

**2023 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY
PLANT GASTON
ASH POND**

January 31, 2024

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2023 *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.



1/31/2024

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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-095-GW, this 2023 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document groundwater monitoring activities at the Plant Gaston Ash Pond and to satisfy the requirements of 40 CFR § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(e), and Part E of AO No. 18-095-GW. Semi-annual monitoring and associated reporting for Plant Gaston Ash Pond is performed in accordance with the monitoring requirements in 40 CFR § 257.90 through § 257.98, ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9), and ADEM Administrative Order (AO) No. 18-095-GW.

The CCR unit began the monitoring period in corrective action pursuant to 40 CFR § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9). 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 40 CFR § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order (AO) 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 support the effort to select effective corrective measures to address SSL above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of 40 CFR § 257.97, ADEM Admin. Code r. 335-13-15-.06(8) and Part C of AO No.18-095-GW and was 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.

SSL of Appendix IV parameters lithium and molybdenum were identified from statistical evaluation of assessment monitoring data collected during the first semi-annual monitoring event of 2023. SSL of Appendix IV parameters lithium, molybdenum, and combined radium 226 + 228 were identified from

statistical evaluation of assessment monitoring data collected during the second 2023 semi-annual monitoring event.

The following summarizes results and activities conducted during the first and second 2023 semi-annual monitoring periods:

- Submitted the 2022 Annual Groundwater Monitoring and Corrective Action Report to ADEM on January 31, 2023.
- Completed the first 2023 semi-annual groundwater monitoring event between January 23, 2023 and February 7, 2023, and submitted the first 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report to ADEM on July 31, 2023.
- Completed the second 2023 semi-annual groundwater monitoring event between July 17, 2023 and August 1, 2023.
- Continued real-time collection and evaluation of groundwater data from multi-parameter monitoring instrumentation at select wells installed in September and October 2022 for evaluating groundwater conditions during closure activities and between sampling events.
- Research for the in situ groundwater treatment of Site constituents of interest (COI) as part of the Pre-Design Investigation (PDI) for the Permeation Grouting Pilot Program. This included:
 - Selected locations for pilot tests based on stratigraphy, COI in groundwater, bedrock characterization data, and accessibility.
- Site PDI field work commenced in late November 2023 and is planned to be completed in January 2023. The overall scope of work developed and executed for this PDI included the following tasks:
 - Update the current Site hydrogeologic conceptual site model (HCSM).
 - Perform surface geophysical survey consisting of Electrical Resistivity Imaging (ERI) and Electrical Self-Potential (SP) methods for identifying most advantageous location for borings.
 - Advance two exploratory boreholes and collect detailed subsurface data to include lithologic descriptions; soil, groundwater, and rock core sample collection; packer testing; downhole geophysical logging; and lugeon hydraulic conductivity testing.
 - Determine and implement disposition of each borehole – for example, monitoring well, tracer injection/extraction well, or temporary securement of open borehole at ground surface – to allow for future decisions on permanent borehole disposition.
 - Evaluate the need for permeation grout test borings and implement as warranted.

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 and corrective action related activities are planned for the CCR unit:

- Continue with implementation, evaluation, and reporting of the PDI efforts as part of the Permeation Grouting Pilot Program for the remediation of arsenic, lithium, and molybdenum. Following complete evaluation of Site data, a report summarizing the findings and recommended future remedial techniques for the Site will be prepared.
- Conduct the first semi-annual groundwater monitoring event in the spring of 2024 and submit the Semi-Annual Groundwater Monitoring and Corrective Action Report to ADEM by July 31, 2024.

Pursuant to 40 § CFR 257.90(e)(6), an **Executive Summary Table** has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

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

Assessment Monitoring Initiated: January 15, 2018
 Monitoring Period: January 1 - December 31, 2023
 Beginning Status: Corrective Action
 Ending Status: Corrective Action

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	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-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-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-8, GN-AP-MW-9, 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.

Appendix IV SSLs

Parameter	Wells
Lithium	GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, GN-AP-MW-20.
Molybdenum	GN-AP-MW-15R, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-20.
Combined Radium 226 + 228	*N/A

* 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

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

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ABBREVIATIONS

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)
HCSM	Hydrogeologic conceptual site model
LCL	Lower Confidence Limit(s)
m	meter
mg/L	milligram per liter
MNA	monitored natural attenuation
NAVD88	North American Vertical Datum of 1988
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
PDI	Pre-Design Investigation
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PQL	practical quantitation limit
PRA	Potential remediation area
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 increases
SSL	statistically significant levels
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), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and AO No. 18-095-GW, this 2023 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document semi-annual groundwater monitoring activities at the Plant Gaston Ash Pond. Semi-annual monitoring and associated reporting for the Ash Pond is performed in accordance with the monitoring requirements 40 CFR § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

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 corrective action and implementing the pre-design investigation in regards to the selected groundwater remedies identified in the Groundwater Remedy Selection Report. In accordance with 40 CFR § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. Statistically significant increases (SSI) of Appendix III and statistically significant levels (SSL) of Appendix IV parameters were identified at the Ash Pond during sampling events conducted in 2019. Pursuant to 40 CFR § 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 40 CFR § 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 to the 2018 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2019. In response to ADEM's comments on the ASD, the ASD was updated and submitted along with the 2020 Annual Groundwater Monitoring Report. This ASD was approved by ADEM in a correspondence letter dated May 18, 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 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 40 CFR § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9), APC will continue semi-annual groundwater monitoring, including all monitoring wells in the certified groundwater monitoring system and any well installed to characterize the horizontal and vertical extent of SSL.

3.0 SITE LOCATION AND DESCRIPTION

Alabama Power Company (APC) E.C. Gaston Steam Plant (Plant Gaston) is located 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 the North American Vertical Datum of 1988 (feet NAVD88) in the Coosa Valley district of the Valley and Ridge physiographic province. The Coosa Valley extends approximately 100 miles from southwest to northeast, with a width averaging 20 miles (Sapp and Emplaincourt, 1975). Local topography is characterized by moderate relief with elevations ranging from approximately 395 feet NAVD88 along the eastern plant boundary to approximately 530 feet NAVD88 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 within the Coosa Valley district of the Valley and Ridge physiographic province of central Alabama. The plant is on a portion of the Valley and Ridge province known as the Coosa deformed belt, which is defined as 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).

Boring logs from various on-Site investigations indicate the Ash Pond is underlain by an 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 because fill and embankment materials were used around the periphery of the Ash Pond. Beneath the Ash Pond, the shallow subsurface bedrock geology is composed entirely of dolomites of the Knox Group, upper part. The upper part of the Knox Group is described as a light- to dark-gray, stylonodular to massive, mostly micritic limestone to a light- to medium-gray, microcrystalline to medium-crystalline, thick-bedded dolomite. These units typically weather to a clay-rich and chert residuum. Across the Site, the upper portion of the Knox Group is encountered between elevations 440 and 378 feet NAVD88, with the most common occurrence between 405 and 385 feet NAVD88. Geologic cross-sections (GSA, 2012) indicate that the Knox Group, upper part extends down to an elevation close to -2,000 feet NAVD. The thickness of the Knox Group, upper part is close to 2,400 feet in the vicinity of the Ash Pond.

