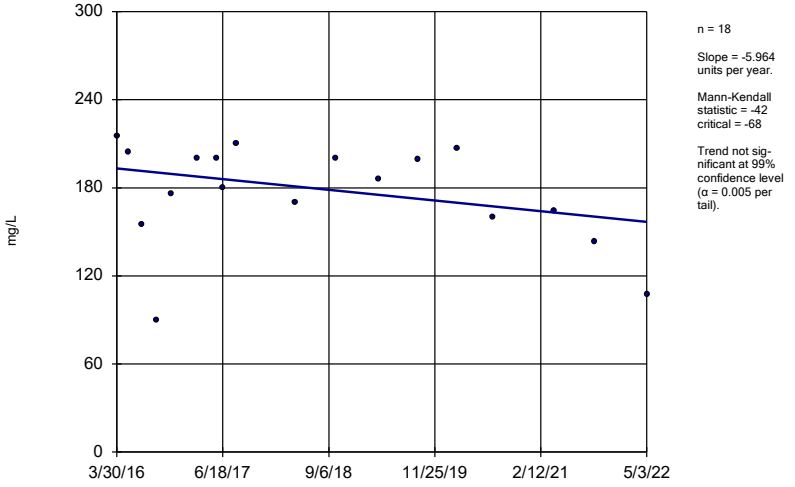
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-7



n = 18

Slope = -5.964 units per year.

Mann-Kendall statistic = -42
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

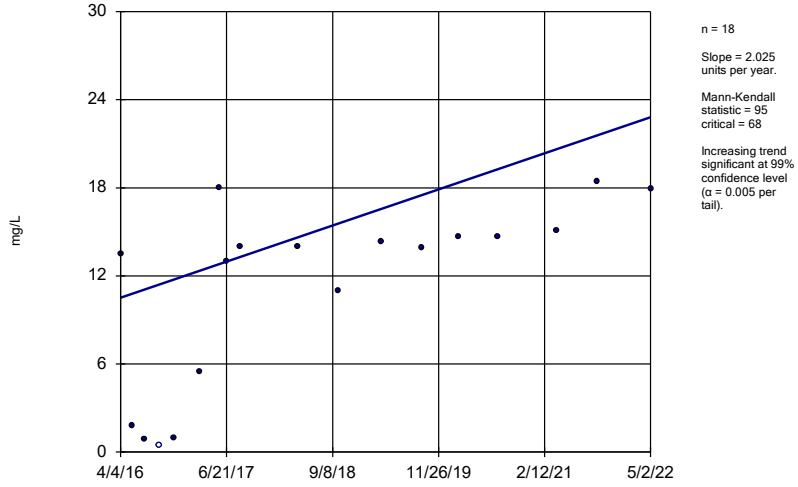
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-9



n = 18

Slope = 2.025 units per year.

Mann-Kendall statistic = 95
critical = 68

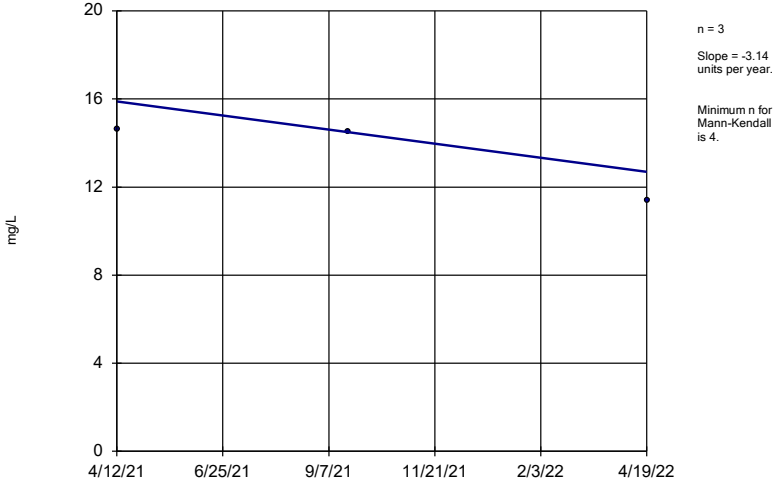
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)



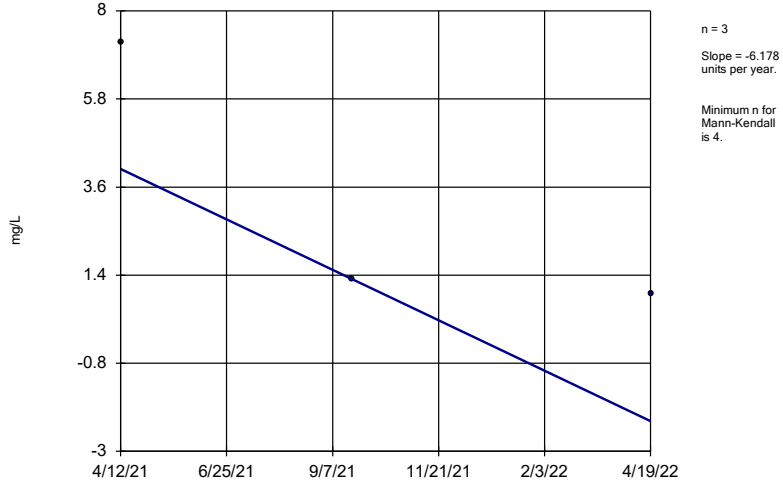
Constituent: Sulfate Analysis Run 7/1/2022 11:05 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-40 (bg)



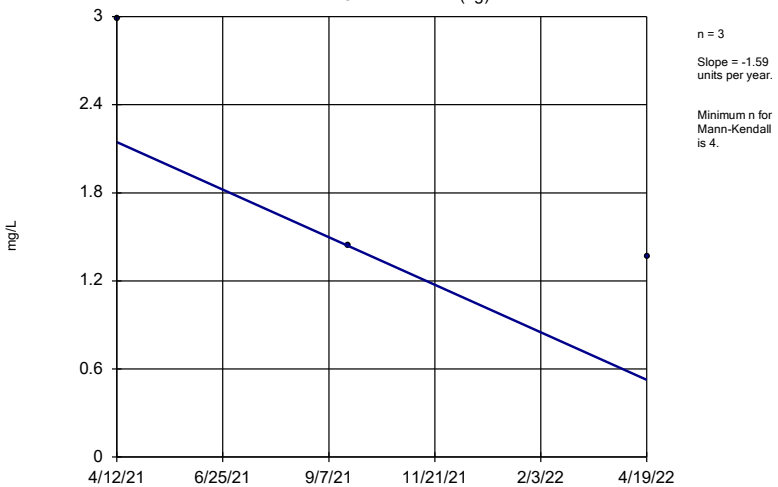
Constituent: Sulfate Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-41 (bg)



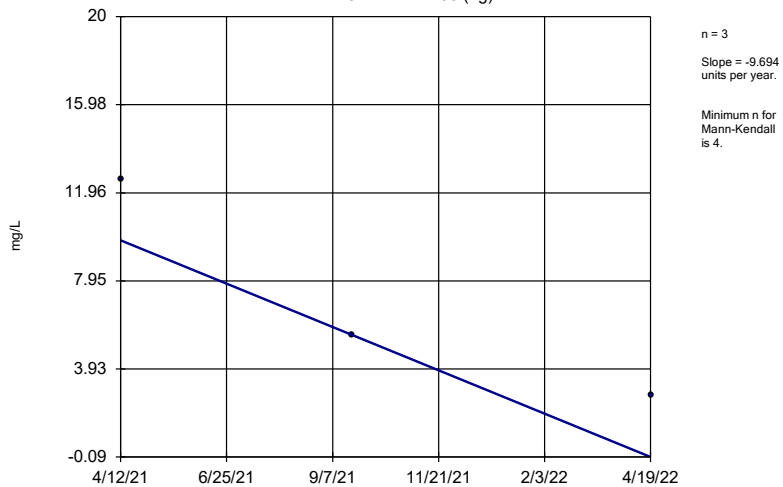
Constituent: Sulfate Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-38 (bg)

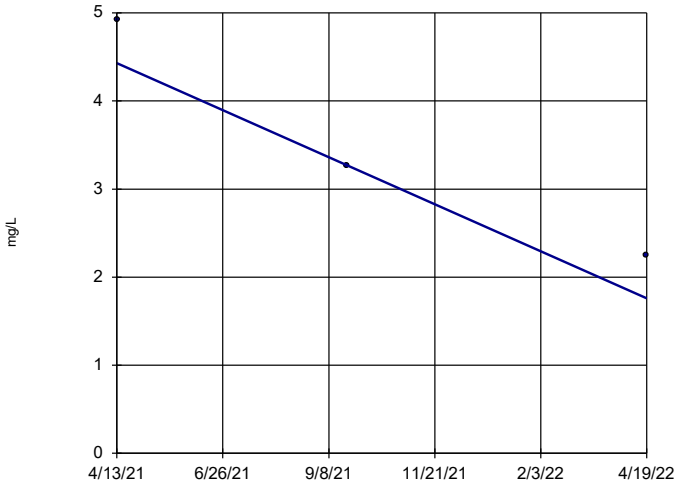


Constituent: Sulfate Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)



n = 3

Slope = -2.627 units per year.

Minimum n for Mann-Kendall is 4.

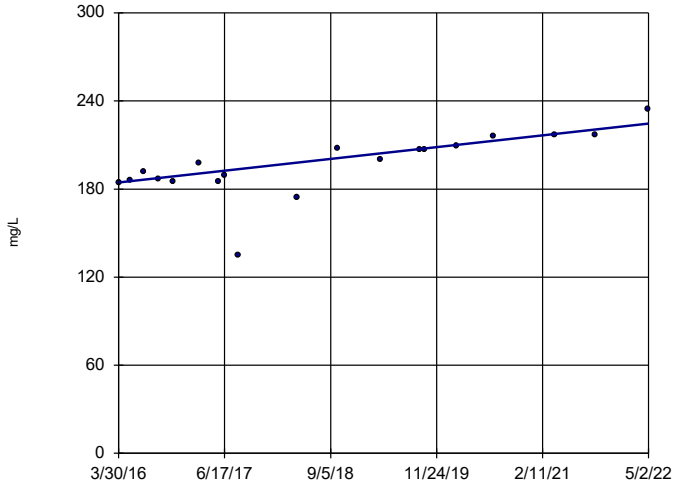
Constituent: Sulfate Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-11



n = 19

Slope = 6.591 units per year.

Mann-Kendall statistic = 110 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

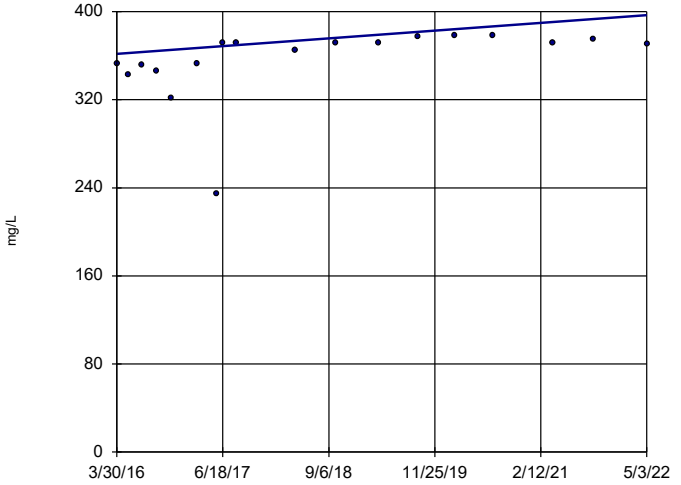
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-12



n = 18

Slope = 5.765 units per year.

Mann-Kendall statistic = 79 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

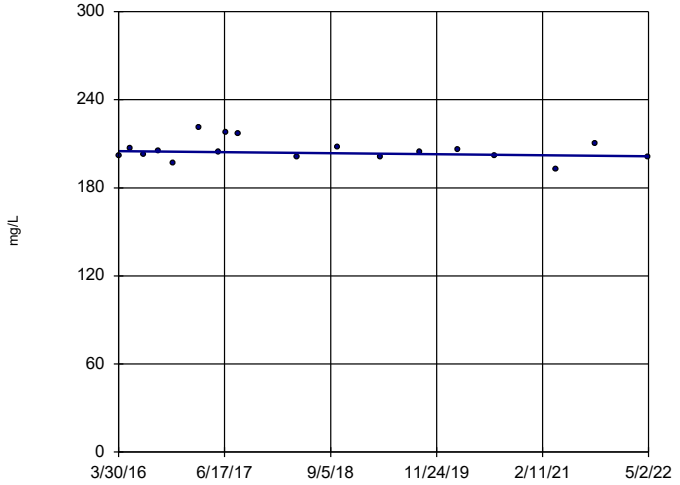
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-13



n = 18

Slope = -0.5668 units per year.

Mann-Kendall statistic = -20 critical = -68

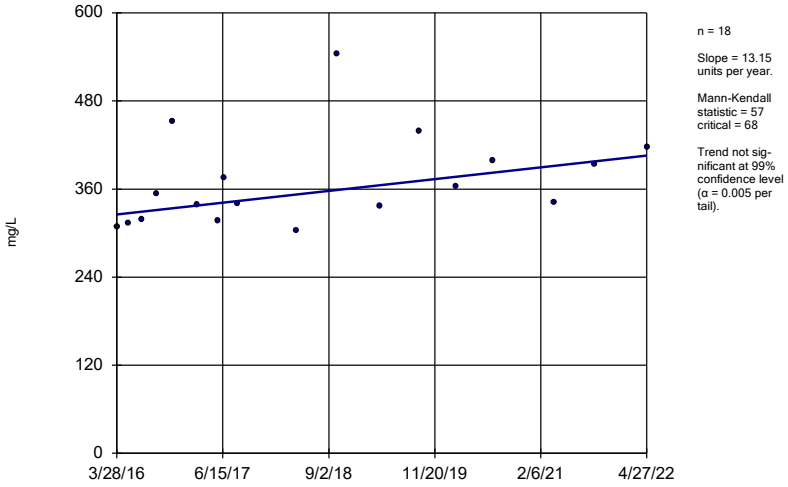
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-14



n = 18

Slope = 13.15 units per year.

Mann-Kendall statistic = 57
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

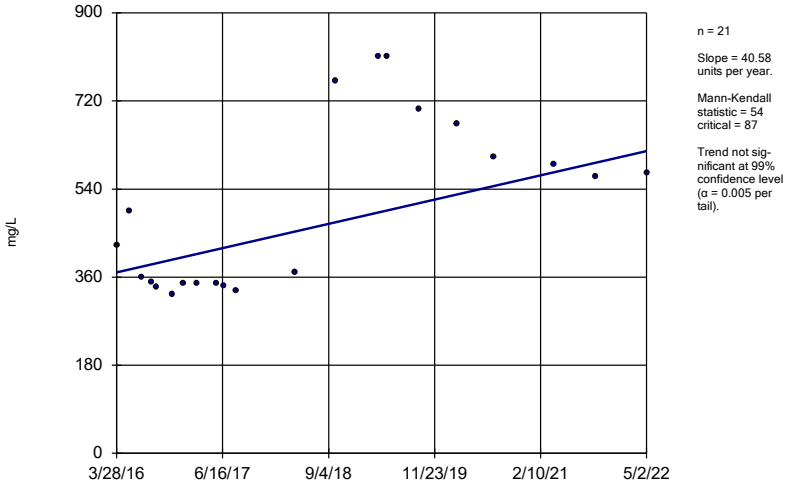
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-15R



n = 21

Slope = 40.58 units per year.

Mann-Kendall statistic = 54
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

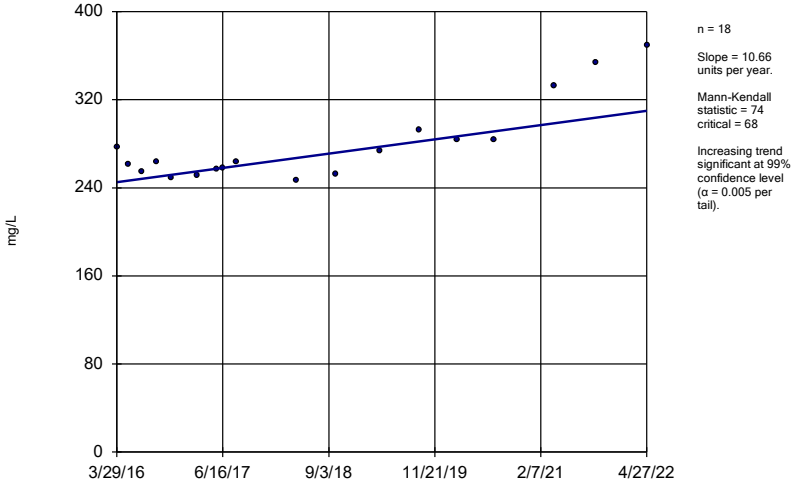
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-16



n = 18

Slope = 10.66 units per year.

Mann-Kendall statistic = 74
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

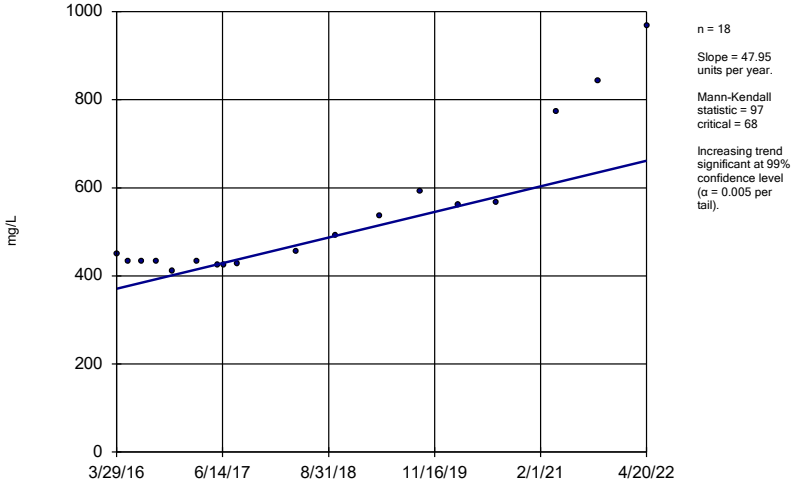
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-17



n = 18

Slope = 47.95 units per year.

Mann-Kendall statistic = 97
critical = 68

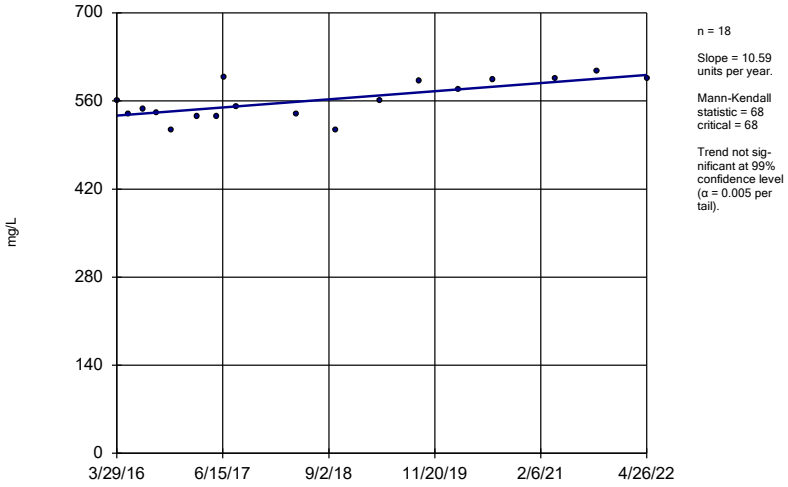
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-18



n = 18

Slope = 10.59 units per year.

Mann-Kendall statistic = 68
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

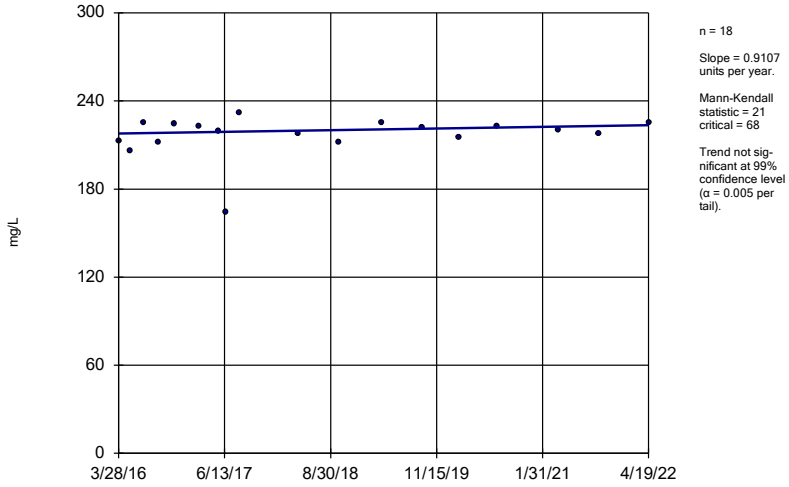
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-19



n = 18

Slope = 0.9107 units per year.

Mann-Kendall statistic = 21
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

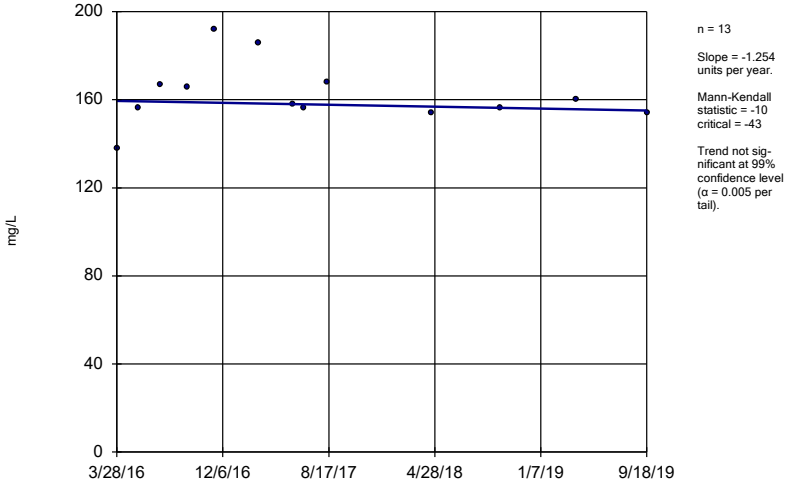
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-2 (bg)



n = 13

Slope = -1.254 units per year.

Mann-Kendall statistic = -10
critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

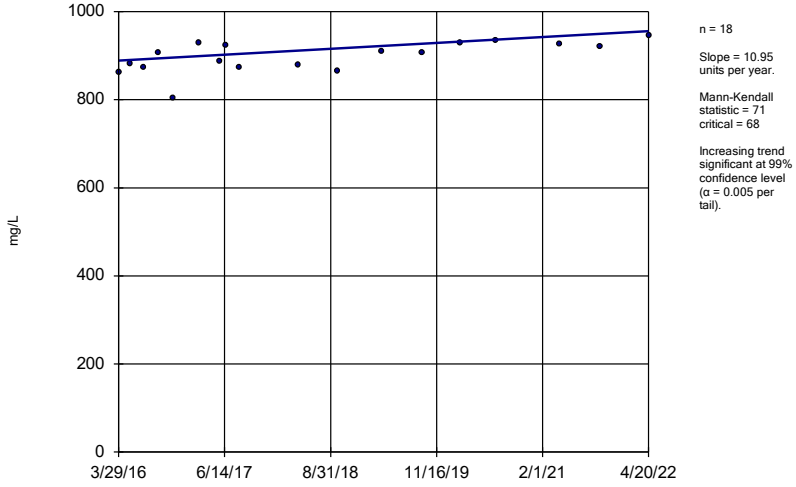
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-20



n = 18

Slope = 10.95 units per year.

Mann-Kendall statistic = 71
critical = 68

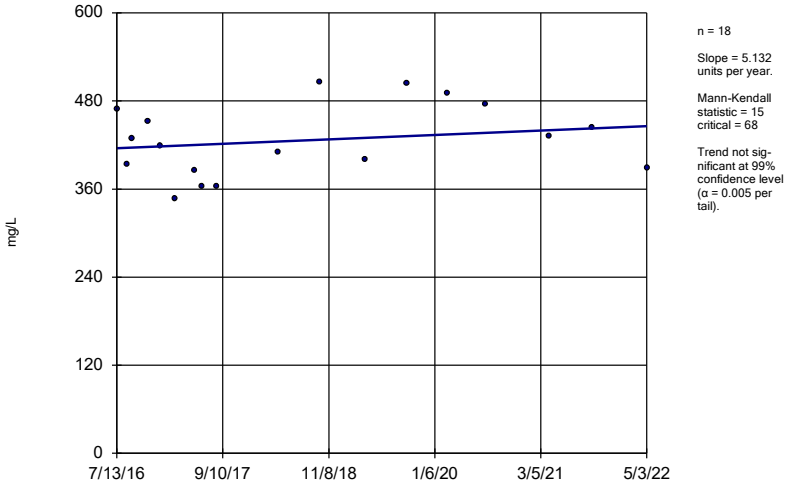
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-21



n = 18

Slope = 5.132 units per year.

Mann-Kendall statistic = 15 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

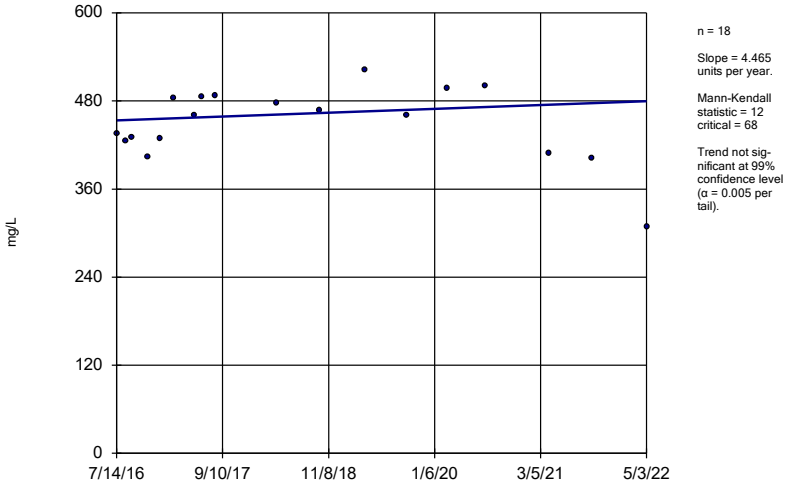
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-22



n = 18

Slope = 4.465 units per year.

Mann-Kendall statistic = 12 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

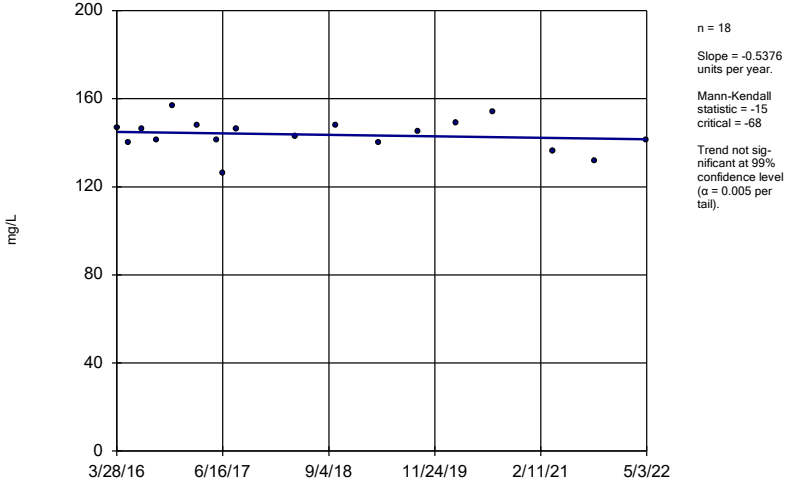
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-3 (bg)



n = 18

Slope = -0.5376 units per year.

Mann-Kendall statistic = -15 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

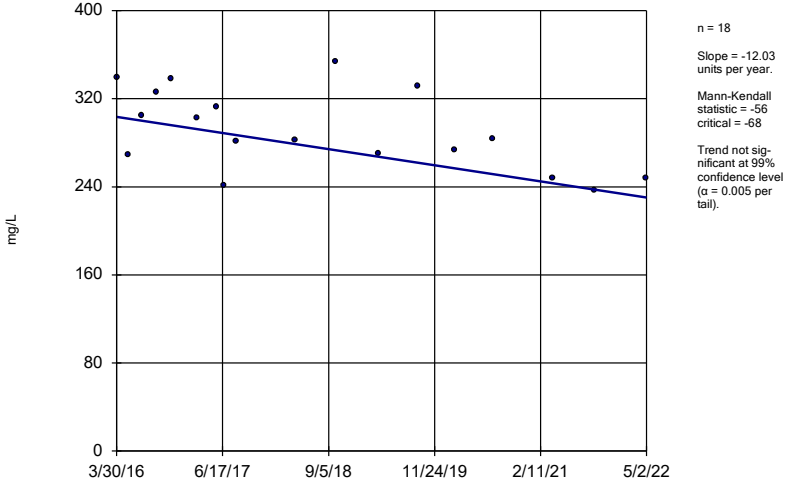
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-4



n = 18

Slope = -12.03 units per year.

Mann-Kendall statistic = -56 critical = -68

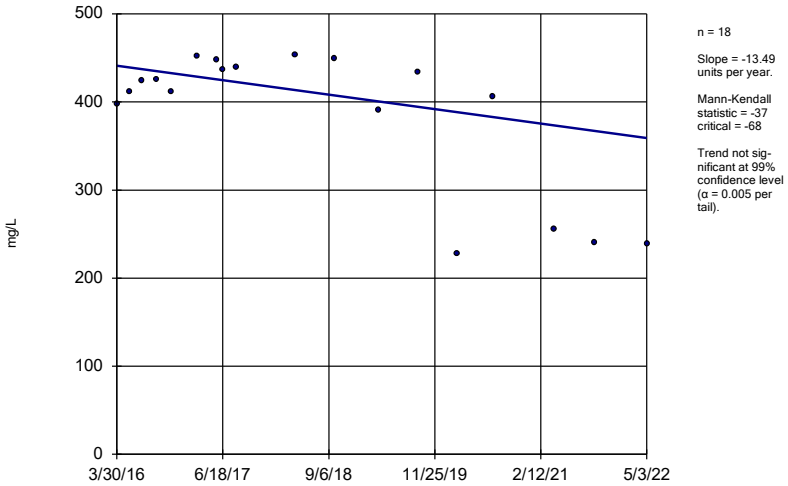
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-5



n = 18

Slope = -13.49 units per year.

Mann-Kendall statistic = -37
critical = -68

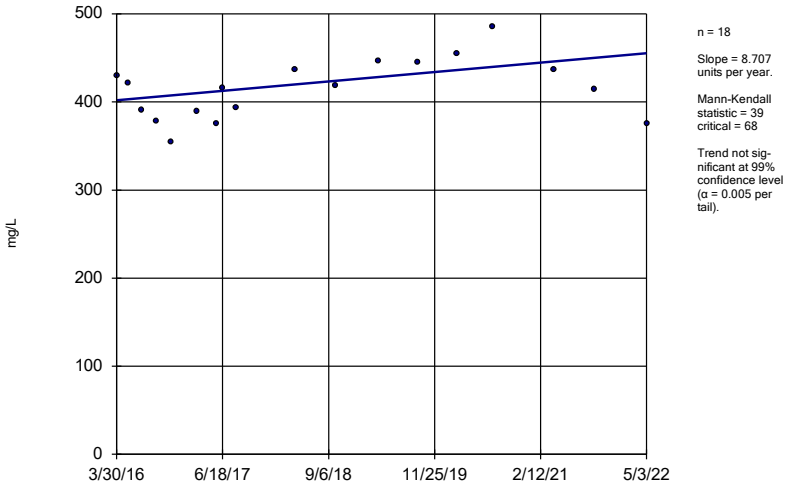
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-6



n = 18

Slope = 8.707 units per year.

Mann-Kendall statistic = 39
critical = 68

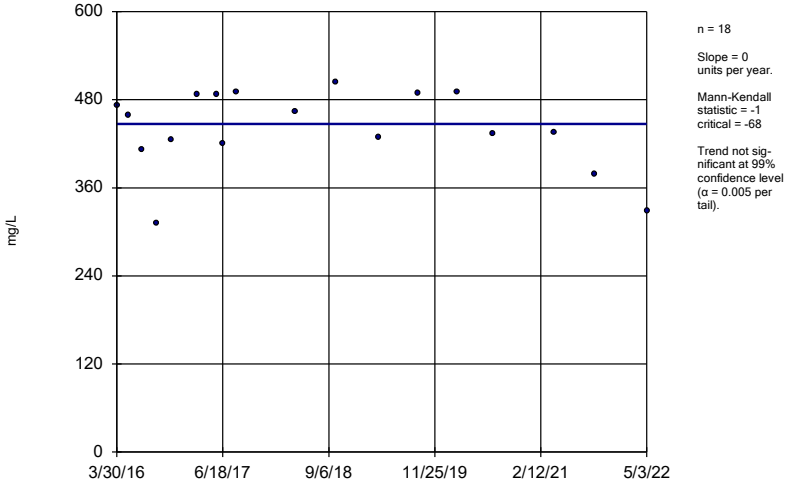
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-7



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -68

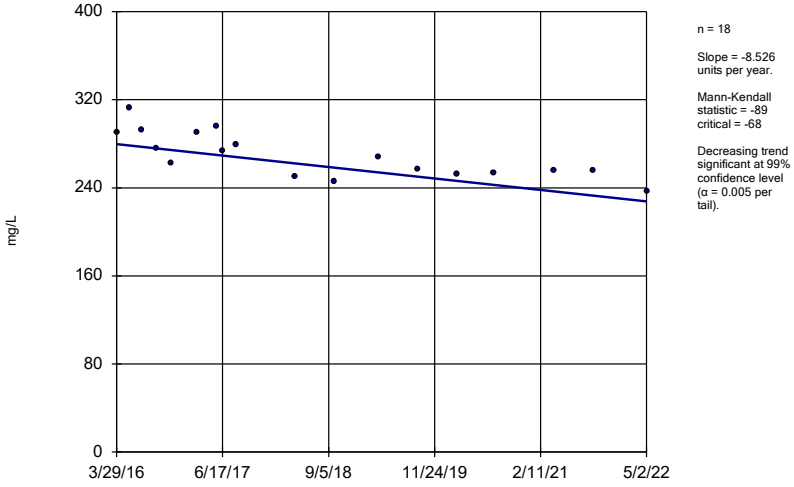
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-8



n = 18

Slope = -8.526 units per year.