No faults have been mapped underneath the Ash Pond. A small splay thrust fault has been mapped in the area (Szabo, 1969, Frings, 1981) closer to the plant proper. 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 because 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 groundwater (Kopaska-Merkel *et al.*, 2005).

At the Site, the uppermost aquifer consists of dolomite and lesser amounts of limestones of the Knox Group, upper part. Beneath the Ash Pond, the Knox Group, upper part is approximately 2,400 feet thick. 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. Groundwater recharge to the uppermost aquifer is primarily from precipitation and vertical flow through the clay and silt dominated overburden.

3.2.2 Flow Interpretation

The local groundwater flow pattern at the Site, based on potentiometric surface contour maps, 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 monitoring locations. Groundwater flow in these areas is towards the rim ditch located along the boundary of the Ash Pond.

Groundwater flow at the Site is dominated by fractured flow and other secondary discontinuities within the rock fabric such as weathered zones and bedding planes. Groundwater flow in rock aquifer systems is influenced by the structural strike and dip of bedding planes to varying degrees depending on dip magnitude, relative resistance to flow in bed-parallel and cross-bed directions, and orientations to hydraulic gradient. In some cases, groundwater does not flow exactly perpendicular to the head gradients, in a process called flow distortion, as illustrated by potentiometric surface contours. In the Plant Gaston area, the strike of rock is typically to the north-northeast and structural dip is most commonly towards the east and southeast in the 10 to 40+ degree range. Some degree of preferential groundwater flow may occur away from the Site in these directions, although mitigated or reduced by the relatively few bedding planes due to the thick to massive-bedded nature of the Knox, upper part.

Vertical hydraulic gradients support an upward migration of groundwater from deeper intervals of the uppermost aquifer to more shallow intervals. Vertical hydraulic gradients also support the localized presence of semi-confining to confining conditions between flow intervals of the uppermost aquifer. Where hydraulic connections exist, multiple years of monitoring data suggest upward flow.

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to 40 CFR § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Gaston has installed a groundwater monitoring network to evaluate groundwater quality within the uppermost aquifer. The certified groundwater monitoring network for the Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit. Well locations were sited 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. To the west and south, electrical resistivity imaging (ERI) was conducted to evaluate for preferential groundwater flow intervals and horizons of potentially higher yield groundwater. The results of the ERI study provided a guide for locating and screening monitoring wells. 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.

With ADEM approval, additional upgradient wells were installed east-southeast of the Ash Pond in February 2021. Suitability of these well locations as viable background or upgradient locations have been evaluated as described in the Site Groundwater Monitoring Plan (April 2020, August 2020), and they 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 through GN-AP-MW-42 are suitable as upgradient wells because:

- (1) The wells are located on the opposite side of the river, which forms a hydraulic divide or barrier to groundwater flow from the north.
- (2) The wells were installed in similar carbonate dominated lithology.
- (3) Low concentrations of Appendix III parameters confirm 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	J-Flagged Results
GN-AP-MW-38	Boron	6	0	0	0.00	mg/L	6	0
	Calcium	6	20.4	23.3	22.25	mg/L	0	0
	Chloride	6	4.26	6.09	5.06	mg/L	0	0
	pH Field	6	7.78	8.18	7.97	SU	0	0
	Sulfate	6	1.28	12.6	4.63	mg/L	0	1
GN-AP-MW-39	Boron	6	0	0	0.00	mg/L	6	0
	Calcium	6	35	36.4	35.73	mg/L	0	0
	Chloride	6	2.06	2.94	2.46	mg/L	0	0
	pH Field	6	6.85	7.58	7.16	SU	0	0
	Sulfate	6	11.4	14.6	13.37	mg/L	0	0
GN-AP-MW-40	Boron	6	0	0.0342	0.01	mg/L	5	1
	Calcium	6	20	22.9	21.52	mg/L	0	0
	Chloride	6	1.74	4.13	2.36	mg/L	0	0
	pH Field	6	7.12	8.04	7.67	SU	0	0
	Sulfate	6	0	7.23	2.01	mg/L	1	3

GN-AP-MW-41	Boron	6	0	0	0.00	mg/L	6	0
	Calcium	6	26.6	31.7	28.98	mg/L	0	0
	Chloride	6	2.15	3.05	2.61	mg/L	0	0
	pH Field	6	6.8	7.75	7.34	SU	0	0
	Sulfate	6	1.37	2.99	1.98	mg/L	0	2
GN-AP-MW-42	Boron	6	0	0	0.00	mg/L	6	0
	Calcium	6	11	15.4	12.55	mg/L	0	0
	Chloride	6	3.29	4.18	3.76	mg/L	0	0
	pH Field	6	5.87	6.52	6.17	SU	0	0
	Sulfate	6	1.65	4.92	2.89	mg/L	0	1

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 on water availability, groundwater recharge rates, 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 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 were installed to characterize the horizontal and vertical extent of groundwater protection standards (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 groundwater monitoring program.

3.3.1.4 Piezometers

Piezometer locations GN-APW-1, GN-APW-3, GN-APW-4, GN-APW-6, and GN-APW-7 are characterized as porewater piezometers installed and screened within the Plant Gaston CCR unit. These

locations are used as water-level only piezometers with depth-to-water measurements collected during each semi-annual monitoring event. Well location GN-AP-MW-31V was originally installed as a delineation well but did not produce sufficient volumes of groundwater required for sampling. It is not currently being sampled and is being utilized as a water-level only piezometer. **Table 1c, Piezometer Well Network Details** provides a list of piezometer locations along with well construction details.

3.3.1.5 Monitoring Well Replacement and Abandonment

During the semi-annual monitoring period, monitoring well replacement or abandonment activities were not performed. **Table 1d, Abandoned Well Network Details** provides a list of monitoring wells previously abandoned and summarizes their historical construction details and design purpose.

3.4 GROUNDWATER MONITORING HISTORY

In accordance with 40 CFR § 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 SSL 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, occasional

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, Analytical Data Summary**.

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, new 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 in: (1) late winter to mid-spring and (2) early to late fall. The temporal spacing between sampling events is sufficient to ensure sampling events yield independent groundwater samples that generally represent different climatic or meteorological seasons that present 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.

The following subsections summarize the sequential steps and process for the sampling, handling and 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 40 CFR § 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. All downhole groundwater sampling equipment was calibrated prior to sample collection per the

manufacturer's specifications outlined in the Alabama Power Environmental Affairs (EA) Water and Field Group (WFG) Technical Standard Operating Procedure, dated December 14, 2021.