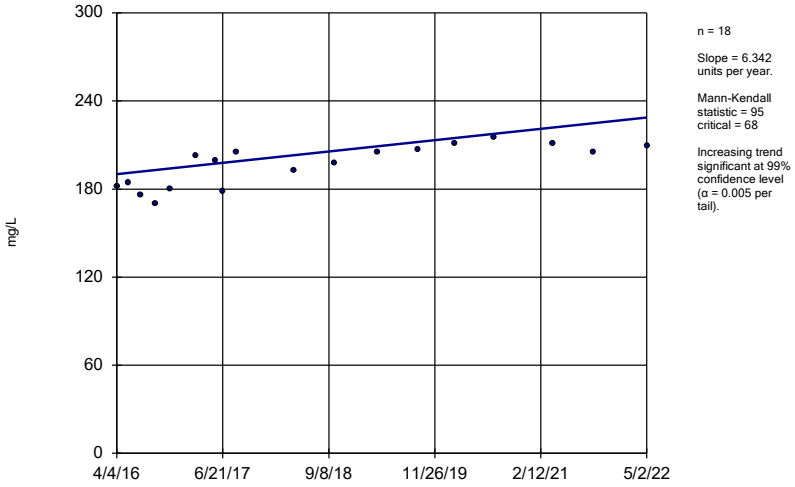
Mann-Kendall statistic = -89
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-9



n = 18

Slope = 6.342 units per year.

Mann-Kendall statistic = 95 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

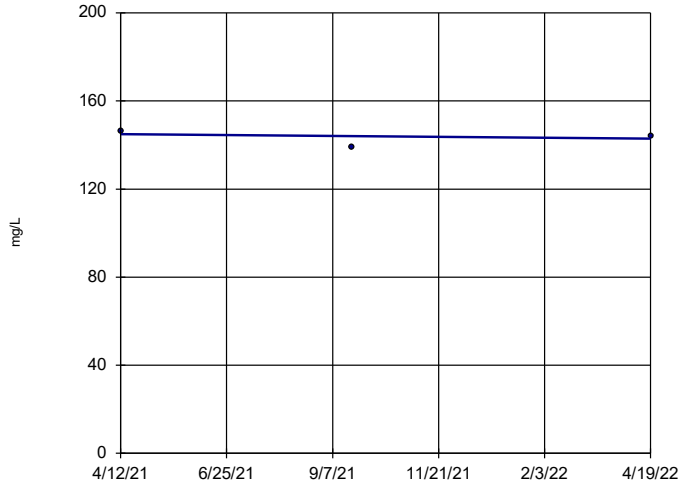
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-39 (bg)



n = 3

Slope = -1.962 units per year.

Minimum n for Mann-Kendall is 4.

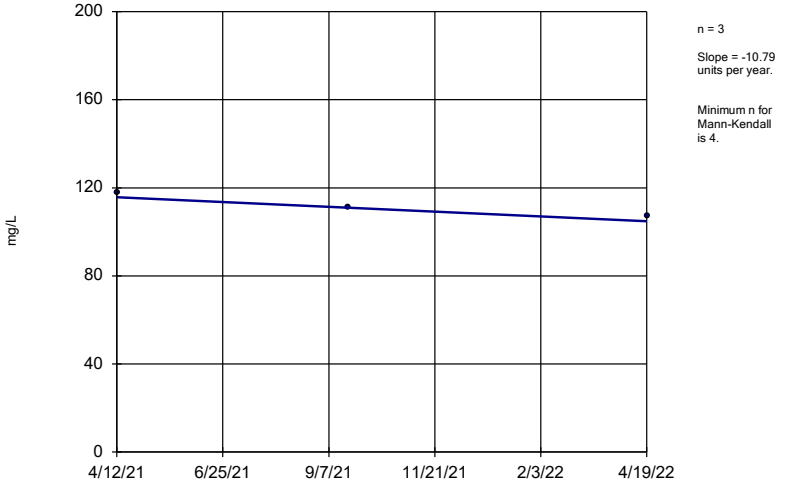
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-40 (bg)



n = 3

Slope = -10.79 units per year.

Minimum n for Mann-Kendall is 4.

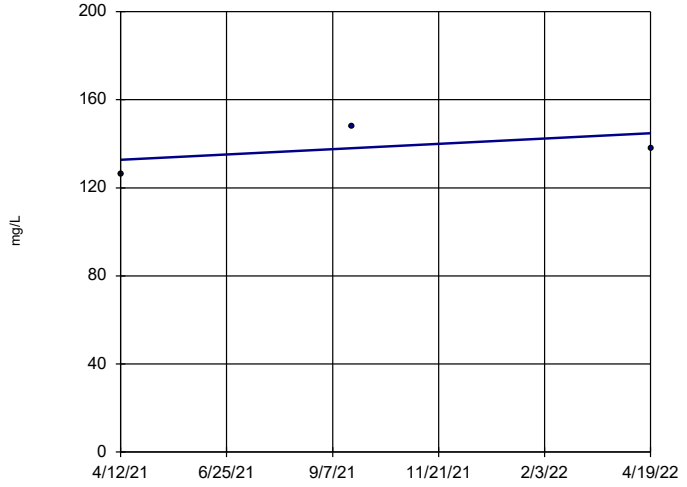
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-41 (bg)



n = 3

Slope = 11.77 units per year.

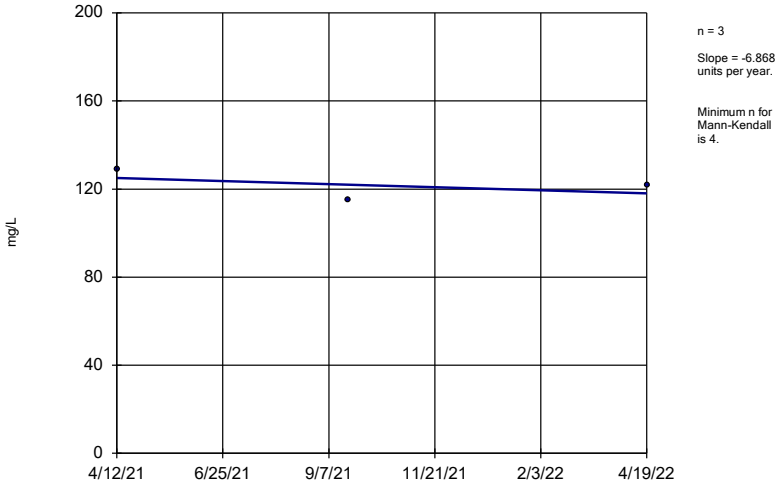
Minimum n for Mann-Kendall is 4.

Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)



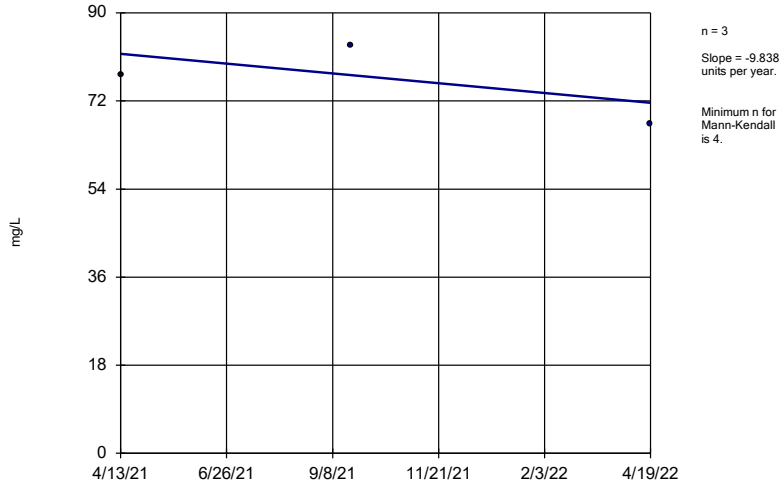
Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.34 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GN-AP-MW-42 (bg)



Constituent: TDS Analysis Run 7/1/2022 11:06 AM View: Appendix III - Trend Tests

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

CLD ¦ w9 C¢

Upper Tolerance Limits - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/6/2022, 6:28 PM

Constituent	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.00102	n/a	n/a	n/a	n/a	40	92.5	n/a	0.1285	NP Inter
Arsenic (mg/L)	0.00105	n/a	n/a	n/a	n/a	40	72.5	n/a	0.1285	NP Inter
Barium (mg/L)	0.0283	n/a	n/a	n/a	n/a	40	0	n/a	0.1285	NP Inter
Beryllium (mg/L)	0.00102	n/a	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter
Cadmium (mg/L)	0.000855	n/a	n/a	n/a	n/a	40	95	n/a	0.1285	NP Inter
Chromium (mg/L)	0.01	n/a	n/a	n/a	n/a	40	70	n/a	0.1285	NP Inter
Cobalt (mg/L)	0.00168	n/a	n/a	n/a	n/a	40	87.5	n/a	0.1285	NP Inter
Combined Radium 226 + 228 (pCi/L)	3	n/a	n/a	n/a	n/a	38	0	n/a	0.1424	NP Inter
Fluoride (mg/L)	0.181	n/a	n/a	n/a	n/a	42	57.14	n/a	0.116	NP Inter
Lead (mg/L)	0.00128	n/a	n/a	n/a	n/a	40	87.5	n/a	0.1285	NP Inter
Lithium (mg/L)	0.02	n/a	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter
Mercury (mg/L)	0.0005	n/a	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter
Molybdenum (mg/L)	0.00856	n/a	n/a	n/a	n/a	40	32.5	n/a	0.1285	NP Inter
Selenium (mg/L)	0.00102	n/a	n/a	n/a	n/a	40	100	n/a	0.1285	NP Inter
Thallium (mg/L)	0.000648	n/a	n/a	n/a	n/a	40	82.5	n/a	0.1285	NP Inter

CLD ¦ w9 D¢

GASTON AP GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.00105	0.01
Barium	mg/L	0.0283	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.000855	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.00168	0.006
Combined Radium-226/228	pCi/L	3	5
Fluoride	mg/L	0.181	4
Lead	mg/L	0.00128	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00856	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.000648	0.002

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.

4. GWPS established during second semi-annual sampling event in 2021.

CLD ¦ w9 I ϕ

Confidence Intervals - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/15/2022, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**GN-AP-MW-16**	**0.1204**	**0.07942**	**0.04**	**Yes**	**8**	**0.09993**	**0.01935**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GN-AP-MW-17**	**1.004**	**0.6676**	**0.04**	**Yes**	**8**	**0.834**	**0.1604**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GN-AP-MW-18**	**0.0509**	**0.04183**	**0.04**	**Yes**	**8**	**0.04641**	**0.004902**	**0**	**None**	**x^5**	**0.01**	**Param.**
Lithium (mg/L)	**GN-AP-MW-20**	**0.1384**	**0.1149**	**0.04**	**Yes**	**8**	**0.1266**	**0.01108**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GN-AP-MW-15R**	**0.3417**	**0.1195**	**0.1**	**Yes**	**8**	**0.2306**	**0.1048**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GN-AP-MW-16**	**0.538**	**0.267**	**0.1**	**Yes**	**8**	**0.3925**	**0.111**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Molybdenum (mg/L)	**GN-AP-MW-17**	**3.31**	**2.193**	**0.1**	**Yes**	**8**	**2.751**	**0.5271**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GN-AP-MW-20**	**0.841**	**0.786**	**0.1**	**Yes**	**8**	**0.8135**	**0.02596**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/15/2022, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-AP-MW-12	0.00102	0.000871	0.006	No	8	0.001001	0.00005268	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-14	0.00102	0.000939	0.006	No	8	0.00101	0.00002864	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-15R	0.00113	0.000998	0.006	No	8	0.001031	0.00004074	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-17	0.001126	0.0005645	0.006	No	8	0.0009485	0.000228	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	GN-AP-MW-19	0.00123	0.00102	0.006	No	8	0.001046	0.00007425	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-6	0.00102	0.000819	0.006	No	8	0.0009949	0.00007106	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-7	0.00102	0.00089	0.006	No	8	0.001004	0.00004596	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-10	0.005	0.00024	0.01	No	8	0.003224	0.002451	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-11	0.005	0.00017	0.01	No	8	0.003198	0.002487	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-12	0.007034	0.002418	0.01	No	8	0.004726	0.002177	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-13	0.005	0.00043	0.01	No	8	0.003326	0.002311	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-14	0.005	0.000441	0.01	No	8	0.002835	0.002322	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-15R	0.00282	0.0005553	0.01	No	8	0.001645	0.00144	12.5	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-16	0.005585	0.004542	0.01	No	8	0.005064	0.0004922	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-17	0.01135	0.009043	0.01	No	8	0.0102	0.001088	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-18	0.0067	0.00265	0.01	No	8	0.003539	0.001366	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-19	0.00361	0.00196	0.01	No	8	0.002505	0.0005844	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-20	0.004285	0.003642	0.01	No	8	0.003964	0.0003032	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-21	0.002368	0.0009454	0.01	No	8	0.001639	0.0007351	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-22	0.005	0.00015	0.01	No	8	0.002724	0.00246	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-4	0.005	0.000142	0.01	No	8	0.003185	0.002505	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-5	0.005	0.000148	0.01	No	8	0.003182	0.002509	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-6	0.005	0.0000955	0.01	No	8	0.003173	0.002521	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-7	0.005	0.00016	0.01	No	8	0.003193	0.002494	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-8	0.005	0.00107	0.01	No	8	0.00183	0.00132	12.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-9	0.003033	0.002225	0.01	No	8	0.002629	0.0003814	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-10	0.01403	0.01265	2	No	8	0.01334	0.0006523	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-11	0.009656	0.008207	2	No	8	0.008931	0.0006833	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-12	0.08062	0.07013	2	No	8	0.07538	0.004949	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-13	0.04239	0.03556	2	No	8	0.03898	0.003225	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-14	0.07667	0.06433	2	No	8	0.0705	0.005823	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-15R	0.134	0.0541	2	No	8	0.07448	0.02577	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-AP-MW-16	0.0482	0.0312	2	No	8	0.0397	0.008018	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-17	0.12	0.0898	2	No	8	0.1095	0.01175	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-AP-MW-18	0.05255	0.04483	2	No	8	0.04869	0.003643	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-19	0.01949	0.01463	2	No	8	0.01706	0.002292	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-20	0.06302	0.0573	2	No	8	0.06016	0.002698	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-21	0.04481	0.02179	2	No	8	0.0333	0.01086	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-22	0.04594	0.03194	2	No	8	0.03894	0.006606	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-4	0.02953	0.01409	2	No	8	0.02181	0.007285	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-5	0.03468	0.02337	2	No	8	0.02903	0.005333	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-6	0.02547	0.02058	2	No	8	0.02303	0.002311	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-7	0.02763	0.02122	2	No	8	0.02443	0.003026	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-8	0.0205	0.017	2	No	8	0.01875	0.001649	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-9	0.1171	0.1047	2	No	8	0.1109	0.005866	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-AP-MW-16	0.0002	0.00008	0.005	No	8	0.0001725	0.00005122	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GN-AP-MW-17	0.00051	0.0002	0.005	No	8	0.0003515	0.0001371	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	GN-AP-MW-20	0.0002	0.00008	0.005	No	8	0.0001666	0.00004828	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-10	0.00102	0.00025	0.1	No	8	0.0007356	0.0003925	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-11	0.00102	0.00065	0.1	No	8	0.0009266	0.0001483	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-12	0.00102	0.000278	0.1	No	8	0.0008485	0.000319	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-13	0.00102	0.00027	0.1	No	8	0.0007554	0.0003659	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-14	0.00102	0.000234	0.1	No	8	0.0007355	0.0003931	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-15R	0.00102	0.00027	0.1	No	8	0.0008071	0.0003302	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-16	0.00102	0.00021	0.1	No	8	0.0007436	0.0003829	62.5	None	No	0.004	NP (NDs)