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 events are included in **Appendix C, Laboratory and Field Records**.

3.5.2 Sample Preservation and Handling

Groundwater samples were collected in 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) in Greensburg, Pennsylvania. Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. **Table 2, Parameters and Reporting Limits** lists monitoring constituents analyzed from Site groundwater samples. Laboratory analytical data reports for the monitoring events are presented in **Appendix C**.

3.5.5 Monitoring Period Sampling Events

As required by 40 CFR § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(e), the following describes monitoring-related activities performed during the semi-annual monitoring period. The first 2023 semi-annual groundwater monitoring event took place between January 23, 2023, and February 7, 2023.

The second 2023 semi-annual groundwater monitoring event took place between July 17, 2023 and August 1, 2023.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during the corrective action monitoring event. During the 2023 annual sampling events, additional general chemistry and monitored natural attenuation 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 performed the laboratory analyses of Radium-226 and Radium-228 (reported combined). APCEL performed the remaining Appendix III, Appendix IV, general chemistry, and MNA parameter analyses. Analytical data from the groundwater monitoring event are included as **Appendix C** in accordance with the requirements of 40 CFR § 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 2023 semi-annual sampling event, groundwater elevations ranged from 396.04 to 430.49 feet North American Vertical Datum of 1988 (NAVD88). **Figure 6A, Potentiometric Surface Contour Map (January 23, 2023)**, depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

During the second 2023 semi-annual sampling event, groundwater elevations ranged from 395.41 to 425.66 feet NAVD88. **Figure 6B, Potentiometric Surface Contour Map (July 17, 2023)**, depicts groundwater elevations and inferred groundwater flow direction from higher elevation to lower.

As shown on **Figures 6A and 6B**, 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 6A and 6B**, 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. If hydraulically connected, this would drive deeper groundwater to flow vertically upward to more shallow intervals. 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 suggests varying degrees of hydraulic confinement between Knox Group, upper part intervals beneath the Site.

Potentiometric surfaces also show that groundwater flow proximal to recently installed and potential upgradient locations is 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**.

4.1 GROUNDWATER ELEVATION CHANGES

Groundwater elevations in multiple well locations were identified as potential lowerbound outliers based on 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 dewatering of the ash pond has had a detectable impact in groundwater elevations observed. A review of groundwater elevation data identified well locations displaying groundwater elevations below the lower bound threshold located along the eastern and western dikes where active dewatering is ongoing. The continual decline previously observed in groundwater elevations is likely attributed to pumping from the wellpoint network positioned

within the ash pond footprint. The wellpoint system is used for shallow groundwater dewatering during excavation and closure activities on the Site.

Groundwater elevation data collected and evaluated from the first 2023 semi-annual sampling event exhibited an increase in elevations. Groundwater elevation data collected and evaluated from the second 2023 semi-annual groundwater monitoring event generally exhibit a slight elevational decrease compared to the distinct increase from the preceding event. This differential can likely be attributed to precipitation volumes recorded at the plant during mid-July (dry season). Many of the recent groundwater elevations reflect those recorded in August 2022. The constant dewatering using multiple wellpoint systems within the CCR footprint is likely another cause for the variability observed.

4.2 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 an interval of one sample per group of 10 well locations. 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 could potentially result in qualified data. **Table 4a, Relative Percent Difference (RPD) Calculations** provides the RPDs for sample and sample duplicates during the monitoring period. All RPDs were below 20% for the 2023 annual monitoring period.

Analytical data reviewed provided low-level or trace detections in field and/or equipment blanks during the monitoring period. **Table 4b, Field QC: Blank Detections**, provides a summary of low-level detections observed during the 2023 annual monitoring period. 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 on the blank concentration.

Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation or (2) constituents flagged are not Site constituents of interest (COI). The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L. During the first 2023 semi-annual monitoring event, molybdenum was detected in a field blank sample (FB-2) collected during groundwater sampling on January 24, 2023. The low-level detection of 0.00014 mg/L is reported as an estimate concentration by the laboratory and qualified with a “J flag.” During the second 2023 semi-annual sampling event, five chromium detections and one molybdenum detection were identified at low-level concentrations in six total field and equipment blanks from July 19, 2023 to August 1, 2023. These low-level detections are reported as an estimate concentration by the laboratory and qualified with a “J flag.”

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 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 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 corrective action, 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 (UTL) 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 on 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 40 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 corrective action, 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 monitoring period 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 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 Analyses**, Appendix III constituents have not returned to background levels. A summary of Appendix III SSIs is provided in the **Executive Summary Table** previously referenced.

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 and second semi-annual groundwater monitoring events performed in 2023.

5.3.2.1 First Semi-Annual Groundwater Monitoring Event

During the first 2023 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 SSL 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.

Lithium concentrations in well GN-AP-MW-15R have decreased to below the GWPS during the last five sampling events as part of a significant downward trend that began between September 2019.

Table 6, First Semi-Annual Monitoring Event Analytical Results Summary, provides a summary of all detected constituents for the first 2023 semi-annual groundwater 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 during the first 2023 semi-annual event:

- 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, Molybdenum.
- GN-AP-MW-33V: Arsenic, Lithium, Antimony.
- GN-AP-MW-34V: Molybdenum.
- GN-AP-MW-37V: Lithium, Molybdenum.

First-time GWPS exceedances were identified for the Appendix IV parameters antimony and total radium in well GN-AP-MW-33V, and total radium in well GN-AP-MW-16, from analytical results collected during the first 2023 semi-annual groundwater monitoring event.

5.3.2.3 Second Semi-Annual Groundwater Monitoring Event

During the second 2023 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 SSL over GWPS at the listed downgradient wells:

- GN-AP-MW-15R: Molybdenum.
- GN-AP-MW-16: Combined Radium 226+228, Lithium, Molybdenum.
- GN-AP-MW-17: Lithium, Molybdenum.
- GN-AP-MW-18: Lithium.
- GN-AP-MW-20: Lithium, Molybdenum, and Combined Radium (226 + 228).

Table 7, Second Semi-Annual Monitoring Event Analytical Results Summary, provides a summary of all detected constituents for the second 2023 semi-annual groundwater sampling event.

5.3.2.4 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 during the second 2023 semi-annual event:

- GN-AP-MW-16V: Lithium, Molybdenum, Antimony.
- GN-AP-MW-17SV: Lithium, Molybdenum.
- GN-AP-MW-17V: Combined Radium 226 + 228, Lithium, Molybdenum, Antimony.
- 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: Arsenic, Lithium, Antimony.
- GN-AP-MW-34V: Molybdenum. GN-AP-MW-37V: Molybdenum.