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/15/2022, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GN-AP-MW-17	0.00102	0.00028	0.1	No	8	0.0007621	0.0003568	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-18	0.00102	0.00024	0.1	No	8	0.0007455	0.0003797	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-19	0.00102	0.00024	0.1	No	8	0.0007445	0.0003808	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-20	0.00186	0.00029	0.1	No	8	0.0009537	0.00048	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-21	0.00102	0.00032	0.1	No	8	0.0008512	0.0003127	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-22	0.00102	0.00026	0.1	No	8	0.0007471	0.0003769	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-4	0.00102	0.00074	0.1	No	8	0.0009461	0.0001115	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-5	0.00102	0.000278	0.1	No	8	0.0007585	0.0003616	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-6	0.00102	0.000259	0.1	No	8	0.0007511	0.0003719	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-7	0.00102	0.00035	0.1	No	8	0.0007907	0.0003196	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-8	0.00102	0.00031	0.1	No	8	0.0007566	0.0003636	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-9	0.00102	0.00029	0.1	No	8	0.0007506	0.0003719	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-12	0.00022	0.000113	0.006	No	8	0.0001866	0.0000341	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-13	0.0002	0.00014	0.006	No	8	0.0001852	0.00002732	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-15R	0.0004	0.0002	0.006	No	8	0.0002527	0.00008084	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-16	0.00095	0.0002	0.006	No	8	0.0004161	0.000309	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-18	0.0016	0.0002	0.006	No	8	0.0005691	0.0005747	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-19	0.0002	0.0000907	0.006	No	8	0.0001713	0.00004532	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-21	0.00116	0.0002	0.006	No	8	0.0003467	0.0003341	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-22	0.000333	0.00015	0.006	No	8	0.0002241	0.00006283	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-5	0.0002	0.00009	0.006	No	8	0.0001733	0.00004951	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-8	0.0002	0.0000945	0.006	No	8	0.0001868	0.0000373	87.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-10	0.6563	0.2122	5	No	8	0.4343	0.2095	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-11	0.586	0.1091	5	No	8	0.3475	0.225	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-12	1.633	0.8892	5	No	8	1.261	0.3509	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-13	1.005	0.5371	5	No	8	0.7711	0.2208	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-14	1.135	0.2784	5	No	8	0.7068	0.4041	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-15R	1.72	0.7662	5	No	8	1.232	0.4957	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-16	4.393	3.019	5	No	8	3.706	0.6482	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-17	1.776	0.7191	5	No	8	1.247	0.4984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-18	2.012	1.168	5	No	8	1.59	0.3983	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-19	1.226	0.2377	5	No	8	0.7316	0.466	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	15.7	1.49	5	No	8	13.27	4.875	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-21	0.9727	0.1133	5	No	8	0.543	0.4054	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-22	0.7609	0.2923	5	No	8	0.5266	0.2211	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-4	1.024	0.351	5	No	8	0.6878	0.3177	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-5	1.257	0.392	5	No	8	0.8246	0.4081	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-6	0.6316	0.3009	5	No	8	0.4663	0.156	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-7	0.8123	0.3574	5	No	8	0.5849	0.2146	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-8	0.6448	0.09974	5	No	8	0.3723	0.2571	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-9	1.037	0.2531	5	No	8	0.6303	0.3677	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-10	0.125	0.04	4	No	8	0.0923	0.03713	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-11	0.125	0.04	4	No	8	0.09284	0.0365	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-12	0.08041	0.04475	4	No	8	0.08599	0.03529	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-13	0.125	0.05	4	No	8	0.09459	0.03177	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-14	0.1358	0.08364	4	No	8	0.1097	0.02459	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-15R	0.1079	0.0798	4	No	8	0.09388	0.01328	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-16	0.1526	0.1008	4	No	8	0.1267	0.02447	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-17	0.2249	0.1528	4	No	8	0.1889	0.03401	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-18	0.125	0.0551	4	No	8	0.08121	0.02833	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-19	0.125	0.05	4	No	8	0.0809	0.03227	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-20	0.0753	0.05269	4	No	8	0.08681	0.03297	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-21	0.125	0.07	4	No	8	0.0957	0.02506	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-22	0.1053	0.06099	4	No	8	0.08316	0.02092	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-4	0.125	0.0506	4	No	8	0.1038	0.03068	62.5	None	No	0.004	NP (NDs)

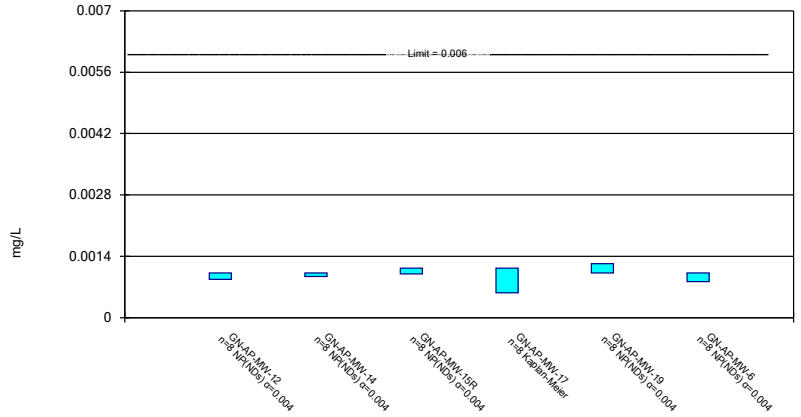
Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 7/15/2022, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GN-AP-MW-5	0.1031	0.04772	4	No	8	0.07539	0.02611	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-6	0.085	0.05316	4	No	8	0.09005	0.0316	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-7	0.125	0.05	4	No	8	0.0776	0.03186	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-8	0.1238	0.0846	4	No	8	0.1042	0.0185	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-9	0.1621	0.1187	4	No	8	0.1404	0.02049	0	None	No	0.01	Param.
Lead (mg/L)	GN-AP-MW-13	0.0002	0.000106	0.015	No	8	0.0001882	0.00003323	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-19	0.0002	0.00019	0.015	No	8	0.0001987	0.000003536	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-5	0.0002	0.0001	0.015	No	8	0.0001675	0.00004652	62.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-AP-MW-15R	0.1607	0.02488	0.04	No	8	0.0928	0.06407	0	None	No	0.01	Param.
Lithium (mg/L)	**GN-AP-MW-16**	**0.1204**	**0.07942**	**0.04**	**Yes**	**8**	**0.09993**	**0.01935**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GN-AP-MW-17**	**1.004**	**0.6676**	**0.04**	**Yes**	**8**	**0.834**	**0.1604**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GN-AP-MW-18**	**0.0509**	**0.04183**	**0.04**	**Yes**	**8**	**0.04641**	**0.004902**	**0**	**None**	**x^5**	**0.01**	**Param.**
Lithium (mg/L)	**GN-AP-MW-20**	**0.1384**	**0.1149**	**0.04**	**Yes**	**8**	**0.1266**	**0.01108**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	GN-AP-MW-5	0.04017	0.007015	0.04	No	8	0.02626	0.01472	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-6	0.02	0.0178	0.04	No	8	0.01972	0.0007778	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-10	0.01	0.00018	0.1	No	8	0.00633	0.005065	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-11	0.01	0.00026	0.1	No	8	0.006371	0.005008	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-12	0.01	0.0003	0.1	No	8	0.006374	0.005004	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-13	0.01	0.0003	0.1	No	8	0.006367	0.005014	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-14	0.01	0.000298	0.1	No	8	0.006417	0.004945	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	**GN-AP-MW-15R**	**0.3417**	**0.1195**	**0.1**	**Yes**	**8**	**0.2306**	**0.1048**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GN-AP-MW-16**	**0.538**	**0.267**	**0.1**	**Yes**	**8**	**0.3925**	**0.111**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Molybdenum (mg/L)	**GN-AP-MW-17**	**3.31**	**2.193**	**0.1**	**Yes**	**8**	**2.751**	**0.5271**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	GN-AP-MW-18	0.0598	0.0192	0.1	No	8	0.03273	0.01685	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-19	0.01418	0.01217	0.1	No	8	0.01318	0.0009438	0	None	No	0.01	Param.
Molybdenum (mg/L)	**GN-AP-MW-20**	**0.841**	**0.786**	**0.1**	**Yes**	**8**	**0.8135**	**0.02596**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	GN-AP-MW-21	0.01558	0.007033	0.1	No	8	0.01131	0.004034	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-22	0.08079	0.04046	0.1	No	8	0.06063	0.01903	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-4	0.01	0.000137	0.1	No	8	0.006337	0.005055	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-5	0.294	0.0389	0.1	No	8	0.1422	0.1045	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-6	0.01693	0.009954	0.1	No	8	0.01344	0.003289	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-7	0.01	0.00021	0.1	No	8	0.006339	0.005053	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-8	0.01	0.00072	0.1	No	8	0.006586	0.004713	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-9	0.01	0.000821	0.1	No	8	0.00663	0.004652	62.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GN-AP-MW-10	0.00102	0.00055	0.05	No	8	0.0009612	0.0001662	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-17	0.0002	0.00008	0.002	No	8	0.000185	0.00004243	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-18	0.0004604	0.0003549	0.002	No	8	0.0004076	0.00004979	0	None	No	0.01	Param.

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



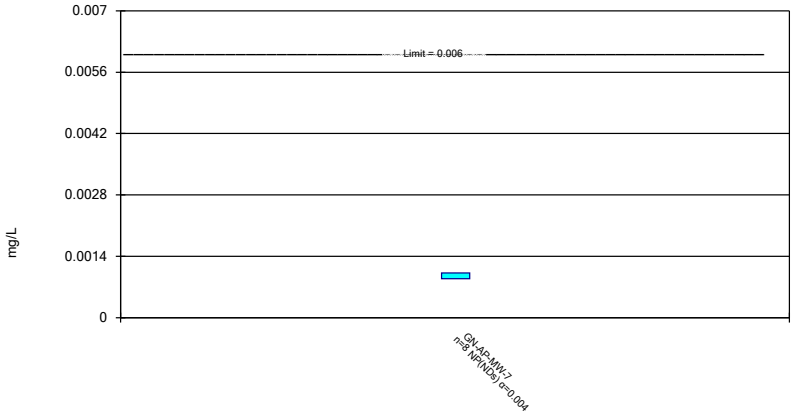
Constituent: Antimony Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



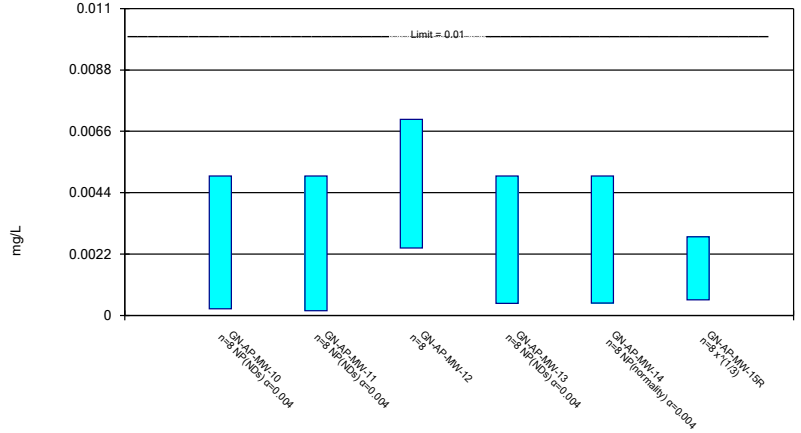
Constituent: Antimony Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



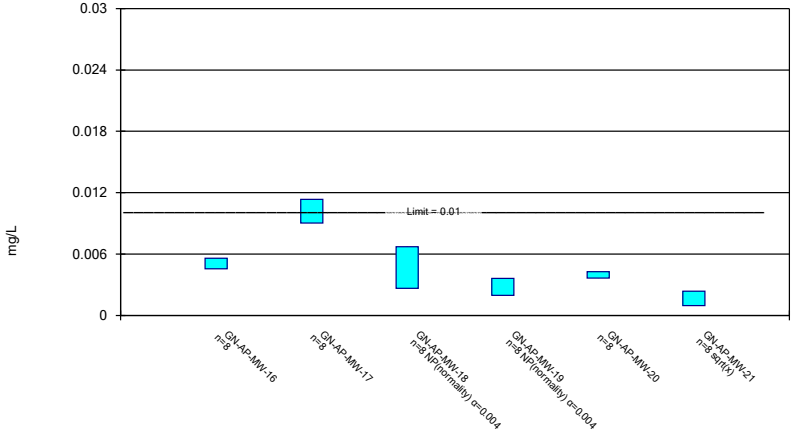
Constituent: Arsenic Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

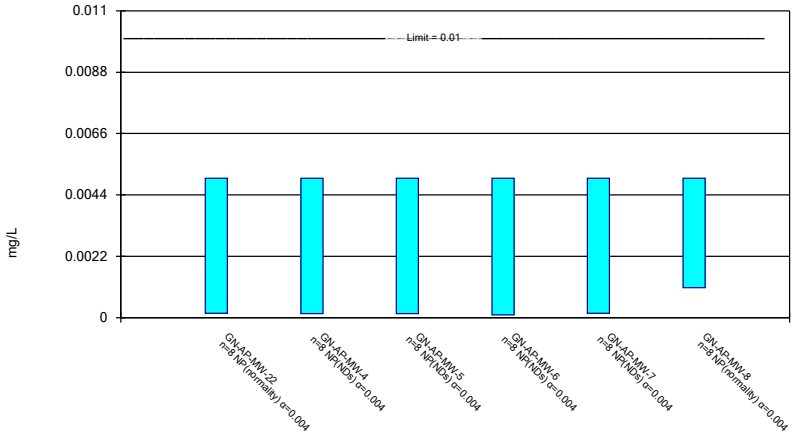


Constituent: Arsenic Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

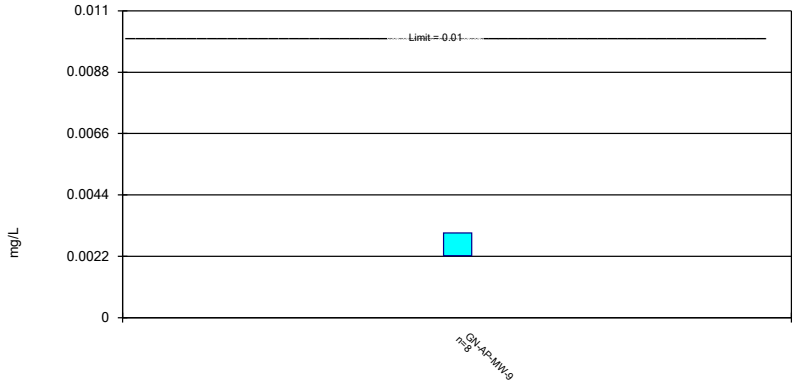


Constituent: Arsenic Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

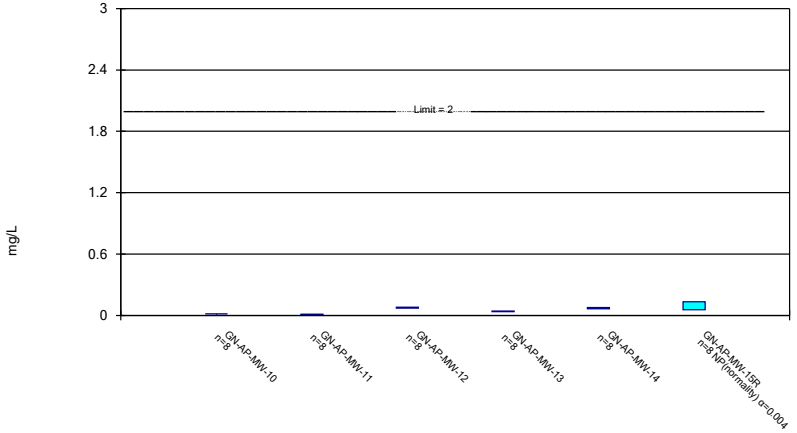


Constituent: Arsenic Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

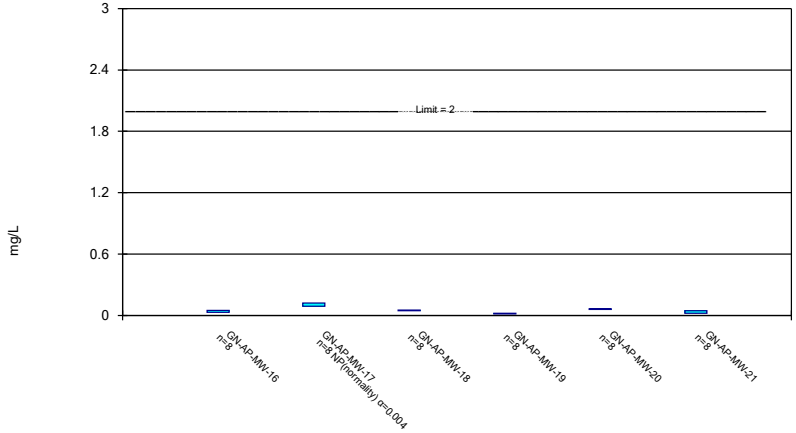


Constituent: Barium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

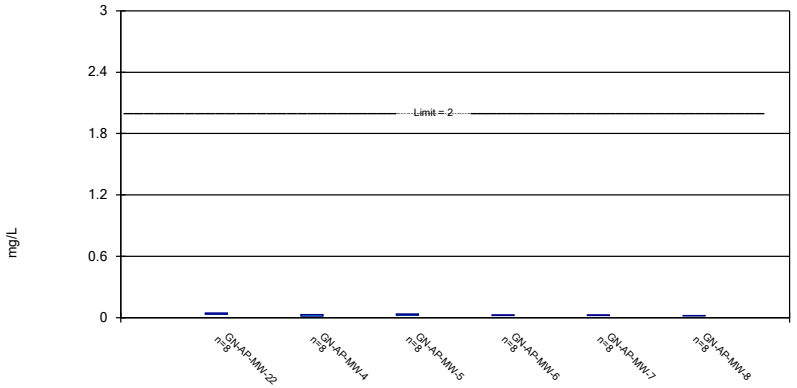
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