First-time GWPS exceedances were identified for the Appendix IV parameter antimony at wells GN-AP-MW-16V and GN-AP-MW-17V from analytical results collected during the second 2023 semi-annual groundwater monitoring event. At well GN-AP-MW-32V, molybdenum concentrations decreased to below GWPS, whereas concentrations were reported as in exceedance during the first 2023 semi-annual event.

An ASD for combined radium 226+228 was submitted as an appendix to the 2018 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2019, demonstrating that the source of radium was naturally occurring. After providing additional information, the ASD was subsequently approved by ADEM in a correspondence letter dated May 18, 2021. Therefore, exceedances for combined radium have been shown to be naturally occurring and are not included as actual Site SSL. However, if statistical evaluation of groundwater analytical data collected during semi-annual events identifies combined radium (226 + 228) as an SSL, it will be documented within the most recent report's executive summary table.

To address SSL 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 40 CFR § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM 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 were performed, and the Groundwater Remedy Selection Report was submitted in November 2021. This report documents in detail the selected remedies, positive impacts of pond closure, expected or potential performance, and provides a 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 has 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 each year. Alabama Power Company (APC) requested approval on March 15, 2021 to combine information typically provided in the Semi-Annual Progress Reports with Semi-Annual Groundwater Monitoring and Corrective Action Reports. ADEM approved this approach and the revised timeline for submittals on March 16, 2021. APC now provides ADEM with a discussion of delineation results and activities in each semi-annual groundwater monitoring and corrective action report 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 following sections describe monitoring wells installed to delineate impacts to groundwater.

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

Phase I was conducted from November 29, 2018 to March 8, 2019. **Table 1b** and **Figure 5** present details of the CCR monitoring well network and locations of onsite delineation wells. The following summarizes all activities 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 11 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 a Groundwater Investigation Report to ADEM 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 ADEM on July 11, 2019, as required by Part C of the Order.
- Submitted a Phase II – Groundwater Delineation Plan to ADEM on August 15, 2019. This plan documented planned activities associated with proposed Phase II delineation efforts.
- On December 30, 2019, provided ADEM with a response to comments received from ADEM 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 ADEM 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 from 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 location 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 two 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 from 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 using air-lifting techniques was performed while drill team personnel were onsite 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 five ash samples and sampling of ash pore-water at three locations were 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 are 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 next 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 to aid in determining 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 and zones, or groundwater saturation. The 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 Concentrations Along Geologic Cross Section B-B', show arsenic concentrations from the first 2023 semi-annual sampling event.

Figure 9A, Arsenic Concentration Call-Out Map and **Figure 10A, Arsenic Concentrations Along Geologic Cross-Section B-B'**, show arsenic concentrations from the second 2023 semi-annual sampling event. As indicated on these figures, arsenic concentrations exceeded the GWPS during both events 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, arsenic in well GN-AP-MW-33V has exceeded the GWPS six of eight times sampled with an average concentration of 0.011 mg/L. Concentrations are exhibiting a downward overall trend, with the most recent concentration only slightly above the GWPS (0.0108 mg/L). Arsenic concentrations appear to be dependent on or driven by DO, iron, and ORP. 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.

Previously, arsenic 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 seven sampling events. The 14 sampling events prior had a 100% exceedance rate; however, a noticeable declining trend appears to have begun early in 2018, and concentrations decreased below the historical concentration range during 2019 sampling events. The last three sampling events reflect arsenic levels at their lowest concentrations at the well location.

As shown on **Figures 5, 7A, 8A, 9A, and 10A**, 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 support 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

Figure 7B, Lithium Concentration Call-Out Map, and **Figure 8B, Lithium Concentrations Along Geologic Cross Section B-B'**, show lithium concentrations from the first 2023 semi-annual sampling event. **Figure 9B, Lithium Concentration Call-Out Map**, and **Figure 10B, Lithium Concentrations Along**

Geologic Cross Section B-B', show lithium concentrations from the second 2023 semi-annual sampling event.

As shown on **Figures 7B and 9B**, 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 (0.04 mg/L) at compliance well GN-AP-MW-15R. However, concentrations have dropped steadily and significantly since September 2019 (0.186 mg/L). Lithium concentrations have been reported below the GWPS over the last five sampling events beginning in September of 2021.

Figures 8B and 10B show that the extent of lithium southeast of the Site has been delineated in the vertical extent. Historically, well GN-AP-MW-37V has exhibited lithium concentrations slightly over the GWPS. However, concentrations in well GN-AP-MW-37V were reported at 0.038 mg/L during the most recent sampling event, below the GWPS. The average concentration from all eight events is slightly above the GWPS (0.047 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 six sampling events, with the two most recent events below the GWPS.

Figures 8B and 10B also show that lithium concentrations are generally the highest between elevations 300 and 360 feet NAVD88 where preferential flow was indicated from ERI geophysical imaging. The 0.04 mg/L contour line presented on these figures indicates that lithium concentrations above the GWPS extend from the top of rock (380 to 370 feet NAVD88) to an elevation of roughly 145 feet NAVD88. 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 feet NAVD88 is likely a more weathered or fractured layer of dolomite.

6.3.3 Molybdenum Delineation

Figure 7C, Molybdenum Concentration Call-Out Map, and Figure 8C, Molybdenum Concentrations Along Geologic Cross Section B-B', show molybdenum concentrations from the first 2023 semi-annual sampling event. **Figure 9C, Molybdenum Concentration Call-Out Map and Figure 10C, Molybdenum Concentration Along Geologic Cross Section B-B'** show molybdenum concentrations from the second 2023 semi-annual sampling event.

As shown on **Figures 7C, 8C, 9C, and 10C**, 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.

Molybdenum – Western Delineation

Historically, downgradient compliance well GN-AP-MW-5 has been the only well location exhibiting a GWPS exceedance for molybdenum to the west. During the February 2020 sampling event, molybdenum concentrations in well GN-AP-MW-5 decreased to 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. Recent time series data appear to show 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 concentrations decreasing to below GWPS during the last six 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 near well GN-AP-MW-5. These wells are located to the west of the Plant Gaston Ash Pond on APC-owned property. Most recent concentrations at these locations have been reported well below GWPS. The most recent molybdenum concentration in well GN-AP-MW-5 was 0.0335

mg/L – exhibiting concentrations hovering near 0.03 mg/L and reflecting 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 **Figures 8C** and **10C**.

Like lithium, molybdenum in well GN-AP-MW-15R has been trending downward steadily and significantly. This downward trend began in April of 2019 and decreased from 0.43 to 0.14 mg/l in September of 2021. Reported concentrations have remained stable over the last five sampling events, with values oscillating around 0.14 mg/L.

Geologic and geochemical data provided on **Figures 8C** and **10C** show that molybdenum has been delineated in the vertical sense to a sufficient degree for remedy selection. These figures show that molybdenum concentrations are generally the highest between elevations 300 and 360 feet NAVD88 near the 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 feet NAVD88 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.

Figures 8C and **10C** show 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 **Figures 8C** and **10C** indicate that molybdenum concentrations above the GWPS extend from the top of rock (380 to 370 feet NAVD88) to elevations ranging from 250 ft to 190 feet NAVD88 between wells GN-AP-MW-16V and GN-AP-MW-35V. To the northeast, **Figures 8C** and **10C** show that molybdenum exceedances are relatively shallow in comparison, with concentrations above the GWPS, extending with depth to roughly 340 feet NAVD88 in the vicinity of well GN-AP-MW-15R.

Vertical delineation wells GN-AP-MW-35V and GN-AP-MW-36V show vertical delineation of molybdenum to elevations near 100 feet NAVD88. Vertical delineation well GN-AP-MW-37V exhibited

a GWPS exceedance during the most recent event. However, the distribution and extent of molybdenum exceedances in groundwater is established well enough to develop a remedial strategy to address the occurrence. Concentrations of molybdenum in well GN-AP-MW-37V have trended downward over the last five sampling events from 0.227 mg/L (September 2021) to 0.121 mg/L (July 2023). The most recent concentration of 0.121 mg/L is just above the GWPS of 0.1 mg/L. In aggregate, molybdenum concentrations in the area appear stable. Molybdenum concentrations in well GN-AP-MW-17 have shown a 0.03 mg/L decrease from the previous event and appear to hover around 3.0 mg/L.

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 was selected to achieve delineation. This program was proposed in the February 2022 Groundwater Corrective Action Monitoring Program document.

The vertical extent of impacts has been established and delineated. The lone exception is the deep vertical delineation well GN-AP-MW-37V, which only slightly exceeds the GWPS for molybdenum. As shown on the presented figures, a sufficient number of vertical delineation wells, geological data, and geochemical data exists to evaluate remedial options southeast of the Site. Additional deeper vertical delineation efforts in the vicinity of GN-AP-MW-37V is not 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.

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 were conducted to develop the detailed Groundwater Remedy Selection Report, submitted in November 2021, and the 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 based on site conditions and factors.
Groundwater Remedy Selection Report	11/2021	List 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 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 COI away from the source area. Permeation grouting can complement MNA, by sealing groundwater flow or slowing the flow path away from the source area to provide longer residence time for MNA processes to reduce COI concentrations. MNA was selected based on 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 divided the program into two stages.

- Stage 1 includes ongoing compliance monitoring, remedial effectiveness monitoring for permeation grouting, MNA performance monitoring, sentinel and clean-line monitoring (including surface water monitoring), and demonstrating that Site conditions remain protective of potential human and ecological receptors. Prompt action will be taken if data or data trends indicate appropriate action is warranted.
- Stage 2 monitoring will be implemented upon Site closure. The first 2 years of Stage 2 monitoring will consist 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 demonstrating 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 Tasks
Monitored Natural Attenuation	<ol style="list-style-type: none"> 1. Implement expanded MNA sampling parameters. 2. Further assess MNA monitoring network.
Permeation Grouting Program	<ol style="list-style-type: none"> 1. Plan, work scope development, and field program for detailed characterization of fracture flow characteristics and data needs to support a pilot permeation grouting program. 2. Implement Permeation Grouting Pilot Program using data collected from detailed characterization.

Selected Remedy	Implementation Tasks
Source Control/Closure Activities	<ol style="list-style-type: none"> 1. Evaluate geochemical changes in groundwater with respect to transient closure activities such as excavation and dewatering. 2. Implement field data collection instruments and 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 first 2023 semi-annual sampling event (**Table 6**). In addition to field parameters, the parameters in Appendix III and Appendix IV are used 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.

Permeation Grouting Pilot Program

A Pre-Design Investigation (PDI) Work Plan has been drafted (**Section 6.5.4**) to outline the methods and implementation for the complete geologic and hydrogeologic characterization of the area of the site selected for the pilot study. This plan for the detailed characterization of fracture flow through the Knox Group Formation includes standards for core logging, downhole geophysical methods, hydrogeophysical methods, and aquifer performance testing. The plan will be executed in the field and the data analyzed to complete the initial study or foundation phase of the Permeation Grouting Pilot Program.

These tasks are associated with the initial foundation phase:

- Desktop study of injectability of bedrock and injection treatability studies.
- Fracture-flow field study and data analyses.
- Permeation grouting pilot program, pending requisite documents and approvals supporting the injection program.

Source Control and Closure Activities

The primary tasks and objectives at the start 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 could be the result of physical closure activities, and (3) determining primary mechanisms and geochemical relationships related to changing geochemical conditions. Understanding the mechanisms and relationships leading to geochemical changes in groundwater provides an opportunity to further understand natural MNA processes at the site and to document the benefits and impacts of source control as closure progresses.

As part of the Semi-Annual Monitoring Reporting process, groundwater quality is evaluated on:

- Concentration trends by analyte, locations, and in aggregate.
- Geochemical correlations.
- Concentration trends and geochemical correlations cross-referenced by recent or active ash pond closure activities.

AquaTROLL instrumentation has been installed at select key monitoring well locations for the near-continuous monitoring of groundwater field parameters. These additional data provide a better understanding of changes due to different types of closure activities, the response of site flow systems, and possible correlations and changes noted in semi-annual monitoring data. In response to the Site PDI activities performed in December 2023, instrumentation was relocated to well locations proximal to the exploratory boreholes. Currently, instruments are employed at wells GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-16, GN-AP-MW-16V, GN-AP-MW-17, GN-AP-MW-17SV, GN-AP-MW-17V, GN-AP-MW-18, and GN-AP-MW-28H.

6.5.3 Update on Monitoring Period Activities

Site activities focused on corrective action were commenced, performed, or completed during the 2023 annual monitoring period. The core activities included:

- Sampling of general chemistry and MNA parameters.
- Collection of continuous groundwater monitoring field parameter data for evaluation from recently deployed AquaTROLL instrumentation.
- Desktop study and report of the in situ groundwater treatment for injectability of bedrock and injection treatability studies at potential remediation areas (PRA).
 - Selection of potential locations where a field pilot test could be appropriate based on stratigraphy, COI at statistically significant levels in groundwater, available bedrock characterization data, and physical accessibility.