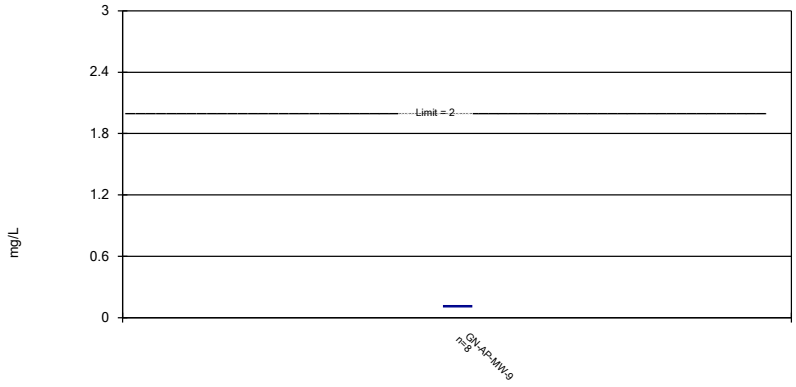


Constituent: Barium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

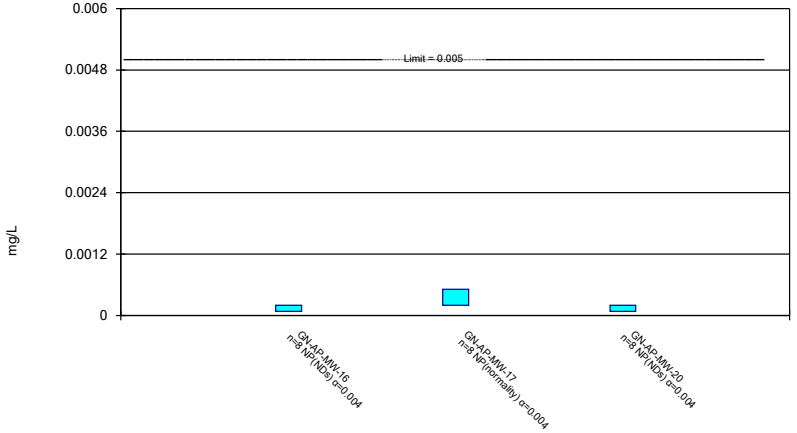


Constituent: Barium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

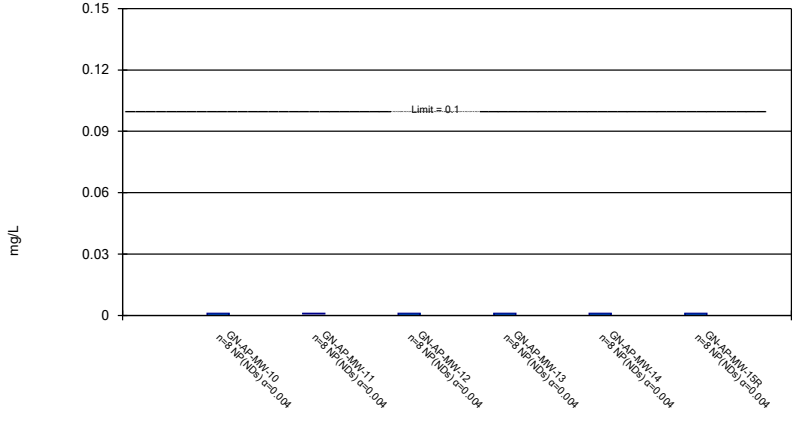


Constituent: Cadmium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

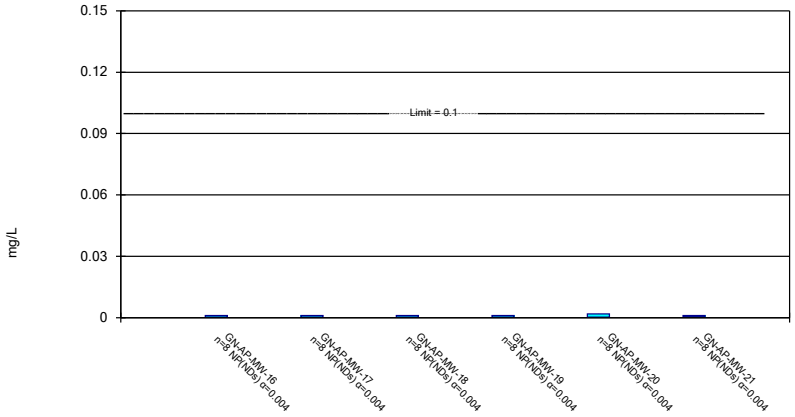


Constituent: Chromium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



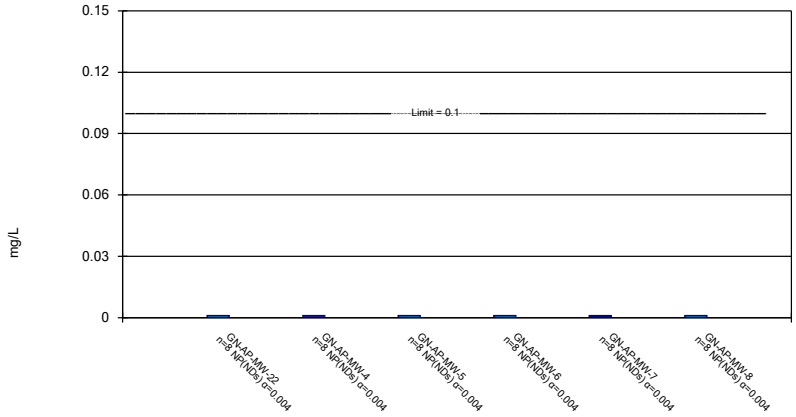
Constituent: Chromium Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



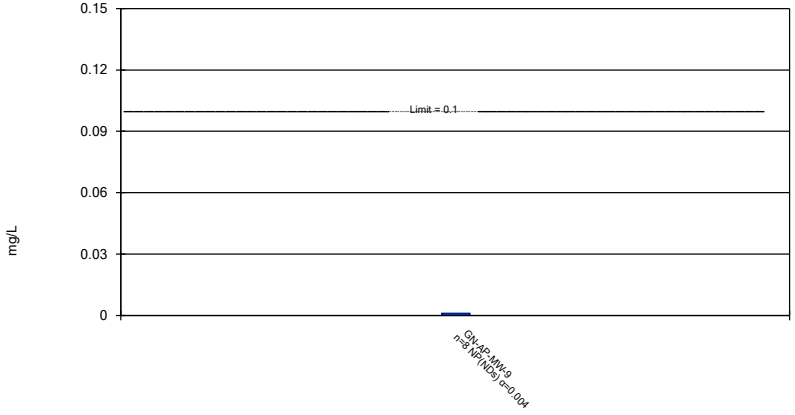
Constituent: Chromium Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



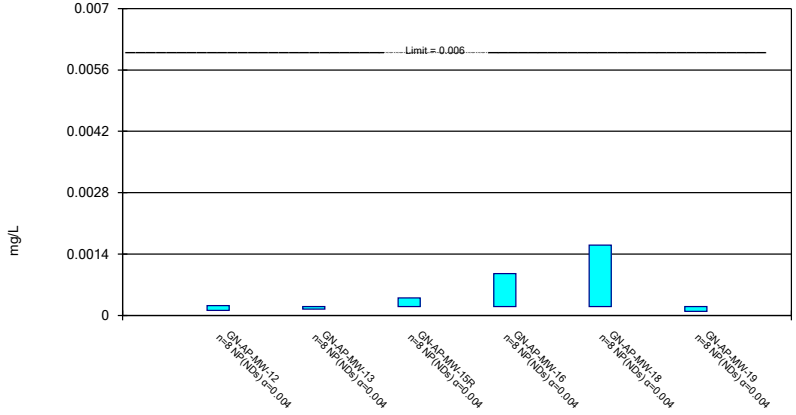
Constituent: Chromium Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

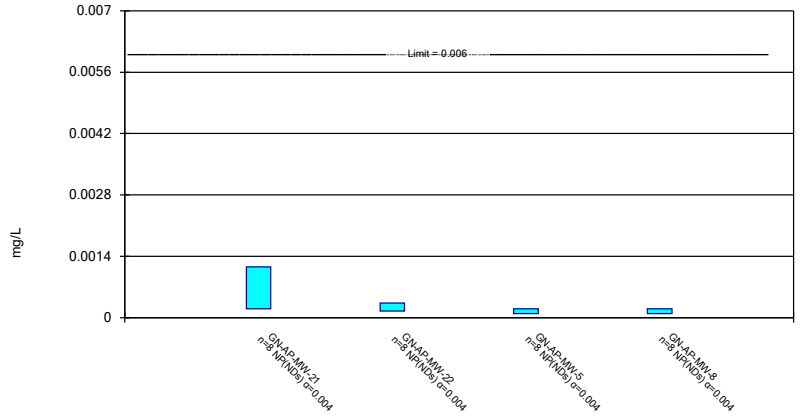


Constituent: Cobalt Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

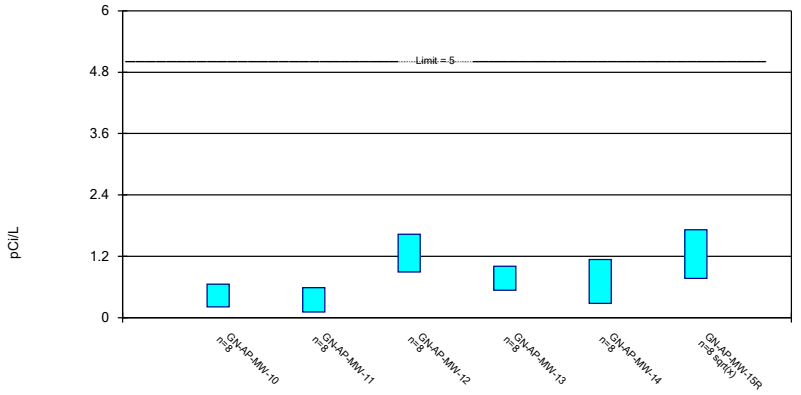


Constituent: Cobalt Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

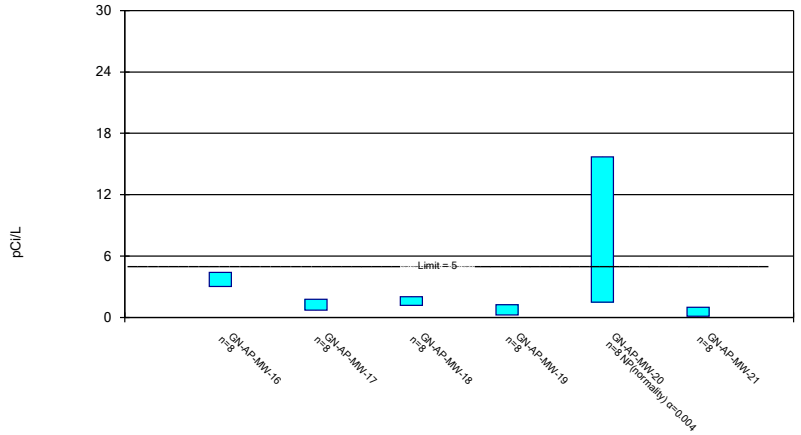


Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

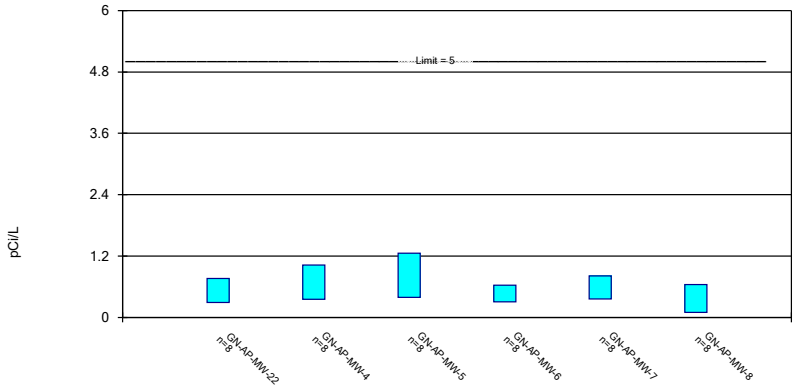


Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric Confidence Interval

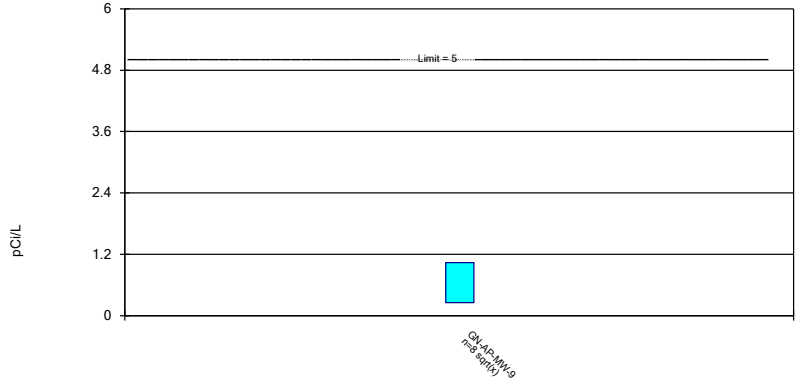
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

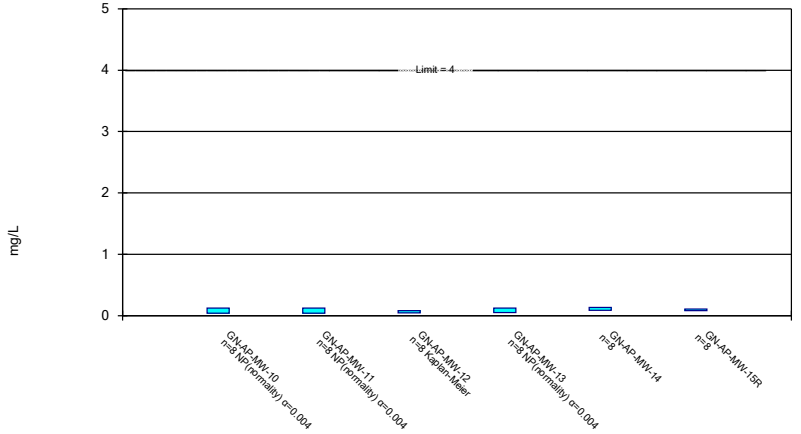


Constituent: Combined Radium 226 + 228 Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