- Treatability studies have been performed to evaluate reagent composition, dosing, effectiveness, and sequencing (if applicable) for in situ groundwater treatment of COI using injection.
- Bedrock core sample laboratory analysis of geochemistry (cation exchange capacity; aluminum-, manganese-, and iron-oxide extractions; bulk chemistry; mineralogy; and microanalysis for COI in fracture fill) and physical parameters (matrix hydraulic conductivity, porosity, and bulk density)
 - The geochemistry results will inform the treatability studies described above. The physical parameters will be used in the predictive modeling as detailed below. Both the geochemical and physical analyses will inform the design and implementation of the field pilot tests.
- Biogenic study (in conjunction and coordination with Auburn University) to assess the native microbial properties of the soil and groundwater to identify a suitable or advantageous chemical injectate solution for in situ treatment.
- Preliminary modeling of the hydraulics of potential reagent injections that could be performed to treat COI in fractured bedrock.
 - The input parameters for this modeling include hydraulic gradients and groundwater flow directions, depths to groundwater, hydraulic conductivities, mean fracture porosities, and potential treatment zone depths. The results of this preliminary modeling include estimates of injection rates, durations, and volume and areal extent of treatment solution delivery.
- Completed a PDI Work Plan outlining the scope of work and rationale for performing the pre-design investigation for potential injection treatment and/or permeation grouting.

6.5.4 Pre-Design Investigation

The PDI field activities commenced in November 2023. The proposed work plan focused on well GN-AP-MW-17 as the PRA of interest for the PDI. The objective of the PDI is to provide data specific to the GN-AP-MW-17 PRA to enable predictive groundwater modeling and to inform the design of a pilot test. Additionally, the investigation will identify data gaps in subsurface lithologic/hydrogeologic data to include:

- Bedrock fracture data
 - Fracture orientations
 - Fracture apertures and spacings
- Hydraulic data
 - Bulk hydraulic conductivity

- Hydraulic responses between wells
- Groundwater transport continuity between wells
 - Proof of flow path continuity between and among wells
- Aquifer matrix characteristics
 - Mineralogy and geochemical properties of fracture surfaces and rock matrix
- Groundwater characteristics
 - COI concentrations
 - Groundwater geochemical properties

The overall SOW developed for this PDI proposed the following tasks:

- Update the HCSM.
- Perform a surface geophysical survey consisting of electrical resistivity imaging (ERI) and the self-potential (SP) method for identifying the most advantageous location for advancing borings.
- Implement groundwater level monitoring.
- Advance two exploratory boreholes.
- Collect detailed borehole data, including the following:
 - Detailed soil and core descriptions and sample collection.
 - Packer testing in approximate 25-foot intervals (hydraulic testing and discrete groundwater sampling using extraction of groundwater).
 - Downhole geophysical logging, to include conventional tools as well as an optical/acoustic borehole televiewer, heat pulse flowmeter (HPFM), cross-borehole resistivity, and nuclear magnetic resonance (NMR) [only in existing monitoring wells].
 - Lugeon hydraulic conductivity testing.
- Determine and implement disposition of each borehole – for example, monitoring well, tracer injection/extraction well, or temporary securement of open borehole at ground surface – to allow for future decisions on permanent borehole disposition.
- Evaluate the need for tracer testing and implement as warranted.
- Evaluate the need for permeation grout test borings and implement as warranted.

Laboratory analysis of soils will include pertinent COI, lithium and molybdenum, iron, manganese, total organic carbon, sulfides, and grain-size distribution. Select samples of overburden (soil) will be submitted to certified laboratories for pertinent COI, moisture content, soil oxidant demand, extractable aluminum, manganese, iron oxides, soil pH and acid-neutralizing capacity, and cation exchange capacity. Rock core samples will be analyzed for the presence of weathered fractures in addition to pertinent COI, porosity and bulk density, moisture content, rock oxidant demand, rock pH, and acid-neutralizing capacity.

The PDI results, including the Lugeon hydraulic conductivity testing, will determine the need for and location of permeation grout test boreholes. The permeation grout testing may include an array of five test boreholes consisting of two rows with its long axis oriented perpendicular to the groundwater flow direction.

The data collected during the PDI investigation will be compiled, analyzed, and presented in a report. The report will include an updated HCSM that will be used to summarize the hydrogeologic attributes of the PRA. The updated HCSM will also provide the input parameters for predictive numerical modeling, which will be used to evaluate pilot test designs for the potential remedial options of geochemical manipulation using permeation grouting.

6.6 GROUNDWATER QUALITY CHANGES AND TRENDS

Groundwater quality trends have been reviewed with respect to potential transient changes induced by ash pond closure and construction activities. As described in **Section 4.1**, groundwater elevations in multiple compliance monitoring wells have decreased to a statistically significant degree since active dewatering began in 2021. The data show closure operations were likely decreasing groundwater levels at the Site. Wellpoint systems are used continuously during closure activities for dewatering within the ash pond footprint. The observed groundwater level decreases over time were presumably a result of the pumping. During the most recent 2023 annual monitoring period, the gradual decrease in groundwater elevations rebounded in January and then demonstrated another decrease in July. This oscillatory pattern in elevations at select well locations throughout the year is likely attributed to the differentials in seasonal precipitation as well as the continual pumping from the wellpoint system. Cumulative monthly precipitation at the site in January was recorded at 10.6 inches versus 6.29 inches in July 2023.

Other important groundwater quality changes or trends are described in **Section 6.3**. The key findings include:

- Wells on the western boundary of the Site shows consistent decreasing trends in boron and conductivity. This trend began in 2019 or 2020 and is likely due to dewatering of the western clear pool and other closure activities.
- Arsenic concentrations in compliance well GN-AP-MW-17 decreased to below GWPS as part of a 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 a strong decreasing trend that began in September 2019 and have been below GWPS during the last five sampling events.
- Lithium concentrations have steadily decreased in vertical delineation well GN-AP-MW-33V since its primary exceedance in 2020.
- Molybdenum concentrations in compliance well GN-AP-MW-15R have decreased from a high of 0.433 mg/L in April of 2019 towards the GWPS (0.1 mg/L) to 0.129 mg/L during the most recent sampling event in August 2023.
- Molybdenum concentrations in compliance well GN-AP-MW-5 have decreased to below the GWPS during the last six sampling events beginning in April 2021.

- Lithium and molybdenum have shown subtle decreasing trends in deep vertical delineation well GN-AP-MW-37V.
- Starting in 2020, molybdenum and lithium concentrations increased in wells GN-AP-MW-16 and GN-AP-MW-18 (molybdenum only) to levels approaching the GWPS. Molybdenum in well GN-AP-MW-20 exhibits concentrations oscillating annually, with an overall increasing trend with time.
- Arsenic concentrations in delineation well GN-AP-MW-33V increased to a concentration above the GWPS in Fall 2021 but have decreased in the last four consecutive events. Concentrations have remained somewhat static at levels just above the GWPS (0.011 mg/L to 0.014 mg/L).

Aggregate Annual Average Trends

This section provides a summary of average annual concentrations in compliance wells (upgradient, downgradient, abandoned) since the first year of groundwater monitoring. These annualized averages will continue to be evaluated and reviewed each year to determine overall trends. Averages could be related to ash pond closure activities, geochemical disequilibrium and return to equilibrium processes, and abandonment or replacement activities.