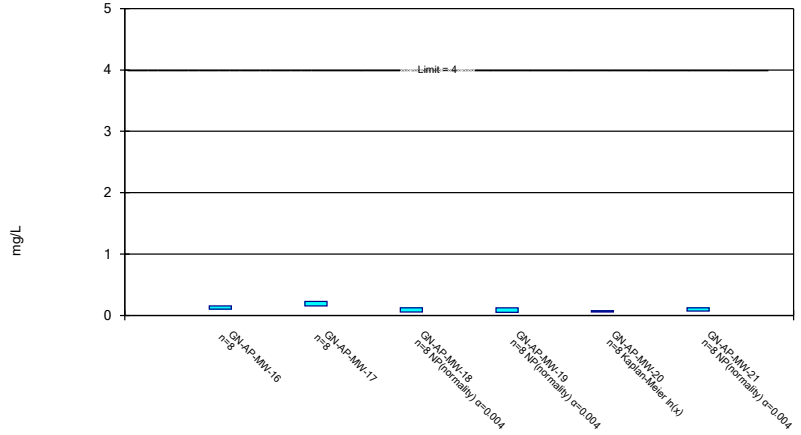


Constituent: Fluoride Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

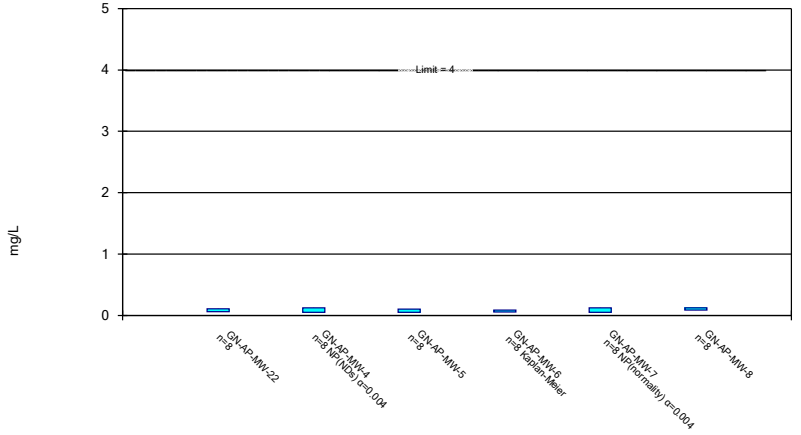


Constituent: Fluoride Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

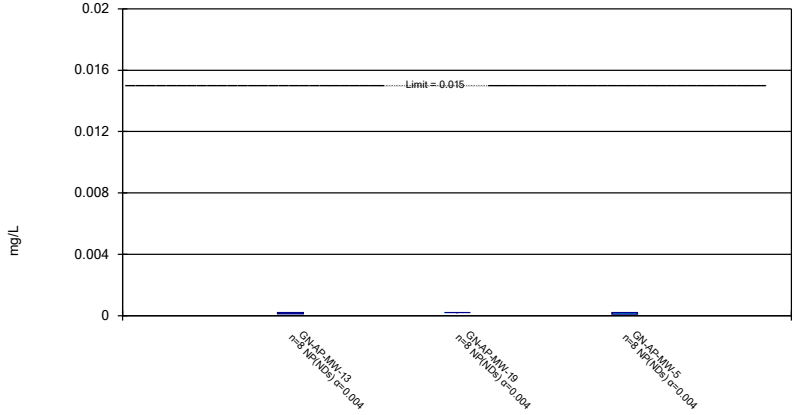
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

Constituent: Fluoride Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

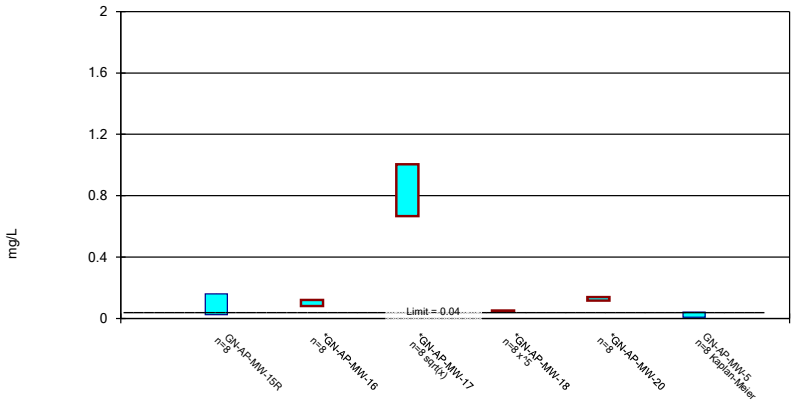
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

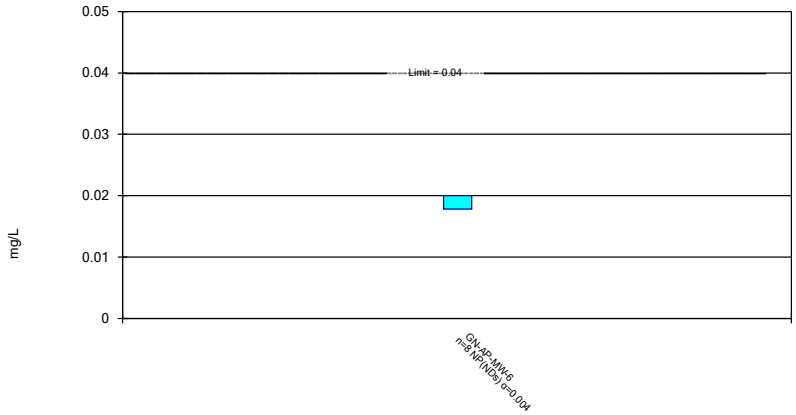
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

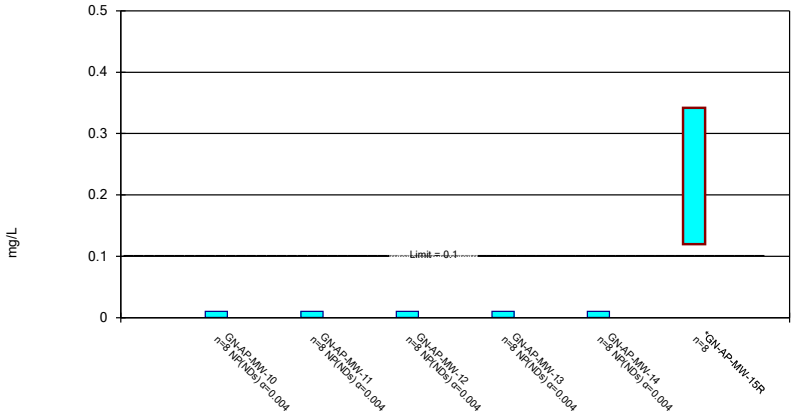
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



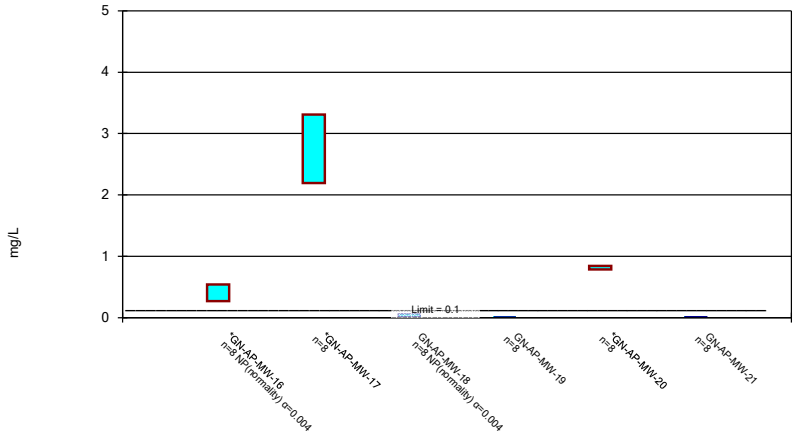
Constituent: Molybdenum Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



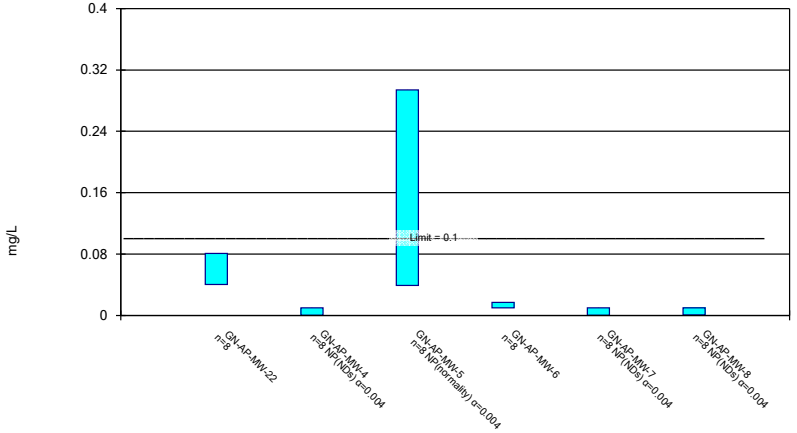
Constituent: Molybdenum Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



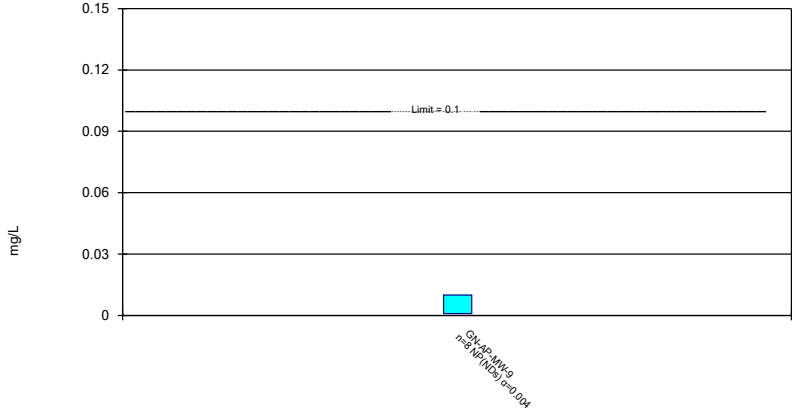
Constituent: Molybdenum Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

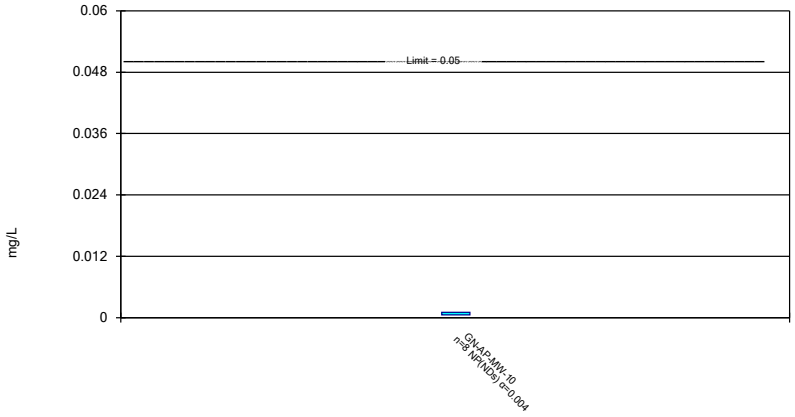


Constituent: Molybdenum Analysis Run 7/15/2022 2:45 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

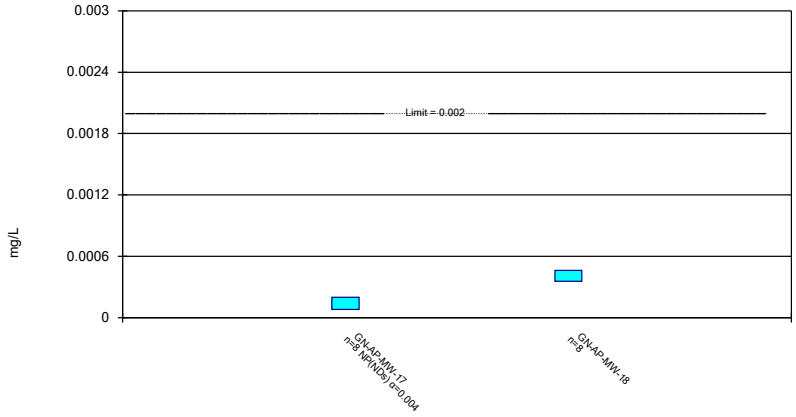


Constituent: Selenium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 7/15/2022 2:45 PM View: Appendix IV
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-12	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-17	GN-AP-MW-19	GN-AP-MW-6
10/1/2018				<0.00102		
10/2/2018					<0.00102	
10/4/2018	<0.00102					<0.00102
10/5/2018		<0.00102				
4/1/2019					0.00123 (J)	
4/2/2019						0.000819 (J)
4/3/2019	0.000871 (J)	0.000939 (J)	0.00113 (J)	0.00135 (J)		
5/7/2019			0.000998 (J)			
9/16/2019	<0.00102					
9/17/2019		<0.00102		<0.00102		
9/18/2019			<0.00102		<0.00102	<0.00102
2/18/2020	<0.00102				<0.00102	
2/19/2020		<0.00102				
2/25/2020			<0.00102			
2/26/2020				<0.00102		<0.00102
7/23/2020		<0.00102				
7/27/2020	<0.00102				<0.00102	
7/28/2020			<0.00102			<0.00102
7/29/2020				0.000845 (J)		
4/5/2021	<0.00102				<0.00102	
4/6/2021		<0.00102	<0.00102	0.000633 (J)		
4/7/2021						<0.00102
9/22/2021	<0.00102	<0.00102			<0.00102	
9/27/2021						<0.00102
9/28/2021			<0.00102			
9/29/2021				<0.00102		
4/19/2022					<0.00102	
4/20/2022				0.00068 (J)		
4/27/2022		<0.00102				
5/2/2022			<0.00102			
5/3/2022	<0.00102					<0.00102
Mean	0.001001	0.00101	0.001031	0.0009485	0.001046	0.0009949
Std. Dev.	5.268E-05	2.864E-05	4.074E-05	0.000228	7.425E-05	7.106E-05
Upper Lim.	0.00102	0.00102	0.00113	0.001126	0.00123	0.00102
Lower Lim.	0.000871	0.000939	0.000998	0.0005645	0.00102	0.000819

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-7
10/4/2018	<0.00102
4/2/2019	0.00089 (J)
9/18/2019	<0.00102
2/26/2020	<0.00102
7/28/2020	<0.00102
4/7/2021	<0.00102
9/27/2021	<0.00102
5/3/2022	<0.00102
Mean	0.001004
Std. Dev.	4.596E-05
Upper Lim.	0.00102
Lower Lim.	0.00089

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R
10/2/2018	<0.005					
10/4/2018		<0.005	0.0081			
10/5/2018				<0.005	<0.005	
4/3/2019	<0.005	<0.005	0.00726	<0.005	<0.005	0.00207 (J)
5/7/2019						0.0016 (J)
9/16/2019	<0.005	<0.005	0.00538			
9/17/2019				<0.005	0.00108 (J)	
9/18/2019						<0.005
2/17/2020	<0.005	<0.005				
2/18/2020			0.00269 (J)			
2/19/2020				<0.005	<0.005	
2/25/2020						0.00129 (J)
7/22/2020	<0.005	<0.005				
7/23/2020					<0.005	
7/27/2020			0.0041 (J)	<0.005		
7/28/2020						0.00101 (J)
4/5/2021	0.000311	0.000237	0.00276			
4/6/2021				0.000661	0.000441	0.000767
9/21/2021	0.00024	0.00017 (J)				
9/22/2021			0.00529	0.00052	0.00057	
9/28/2021						0.00084
4/27/2022					0.00059	
5/2/2022	0.00024	0.00018 (J)		0.00043		0.00058
5/3/2022			0.00223			
Mean	0.003224	0.003198	0.004726	0.003326	0.002835	0.001645
Std. Dev.	0.002451	0.002487	0.002177	0.002311	0.002322	0.00144
Upper Lim.	0.005	0.005	0.007034	0.005	0.005	0.00282
Lower Lim.	0.00024	0.00017	0.002418	0.00043	0.000441	0.0005553

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-21
10/1/2018	0.00466 (J)	0.0118	0.00288 (J)		0.00372 (J)	
10/2/2018				0.00361 (J)		
10/4/2018						0.00309 (J)
4/1/2019				0.0024 (J)		
4/2/2019						0.00134 (J)
4/3/2019	0.00466 (J)	0.0106	0.0067		0.00398 (J)	
9/16/2019	0.00492 (J)					
9/17/2019		0.0109				
9/18/2019			0.00308 (J)	0.00322 (J)	0.00425 (J)	0.00239 (J)
2/18/2020				0.00196 (J)		
2/25/2020	0.00495 (J)		0.00265 (J)		0.0043 (J)	
2/26/2020		0.011				0.00116 (J)
7/22/2020			0.00331 (J)		0.00349 (J)	
7/27/2020				0.00221 (J)		
7/28/2020	0.00535					0.00166 (J)
7/29/2020		0.00947				
4/5/2021	0.00452			0.00228		
4/6/2021		0.00999	0.00272			
4/7/2021						0.00103
4/12/2021					0.00368	
9/22/2021				0.00221		
9/27/2021						0.00103
9/28/2021	0.00593		0.00416		0.00424	
9/29/2021		0.00941				
4/19/2022				0.00215		
4/20/2022		0.0084			0.00405	
4/26/2022			0.00281			
4/27/2022	0.00552					
5/3/2022						0.00141
Mean	0.005064	0.0102	0.003539	0.002505	0.003964	0.001639
Std. Dev.	0.0004922	0.001088	0.001366	0.0005844	0.0003032	0.0007351
Upper Lim.	0.005585	0.01135	0.0067	0.00361	0.004285	0.002368
Lower Lim.	0.004542	0.009043	0.00265	0.00196	0.003642	0.0009454

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8
10/1/2018			<0.005			0.00188 (J)
10/3/2018		<0.005				
10/4/2018	<0.005			<0.005	<0.005	
4/1/2019						0.00177 (J)
4/2/2019	<0.005	<0.005	<0.005	<0.005	<0.005	
9/17/2019		<0.005				0.00112 (J)
9/18/2019	0.00129 (J)		<0.005	<0.005	<0.005	
2/18/2020		<0.005				
2/25/2020						<0.005
2/26/2020	<0.005		<0.005	<0.005	<0.005	
7/27/2020		<0.005				
7/28/2020	<0.005		<0.005	<0.005	<0.005	
7/29/2020						0.00152 (J)
4/5/2021		0.000142 (J)				
4/6/2021						0.00108
4/7/2021	0.000184 (J)		0.000148 (J)	9.55E-05 (J)	0.000194 (J)	
9/21/2021						0.0012
9/27/2021	0.00017 (J)	0.00018 (J)	0.00016 (J)	0.00014 (J)	0.00019 (J)	
5/2/2022		0.00016 (J)				0.00107
5/3/2022	0.00015 (J)		0.00015 (J)	0.00015 (J)	0.00016 (J)	
Mean	0.002724	0.003185	0.003182	0.003173	0.003193	0.00183
Std. Dev.	0.00246	0.002505	0.002509	0.002521	0.002494	0.00132
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00015	0.000142	0.000148	9.55E-05	0.00016	0.00107

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
10/1/2018	0.00275 (J)
4/1/2019	0.00269 (J)
9/17/2019	0.00324 (J)
2/17/2020	0.00246 (J)
7/29/2020	0.00222 (J)
4/5/2021	0.00234
9/21/2021	0.00308
5/2/2022	0.00225
Mean	0.002629
Std. Dev.	0.0003814
Upper Lim.	0.003033
Lower Lim.	0.002225

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R
10/2/2018	0.0124					
10/4/2018		0.00817 (J)	0.0667			
10/5/2018				0.0336	0.0776	
4/3/2019	0.0137	0.00993 (J)	0.073	0.0363	0.0619	0.134
5/7/2019						0.0774
9/16/2019	0.0135	0.00956 (J)	0.0819			
9/17/2019				0.0396	0.0745	
9/18/2019						0.0799
2/17/2020	0.0127	0.0088 (J)				
2/18/2020			0.0726			
2/19/2020				0.0381	0.0653	
2/25/2020						0.0693
7/22/2020	0.0141	0.0082 (J)				
7/23/2020					0.0686	
7/27/2020			0.077	0.0395		
7/28/2020						0.0635
4/5/2021	0.0142	0.00832	0.0751			
4/6/2021				0.0389	0.0659	0.0541
9/21/2021	0.0129	0.00893				
9/22/2021			0.0815	0.0444	0.0739	
9/28/2021						0.0615
4/27/2022					0.0763	
5/2/2022	0.0132	0.00954		0.0414		0.0561
5/3/2022			0.0752			
Mean	0.01334	0.008931	0.07538	0.03898	0.0705	0.07448
Std. Dev.	0.0006523	0.0006833	0.004949	0.003225	0.005823	0.02577
Upper Lim.	0.01403	0.009656	0.08062	0.04239	0.07667	0.134
Lower Lim.	0.01265	0.008207	0.07013	0.03556	0.06433	0.0541

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-21
10/1/2018	0.0295	0.0898	0.0424		0.061	
10/2/2018				0.0186		
10/4/2018						0.0314
4/1/2019				0.0188		
4/2/2019						0.0146
4/3/2019	0.0335	0.105	0.045		0.0599	
9/16/2019	0.0393					
9/17/2019		0.12				
9/18/2019			0.0524	0.0211	0.0651	0.0362
2/18/2020				0.0163		
2/25/2020	0.0353		0.0474		0.0595	
2/26/2020		0.105				0.0339
7/22/2020			0.05		0.0612	
7/27/2020				0.0165		
7/28/2020	0.0355					0.0223
7/29/2020		0.0978				
4/5/2021	0.0421			0.0149		
4/6/2021		0.119	0.0483			
4/7/2021						0.0375
4/12/2021					0.0589	
9/22/2021				0.0162		
9/27/2021						0.0408
9/28/2021	0.051		0.0525		0.0603	
9/29/2021		0.119				
4/19/2022				0.0141		
4/20/2022		0.12			0.0554	
4/26/2022			0.0515			
4/27/2022	0.0514					
5/3/2022						0.0497
Mean	0.0397	0.1095	0.04869	0.01706	0.06016	0.0333
Std. Dev.	0.008018	0.01175	0.003643	0.002292	0.002698	0.01086
Upper Lim.	0.0482	0.12	0.05255	0.01949	0.06302	0.04481
Lower Lim.	0.0312	0.0898	0.04483	0.01463	0.0573	0.02179

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8
10/1/2018			0.0298			0.0168
10/3/2018		0.0296				
10/4/2018	0.0353			0.0189	0.0265	
4/1/2019						0.0209
4/2/2019	0.0471	0.0254	0.0371	0.0243	0.0236	
9/17/2019		0.0344				0.0202
9/18/2019	0.0458		0.0335	0.023	0.029	
2/18/2020		0.0185				
2/25/2020						0.0168
2/26/2020	0.0439		0.0231	0.0254	0.0261	
7/27/2020		0.0207				
7/28/2020	0.0406		0.0332	0.026	0.0248	
7/29/2020						0.0206
4/5/2021		0.0151				
4/6/2021						0.018
4/7/2021	0.0352		0.027	0.0211	0.0245	
9/21/2021						0.0179
9/27/2021	0.036	0.0155	0.0266	0.0223	0.0218	
5/2/2022		0.0153				0.0188
5/3/2022	0.0276		0.0219	0.0232	0.0191	
Mean	0.03894	0.02181	0.02903	0.02303	0.02443	0.01875
Std. Dev.	0.006606	0.007285	0.005333	0.002311	0.003026	0.001649
Upper Lim.	0.04594	0.02953	0.03468	0.02547	0.02763	0.0205
Lower Lim.	0.03194	0.01409	0.02337	0.02058	0.02122	0.017

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
10/1/2018	0.118
4/1/2019	0.105
9/17/2019	0.118
2/17/2020	0.109
7/29/2020	0.105
4/5/2021	0.104
9/21/2021	0.114
5/2/2022	0.114
Mean	0.1109
Std. Dev.	0.005866
Upper Lim.	0.1171
Lower Lim.	0.1047

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-20
10/1/2018	<0.0002	0.000491 (J)	<0.0002
4/3/2019	<0.0002	0.00051 (J)	<0.0002
9/16/2019	<0.0002		
9/17/2019		<0.0002	
9/18/2019			<0.0002
2/25/2020	<0.0002		<0.0002
2/26/2020		<0.0002	
7/22/2020			<0.0002
7/28/2020	<0.0002		
7/29/2020		<0.0002	
4/5/2021	9.99E-05 (J)		
4/6/2021		0.000391	
4/12/2021			0.000123 (J)
9/28/2021	<0.0002		8E-05 (J)
9/29/2021		0.00034	
4/20/2022		0.00048	0.00013 (J)
4/27/2022	8E-05 (J)		
Mean	0.0001725	0.0003515	0.0001666
Std. Dev.	5.122E-05	0.0001371	4.828E-05
Upper Lim.	0.0002	0.00051	0.0002
Lower Lim.	8E-05	0.0002	8E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R
10/2/2018	<0.00102					
10/4/2018		<0.00102	<0.00102			
10/5/2018				<0.00102	<0.00102	
4/3/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
5/7/2019						<0.00102
9/16/2019	<0.00102	<0.00102	<0.00102			
9/17/2019				<0.00102	<0.00102	
9/18/2019						<0.00102
2/17/2020	<0.00102	<0.00102				
2/18/2020			<0.00102			
2/19/2020				<0.00102	<0.00102	
2/25/2020						<0.00102
7/22/2020	<0.00102	<0.00102				
7/23/2020					<0.00102	
7/27/2020			<0.00102	<0.00102		
7/28/2020						<0.00102
4/5/2021	0.000275 (J)	0.000743 (J)	0.000278 (J)			
4/6/2021				0.000353 (J)	0.000234 (J)	0.000777 (J)
9/21/2021	0.00025 (J)	0.00092 (J)				
9/22/2021			0.00039 (J)	0.00032 (J)	0.0003 (J)	
9/28/2021						0.00031 (J)
4/27/2022					0.00025 (J)	
5/2/2022	0.00026 (J)	0.00065 (J)		0.00027 (J)		0.00027 (J)
5/3/2022			<0.00102			
Mean	0.0007356	0.0009266	0.0008485	0.0007554	0.0007355	0.0008071
Std. Dev.	0.0003925	0.0001483	0.000319	0.0003659	0.0003931	0.0003302
Upper Lim.	0.00102	0.00102	0.00102	0.00102	0.00102	0.00102
Lower Lim.	0.00025	0.00065	0.000278	0.00027	0.000234	0.00027

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-21
10/1/2018	<0.00102	<0.00102	<0.00102		<0.00102	
10/2/2018				<0.00102		
10/4/2018						<0.00102
4/1/2019				<0.00102		
4/2/2019						<0.00102
4/3/2019	<0.00102	<0.00102	<0.00102		<0.00102	
9/16/2019	<0.00102					
9/17/2019		<0.00102				
9/18/2019			<0.00102	<0.00102	<0.00102	<0.00102
2/18/2020				<0.00102		
2/25/2020	<0.00102		<0.00102		<0.00102	
2/26/2020		<0.00102				<0.00102
7/22/2020			<0.00102		<0.00102	
7/27/2020				<0.00102		
7/28/2020	<0.00102					<0.00102
7/29/2020		<0.00102				
4/5/2021	0.000319 (J)			0.000316 (J)		
4/6/2021		0.000347 (J)	0.000334 (J)			
4/7/2021						0.00032 (J)
4/12/2021					0.00038 (J)	
9/22/2021				0.00024 (J)		
9/27/2021						0.00037 (J)
9/28/2021	0.00032 (J)		0.00029 (J)		0.00029 (J)	
9/29/2021		0.00028 (J)				
4/19/2022				0.0003 (J)		
4/20/2022		0.00037 (J)			0.00186	
4/26/2022			0.00024 (J)			
4/27/2022	0.00021 (J)					
5/3/2022						<0.00102
Mean	0.0007436	0.0007621	0.0007455	0.0007445	0.0009537	0.0008512
Std. Dev.	0.0003829	0.0003568	0.0003797	0.0003808	0.00048	0.0003127
Upper Lim.	0.00102	0.00102	0.00102	0.00102	0.00186	0.00102
Lower Lim.	0.00021	0.00028	0.00024	0.00024	0.00029	0.00032

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8
10/1/2018			<0.00102			<0.00102
10/3/2018		<0.00102				
10/4/2018	<0.00102			<0.00102	<0.00102	
4/1/2019						<0.00102
4/2/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
9/17/2019		<0.00102				<0.00102
9/18/2019	<0.00102		<0.00102	<0.00102	<0.00102	
2/18/2020		<0.00102				
2/25/2020						<0.00102
2/26/2020	<0.00102		<0.00102	<0.00102	<0.00102	
7/27/2020		<0.00102				
7/28/2020	<0.00102		<0.00102	<0.00102	<0.00102	
7/29/2020						<0.00102
4/5/2021		0.000909 (J)				
4/6/2021						0.000333 (J)
4/7/2021	0.000307 (J)		0.000278 (J)	0.000259 (J)	0.000506 (J)	
9/21/2021						0.00031 (J)
9/27/2021	0.00031 (J)	0.00082 (J)	0.00036 (J)	0.00035 (J)	0.00037 (J)	
5/2/2022		0.00074 (J)				0.00031 (J)
5/3/2022	0.00026 (J)		0.00033 (J)	0.0003 (J)	0.00035 (J)	
Mean	0.0007471	0.0009461	0.0007585	0.0007511	0.0007907	0.0007566
Std. Dev.	0.0003769	0.0001115	0.0003616	0.0003719	0.0003196	0.0003636
Upper Lim.	0.00102	0.00102	0.00102	0.00102	0.00102	0.00102
Lower Lim.	0.00026	0.00074	0.000278	0.000259	0.00035	0.00031

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
10/1/2018	<0.00102
4/1/2019	<0.00102
9/17/2019	<0.00102
2/17/2020	<0.00102
7/29/2020	<0.00102
4/5/2021	0.000295 (J)
9/21/2021	0.00032 (J)
5/2/2022	0.00029 (J)
Mean	0.0007506
Std. Dev.	0.0003719
Upper Lim.	0.00102
Lower Lim.	0.00029

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-18	GN-AP-MW-19
10/1/2018				<0.0002	<0.0002	
10/2/2018						<0.0002
10/4/2018	<0.0002					
10/5/2018		<0.0002				
4/1/2019						<0.0002
4/3/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
5/7/2019			<0.0002			
9/16/2019	<0.0002			<0.0002		
9/17/2019		<0.0002				
9/18/2019			<0.0002		<0.0002	<0.0002
2/18/2020	<0.0002					<0.0002
2/19/2020		<0.0002				
2/25/2020			<0.0002	<0.0002	<0.0002	
7/22/2020					<0.0002	
7/27/2020	<0.0002	<0.0002				<0.0002
7/28/2020			<0.0002	<0.0002		
4/5/2021	0.000113 (J)			0.000679		9.07E-05 (J)
4/6/2021		0.000142 (J)	0.000352		0.000633	
9/22/2021	0.00016 (J)	<0.0002				0.00011 (J)
9/28/2021			0.0004	0.00095	0.00132	
4/19/2022						0.00017 (J)
4/26/2022					0.0016	
4/27/2022				0.0007		
5/2/2022		0.00014 (J)	0.00027			
5/3/2022	0.00022					
Mean	0.0001866	0.0001852	0.0002527	0.0004161	0.0005691	0.0001713
Std. Dev.	3.41E-05	2.732E-05	8.084E-05	0.000309	0.0005747	4.532E-05
Upper Lim.	0.00022	0.0002	0.0004	0.00095	0.0016	0.0002
Lower Lim.	0.000113	0.00014	0.0002	0.0002	0.0002	9.07E-05

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-5	GN-AP-MW-8
10/1/2018			<0.0002	<0.0002
10/4/2018	<0.0002	<0.0002		
4/1/2019				<0.0002
4/2/2019	<0.0002	<0.0002	<0.0002	
9/17/2019				<0.0002
9/18/2019	<0.0002	<0.0002	<0.0002	
2/25/2020				<0.0002
2/26/2020	<0.0002	<0.0002	<0.0002	
7/28/2020	<0.0002	<0.0002	<0.0002	
7/29/2020				<0.0002
4/6/2021				9.45E-05 (J)
4/7/2021	0.000374	0.000333	9.62E-05 (J)	
9/21/2021				<0.0002
9/27/2021	0.00024	0.00031	<0.0002	
5/2/2022				<0.0002
5/3/2022	0.00116	0.00015 (J)	9E-05 (J)	
Mean	0.0003467	0.0002241	0.0001733	0.0001868
Std. Dev.	0.0003341	6.283E-05	4.951E-05	3.73E-05
Upper Lim.	0.00116	0.000333	0.0002	0.0002
Lower Lim.	0.0002	0.00015	9E-05	9.45E-05

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R
10/2/2018	0.613					
10/4/2018		0.703	1.5			
10/5/2018				1.04	0.955	
4/3/2019	0.26 (U)	0.2 (U)	0.669	0.577	0.189 (U)	1.16
5/7/2019						1.36
9/16/2019	0.307 (U)	0.507 (U)	1.04			
9/17/2019				0.958 (U)	0.558 (U)	
9/18/2019						0.94
2/17/2020	0.379 (U)	0.568				
2/18/2020			1.34			
2/19/2020				0.702	0.404 (U)	
2/25/2020						0.669
7/22/2020	0.185 (U)	0.24 (U)				
7/23/2020					1.48	
7/27/2020			1.85	0.986		
7/28/2020						2.35
4/5/2021	0.579 (U)	0.13 (U)	1.2			
4/6/2021				0.66 (U)	0.875 (U)	1.2
9/21/2021	0.802 (U)	0.0771 (U)				
9/22/2021			1.4	0.834 (U)	0.44 (U)	
9/28/2021						1.04 (U)
4/27/2022					0.753 (U)	
5/2/2022	0.349 (U)	0.355 (U)		0.412 (U)		1.14 (U)
5/3/2022			1.09 (U)			
Mean	0.4343	0.3475	1.261	0.7711	0.7068	1.232
Std. Dev.	0.2095	0.225	0.3509	0.2208	0.4041	0.4957
Upper Lim.	0.6563	0.586	1.633	1.005	1.135	1.72
Lower Lim.	0.2122	0.1091	0.8892	0.5371	0.2784	0.7662