Boron has decreased in average concentration in consecutive years. Compliance wells on the western boundary show the largest reduction in boron concentrations. These reductions appear to have started in two discrete timeframes: (1) beginning in 2019 (GN-AP-MW-4, GN-AP-MW-5) and (2) beginning in 2021 (GN-AP-MW-6, GN-AP-MW-21, and GN-AP-MW-22). Small increasing averages have been observed in southern and eastern compliance wells. These increases appear to have started in 2018. Sitewide, average boron concentrations began declining in 2019, with 2023 representing their lowest concentrations.

Average arsenic concentrations have decreased since 2018, and most significantly since 2020. The most significant contributors to reductions are the decreases observed in wells GN-AP-MW-15R, GN-AP-MW-17, and GN-AP-MW-21. Of these, only GN-AP-MW-17 had demonstrated a concentration over the GWPS. During the most recent semi-annual sampling event, only one arsenic concentration exceedance was detected, from the vertical delineation well GN-AP-MW-33V.

During the 2023 annual monitoring period, three first-time exceedances for antimony were reported in wells GN-AP-MW-16V, GN-AP-MW-17V, and GN-AP-MW-33V. Antimony was previously undetected throughout all sampling events at these wells until an observed concurrent spike in September 2022.

Average lithium and molybdenum concentration trends are dominated by localized increases in well GN-AP-MW-17, and to a lesser extent, GN-AP-MW-16 and GN-AP-MW-20 (molybdenum only). These increases appear to have started in 2020-2021 and are linked to similar increases in conductivity. This area of the Site is being evaluated for the permeation grouting pilot program, which would seal preferential groundwater flow paths and lengthen residence times. The table below lists aggregate averaged concentrations for site COI from 2016 to the most recent semi-annual sampling event conducted in 2023 (abandoned, upgradient and downgradient compliance well locations).

Year	Boron (mg/L)	Arsenic (mg/L)	Lithium (mg/L)	Molybdenum (mg/L)
2016	0.9252	0.0022	0.0429	0.1677
2017	0.9242	0.0020	0.0370	0.1603
2018	1.161	0.0023	0.0441	0.1636
2019	1.2206	0.0022	0.0573	0.1940
2020	1.2036	0.0017	0.0555	0.2203
2021	0.8825	0.0015	0.0550	0.2033
2022	0.8115	0.0014	0.0562	0.1831
2023	0.7977	0.0013	0.0692	0.1945

7.0 SUMMARY AND CONCLUSIONS

Statistical evaluations of groundwater analytical data collected during the first and second 2023 monitoring events identified SSL of Appendix IV constituents above the GWPS. To address previously identified SSL, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on November 30, 2021, and a Corrective Action Groundwater Monitoring Program plan on February 28, 2022. Focused efforts at the Site now shift toward planning, design, and implementation of remedies along with continued evaluation of routine assessment and compliance groundwater data. The following future actions will be taken or are recommended for the Site:

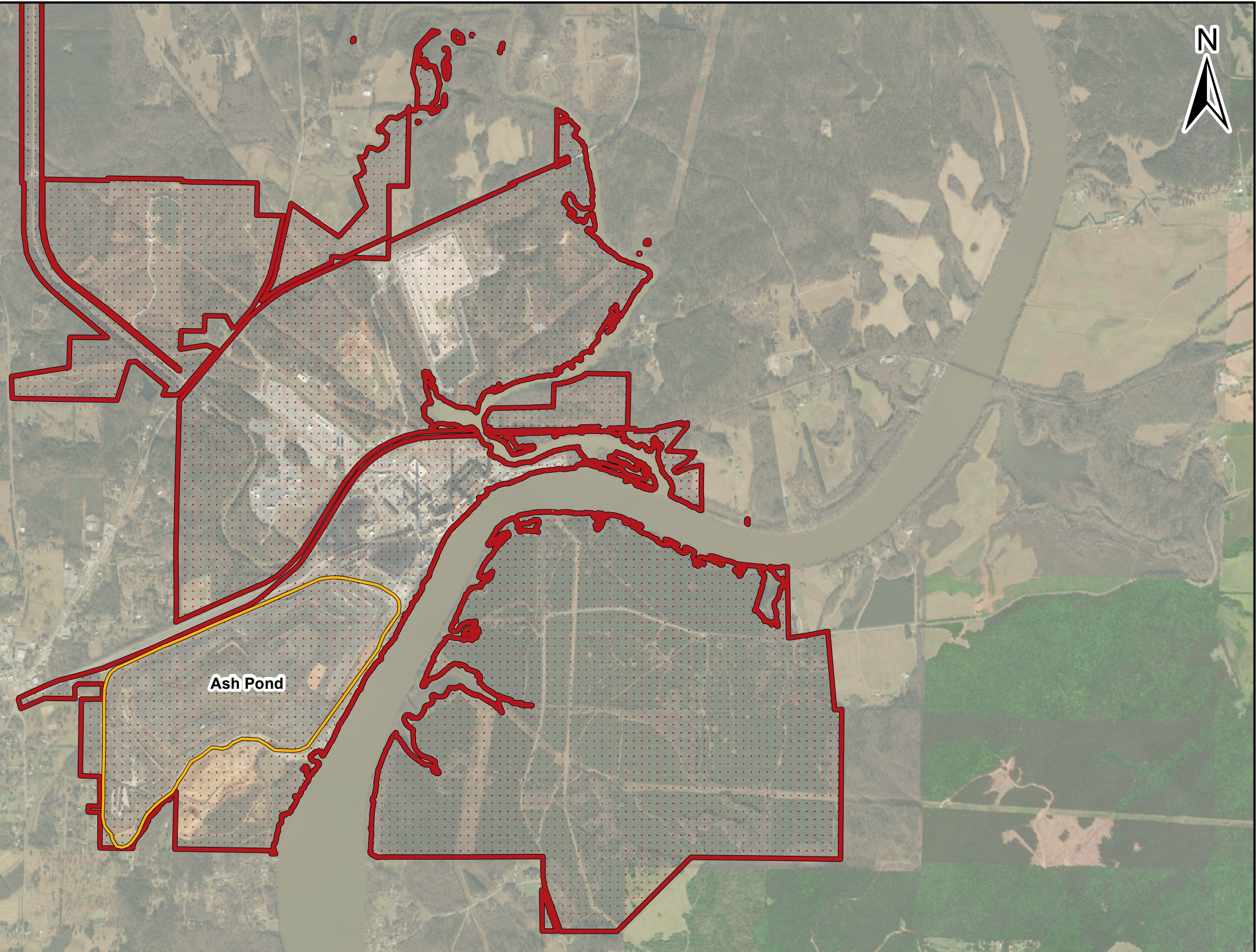
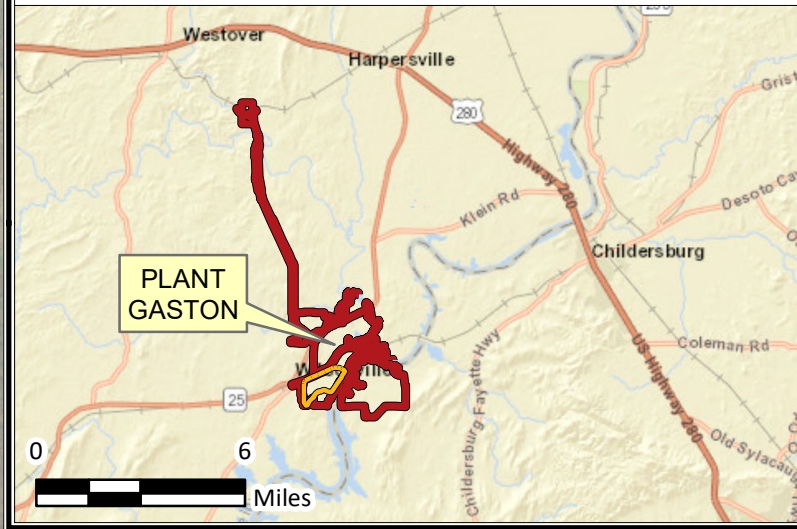
- Continue with implementation and evaluation of the PDI work plan as part of the Permeation Grouting Pilot Program for the remediation of arsenic, lithium, and molybdenum related to corrective action measures at the Site.
- Continue ongoing research to evaluate the applicability of the in situ groundwater treatment and assess technical and implementation feasibility of geochemical manipulation and enhanced MNA technologies.
- Following complete evaluation of Site data collected during the PDI, a report summarizing the findings and recommended future remedial techniques for the Site will be prepared.
 - The report will include an updated HCSM that will be used to summarize the hydrogeologic attributes of the PRA at well GN-AP-MW-17. The updated HCSM will also provide the input parameters for predictive numerical modeling, which will be used to evaluate pilot test designs for the potential remedial options of geochemical manipulation using permeation grouting.
- Conduct the first semi-annual monitoring event in the spring of 2024 and submit the Semi-Annual Groundwater Monitoring and Corrective Action Report summarizing the findings to ADEM by July 31, 2024.