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-21
10/1/2018	2.91	0.793	1.54		15.7	
10/2/2018				0.854		
10/4/2018						1.05
4/1/2019				0.263 (U)		
4/2/2019						0.182 (U)
4/3/2019	3.43	0.907	1.49		13.8	
9/16/2019	3.55					
9/17/2019		2.09				
9/18/2019			1.25	0.29 (U)	15.7	0.435 (U)
2/18/2020				0.779		
2/25/2020	2.99		1.13		12.9	
2/26/2020		1.35				0.032 (U)
7/22/2020			2.35		15.6	
7/27/2020				1.68		
7/28/2020	3.49					0.275 (U)
7/29/2020		1.85				
4/5/2021	4.28			0.959 (U)		
4/6/2021		0.689 (U)	1.68			
4/7/2021						1.12 (U)
4/12/2021					15.6	
9/22/2021				0.368 (U)		
9/27/2021						0.815 (U)
9/28/2021	4.67		1.94		15.4	
9/29/2021		1.18				
4/19/2022				0.66 (U)		
4/20/2022		1.12 (U)			1.49	
4/26/2022			1.34			
4/27/2022	4.33					
5/3/2022						0.435 (U)
Mean	3.706	1.247	1.59	0.7316	13.27	0.543
Std. Dev.	0.6482	0.4984	0.3983	0.466	4.875	0.4054
Upper Lim.	4.393	1.776	2.012	1.226	15.7	0.9727
Lower Lim.	3.019	0.7191	1.168	0.2377	1.49	0.1133

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8
10/1/2018			0.651			0.601
10/3/2018		1.23				
10/4/2018	0.568			0.558	0.971	
4/1/2019						-0.0724 (U)
4/2/2019	0.503	0.427	0.245 (U)	0.369	0.326 (U)	
9/17/2019		0.767				0.645
9/18/2019	0.165 (U)		0.435 (U)	0.586	0.56 (U)	
2/18/2020		0.231 (U)				
2/25/2020						0.362 (U)
2/26/2020	0.693		0.661	0.746	0.512 (U)	
7/27/2020		0.97 (U)				
7/28/2020	0.41 (U)		0.907 (U)	0.292 (U)	0.652 (U)	
7/29/2020						0.398 (U)
4/5/2021		0.474 (U)				
4/6/2021						0.53 (U)
4/7/2021	0.365 (U)		1.4	0.387 (U)	0.743 (U)	
9/21/2021						0.0496 (U)
9/27/2021	0.892 (U)	0.745 (U)	1.34	0.314 (U)	0.319 (U)	
5/2/2022		0.658 (U)				0.465 (U)
5/3/2022	0.617 (U)		0.958 (U)	0.478 (U)	0.596 (U)	
Mean	0.5266	0.6878	0.8246	0.4663	0.5849	0.3723
Std. Dev.	0.2211	0.3177	0.4081	0.156	0.2146	0.2571
Upper Lim.	0.7609	1.024	1.257	0.6316	0.8123	0.6448
Lower Lim.	0.2923	0.351	0.392	0.3009	0.3574	0.09974

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
10/1/2018	1.07
4/1/2019	0.334
9/17/2019	0.194 (U)
2/17/2020	0.38 (U)
7/29/2020	0.28 (U)
4/5/2021	0.843 (U)
9/21/2021	1.05 (U)
5/2/2022	0.891
Mean	0.6303
Std. Dev.	0.3677
Upper Lim.	1.037
Lower Lim.	0.2531

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R
10/2/2018	0.04 (J)					
10/4/2018		0.04 (J)	0.04 (J)			
10/5/2018				0.05 (J)	0.1	
4/3/2019	<0.125	<0.125	<0.125	<0.125	0.106	0.104
5/7/2019						0.0937 (J)
9/16/2019	<0.125	<0.125	0.0538 (J)			
9/17/2019				0.0753 (J)	0.116	
9/18/2019						0.094 (J)
2/17/2020	0.051 (J)	0.0546 (J)				
2/18/2020			0.0571 (J)			
2/19/2020				0.06 (J)	0.122	
2/25/2020						0.0995 (J)
7/22/2020	<0.125	<0.125				
7/23/2020					0.0954 (J)	
7/27/2020			<0.125	<0.125		
7/28/2020						0.0738 (J)
4/5/2021	0.0627 (J)	0.0634 (J)	0.0733 (J)			
4/6/2021				0.0794 (J)	0.124	0.116
9/21/2021	0.0847 (J)	0.0847 (J)				
9/22/2021			0.0887 (J)	0.117	0.149	
9/28/2021						0.09 (J)
4/27/2022					0.0652 (J)	
5/2/2022	<0.125	<0.125		<0.125		0.08 (J)
5/3/2022			<0.125			
Mean	0.0923	0.09284	0.08599	0.09459	0.1097	0.09388
Std. Dev.	0.03713	0.0365	0.03529	0.03177	0.02459	0.01328
Upper Lim.	0.125	0.125	0.08041	0.125	0.1358	0.1079
Lower Lim.	0.04	0.04	0.04475	0.05	0.08364	0.0798

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-21
10/1/2018	0.15	0.25	0.06 (J)		0.05 (J)	
10/2/2018				0.05 (J)		
10/4/2018						0.07 (J)
4/1/2019				0.0563 (J)		
4/2/2019						<0.125
4/3/2019	0.12	0.182	0.0678 (J)		0.0657 (J)	
9/16/2019	0.126					
9/17/2019		0.187				
9/18/2019			0.0551 (J)	0.0507 (J)	<0.125	0.0749 (J)
2/18/2020				0.0557 (J)		
2/25/2020	0.133		0.0701 (J)		0.0566 (J)	
2/26/2020		0.189				0.0804 (J)
7/22/2020			0.0628 (J)		<0.125	
7/27/2020				<0.125		
7/28/2020	0.124					<0.125
7/29/2020		0.185				
4/5/2021	0.159			0.088 (J)		
4/6/2021		0.179	<0.125			
4/7/2021						0.0739 (J)
4/12/2021					0.0644 (J)	
9/22/2021				0.0965 (J)		
9/27/2021						0.0914 (J)
9/28/2021	0.125		0.0839 (J)		0.0828 (J)	
9/29/2021		0.211				
4/19/2022				<0.125		
4/20/2022		0.128			<0.125	
4/26/2022			<0.125			
4/27/2022	0.0766 (J)					
5/3/2022						<0.125
Mean	0.1267	0.1889	0.08121	0.0809	0.08681	0.0957
Std. Dev.	0.02447	0.03401	0.02833	0.03227	0.03297	0.02506
Upper Lim.	0.1526	0.2249	0.125	0.125	0.0753	0.125
Lower Lim.	0.1008	0.1528	0.0551	0.05	0.05269	0.07

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8
10/1/2018			0.05 (J)			0.12
10/3/2018		<0.125				
10/4/2018	0.08 (J)			0.05 (J)	0.05 (J)	
4/1/2019						0.0956 (J)
4/2/2019	0.0613 (J)	<0.125	0.0555 (J)	0.0586 (J)	0.052 (J)	
9/17/2019		<0.125				0.0971 (J)
9/18/2019	0.065 (J)		0.0568 (J)	0.0634 (J)	0.0578 (J)	
2/18/2020		0.0506 (J)				
2/25/2020						0.0898 (J)
2/26/2020	0.0687 (J)		0.0647 (J)	<0.125	0.0523 (J)	
7/27/2020		<0.125				
7/28/2020	<0.125		<0.125	<0.125	<0.125	
7/29/2020						0.0742 (J)
4/5/2021		0.0842 (J)				
4/6/2021						0.114
4/7/2021	0.0834 (J)		0.0874 (J)	0.0872 (J)	0.0705 (J)	
9/21/2021						0.132
9/27/2021	0.1	0.0702 (J)	0.0989 (J)	0.0862 (J)	0.0882 (J)	
5/2/2022		<0.125				0.111 (J)
5/3/2022	0.0819 (J)		0.0648 (J)	<0.125	<0.125	
Mean	0.08316	0.1038	0.07539	0.09005	0.0776	0.1042
Std. Dev.	0.02092	0.03068	0.02611	0.0316	0.03186	0.0185
Upper Lim.	0.1053	0.125	0.1031	0.085	0.125	0.1238
Lower Lim.	0.06099	0.0506	0.04772	0.05316	0.05	0.0846

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
10/1/2018	0.14
4/1/2019	0.136
9/17/2019	0.128
2/17/2020	0.15
7/29/2020	0.116
4/5/2021	0.15
9/21/2021	0.181
5/2/2022	0.122 (J)
Mean	0.1404
Std. Dev.	0.02049
Upper Lim.	0.1621
Lower Lim.	0.1187

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-13	GN-AP-MW-19	GN-AP-MW-5
10/1/2018			<0.0002
10/2/2018		<0.0002	
10/5/2018	<0.0002		
4/1/2019		<0.0002	
4/2/2019			<0.0002
4/3/2019	<0.0002		
9/17/2019	<0.0002		
9/18/2019		<0.0002	<0.0002
2/18/2020		<0.0002	
2/19/2020	<0.0002		
2/26/2020			<0.0002
7/27/2020	<0.0002	<0.0002	
7/28/2020			<0.0002
4/5/2021		<0.0002	
4/6/2021	0.000106 (J)		
4/7/2021			0.00014 (J)
9/22/2021	<0.0002	<0.0002	
9/27/2021			0.0001 (J)
4/19/2022		0.00019 (J)	
5/2/2022	<0.0002		
5/3/2022			0.0001 (J)
Mean	0.0001882	0.0001987	0.0001675
Std. Dev.	3.323E-05	3.536E-06	4.652E-05
Upper Lim.	0.0002	0.0002	0.0002
Lower Lim.	0.000106	0.00019	0.0001

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20	GN-AP-MW-5
10/1/2018		0.076	0.628	0.0386	0.11	0.0482
4/2/2019						0.0242
4/3/2019	0.149	0.0814	0.716	0.0393	0.115	
5/7/2019	0.164					
9/16/2019		0.0926				
9/17/2019			0.785			
9/18/2019	0.186			0.0492	0.131	0.043
2/25/2020	0.0848	0.0951		0.0465	0.137	
2/26/2020			0.752			<0.02
7/22/2020				0.0507	0.125	
7/28/2020	0.0559	0.0903				0.0361
7/29/2020			0.731			
4/5/2021		0.111				
4/6/2021	0.0423		1.01	0.05		
4/7/2021						0.01 (J)
4/12/2021					0.139	
9/27/2021						0.00862 (J)
9/28/2021	0.0326	0.126		0.0506	0.137	
9/29/2021			1.03			
4/20/2022			1.02		0.119	
4/26/2022				0.0464		
4/27/2022		0.127				
5/2/2022	0.0278					
5/3/2022						<0.02
Mean	0.0928	0.09993	0.834	0.04641	0.1266	0.02626
Std. Dev.	0.06407	0.01935	0.1604	0.004902	0.01108	0.01472
Upper Lim.	0.1607	0.1204	1.004	0.0509	0.1384	0.04017
Lower Lim.	0.02488	0.07942	0.6676	0.04183	0.1149	0.007015

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6
10/4/2018	<0.02
4/2/2019	<0.02
9/18/2019	<0.02
2/26/2020	<0.02
7/28/2020	<0.02
4/7/2021	<0.02
9/27/2021	<0.02
5/3/2022	0.0178 (J)
Mean	0.01972
Std. Dev.	0.0007778
Upper Lim.	0.02
Lower Lim.	0.0178

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-15R
10/2/2018	<0.01					
10/4/2018		<0.01	<0.01			
10/5/2018				<0.01	<0.01	
4/3/2019	<0.01	<0.01	<0.01	<0.01	<0.01	0.433
5/7/2019						0.292
9/16/2019	<0.01	<0.01	<0.01			
9/17/2019				<0.01	<0.01	
9/18/2019						0.307
2/17/2020	<0.01	<0.01				
2/18/2020			<0.01			
2/19/2020				<0.01	<0.01	
2/25/2020						0.209
7/22/2020	<0.01	<0.01				
7/23/2020					<0.01	
7/27/2020			<0.01	<0.01		
7/28/2020						0.167
4/5/2021	0.000248	0.00033	0.000366			
4/6/2021				0.000329	0.000298	0.156
9/21/2021	0.00018 (J)	0.00026				
9/22/2021			0.0003	0.00031	0.00052	
9/28/2021						0.137
4/27/2022					0.00052	
5/2/2022	0.00021	0.00038		0.0003		0.144
5/3/2022			0.00033			
Mean	0.00633	0.006371	0.006374	0.006367	0.006417	0.2306
Std. Dev.	0.005065	0.005008	0.005004	0.005014	0.004945	0.1048
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.3417
Lower Lim.	0.00018	0.00026	0.0003	0.0003	0.000298	0.1195

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-21
10/1/2018	0.267	1.95	0.0192		0.775	
10/2/2018				0.0113		
10/4/2018						0.0159
4/1/2019				0.0132		
4/2/2019						0.00611 (J)
4/3/2019	0.311	2.33	0.0214		0.803	
9/16/2019	0.32					
9/17/2019		2.33				
9/18/2019			0.0243	0.0128	0.837	0.0172
2/18/2020				0.0129		
2/25/2020	0.343		0.0228		0.813	
2/26/2020		2.83				0.0139
7/22/2020			0.0244		0.784	
7/27/2020				0.0133		
7/28/2020	0.328					0.00969 (J)
7/29/2020		2.79				
4/5/2021	0.514			0.0137		
4/6/2021		3.56	0.0307			
4/7/2021						0.00838
4/12/2021					0.811	
9/22/2021				0.0136		
9/27/2021						0.00769
9/28/2021	0.538		0.0592		0.845	
9/29/2021		3.23				
4/19/2022				0.0146		
4/20/2022		2.99			0.84	
4/26/2022			0.0598			
4/27/2022	0.519					
5/3/2022						0.0116
Mean	0.3925	2.751	0.03273	0.01318	0.8135	0.01131
Std. Dev.	0.111	0.5271	0.01685	0.0009438	0.02596	0.004034
Upper Lim.	0.538	3.31	0.0598	0.01418	0.841	0.01558
Lower Lim.	0.267	2.193	0.0192	0.01217	0.786	0.007033

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8
10/1/2018			0.294			<0.01
10/3/2018		<0.01				
10/4/2018	0.0698			0.0101	<0.01	
4/1/2019						<0.01
4/2/2019	0.0703	<0.01	0.164	0.0166	<0.01	
9/17/2019		<0.01				<0.01
9/18/2019	0.0895		0.261	0.0138	<0.01	
2/18/2020		<0.01				
2/25/2020						<0.01
2/26/2020	0.0691		0.0546	0.0157	<0.01	
7/27/2020		<0.01				
7/28/2020	0.0677		0.215	0.0185	<0.01	
7/29/2020						<0.01
4/5/2021		0.000137 (J)				
4/6/2021						0.000895
4/7/2021	0.0456		0.0562	0.0119	0.00021	
9/21/2021						0.00072
9/27/2021	0.0388	0.00026	0.0541	0.0118	0.00026	
5/2/2022		0.0003				0.00107
5/3/2022	0.0342		0.0389	0.00912	0.00024	
Mean	0.06063	0.006337	0.1422	0.01344	0.006339	0.006586
Std. Dev.	0.01903	0.005055	0.1045	0.003289	0.005053	0.004713
Upper Lim.	0.08079	0.01	0.294	0.01693	0.01	0.01
Lower Lim.	0.04046	0.000137	0.0389	0.009954	0.00021	0.00072

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
10/1/2018	<0.01
4/1/2019	<0.01
9/17/2019	<0.01
2/17/2020	<0.01
7/29/2020	<0.01
4/5/2021	0.000821
9/21/2021	0.00102
5/2/2022	0.0012
Mean	0.00663
Std. Dev.	0.004652
Upper Lim.	0.01
Lower Lim.	0.000821

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10
10/2/2018	<0.00102
4/3/2019	<0.00102
9/16/2019	<0.00102
2/17/2020	<0.00102
7/22/2020	<0.00102
4/5/2021	<0.00102
9/21/2021	<0.00102
5/2/2022	0.00055 (J)
Mean	0.0009612
Std. Dev.	0.0001662
Upper Lim.	0.00102
Lower Lim.	0.00055

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/15/2022 2:47 PM View: Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17	GN-AP-MW-18
10/1/2018	<0.0002	0.000371 (J)
4/3/2019	<0.0002	0.00034 (J)
9/17/2019	<0.0002	
9/18/2019		0.000479 (J)
2/25/2020		0.000426 (J)
2/26/2020	<0.0002	
7/22/2020		0.000456 (J)
7/29/2020	<0.0002	
4/6/2021	<0.0002	0.000389
9/28/2021		0.00036
9/29/2021	<0.0002	
4/20/2022	8E-05 (J)	
4/26/2022		0.00044
Mean	0.000185	0.0004076
Std. Dev.	4.243E-05	4.979E-05
Upper Lim.	0.0002	0.0004604
Lower Lim.	8E-05	0.0003549