8.0 REFERENCES

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- 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.

Figures

OVERVIEW MAP



- LEGEND**
-  Ash Pond Boundary
 -  Property Boundary (Approximate)



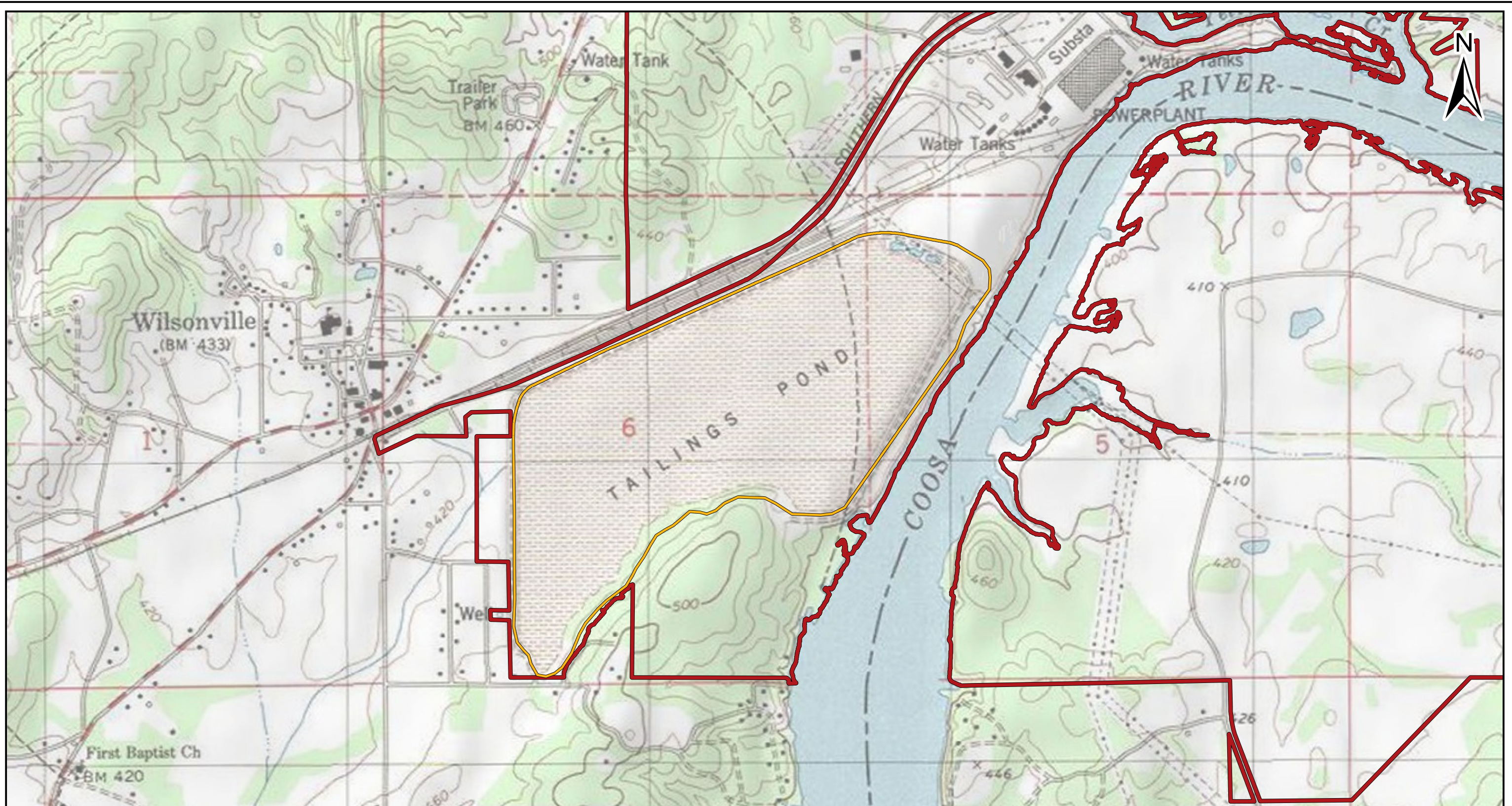
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
 Base Map: G-Squared LLC, Shelby County 2022, 1/11/2022 (west);
 Maxar Vivid Standard, 4/27/2019 (east)

SCALE	1:24,000
DATE	10/18/2023
DRAWN BY	KAR
CHECKED BY	AWH

DRAWING TITLE:
**SITE LOCATION MAP
 PLANT GASTON ASH POND**

FIGURE NO.
FIGURE 1





LEGEND

- Ash Pond Boundary
- Property Boundary (Approximate)



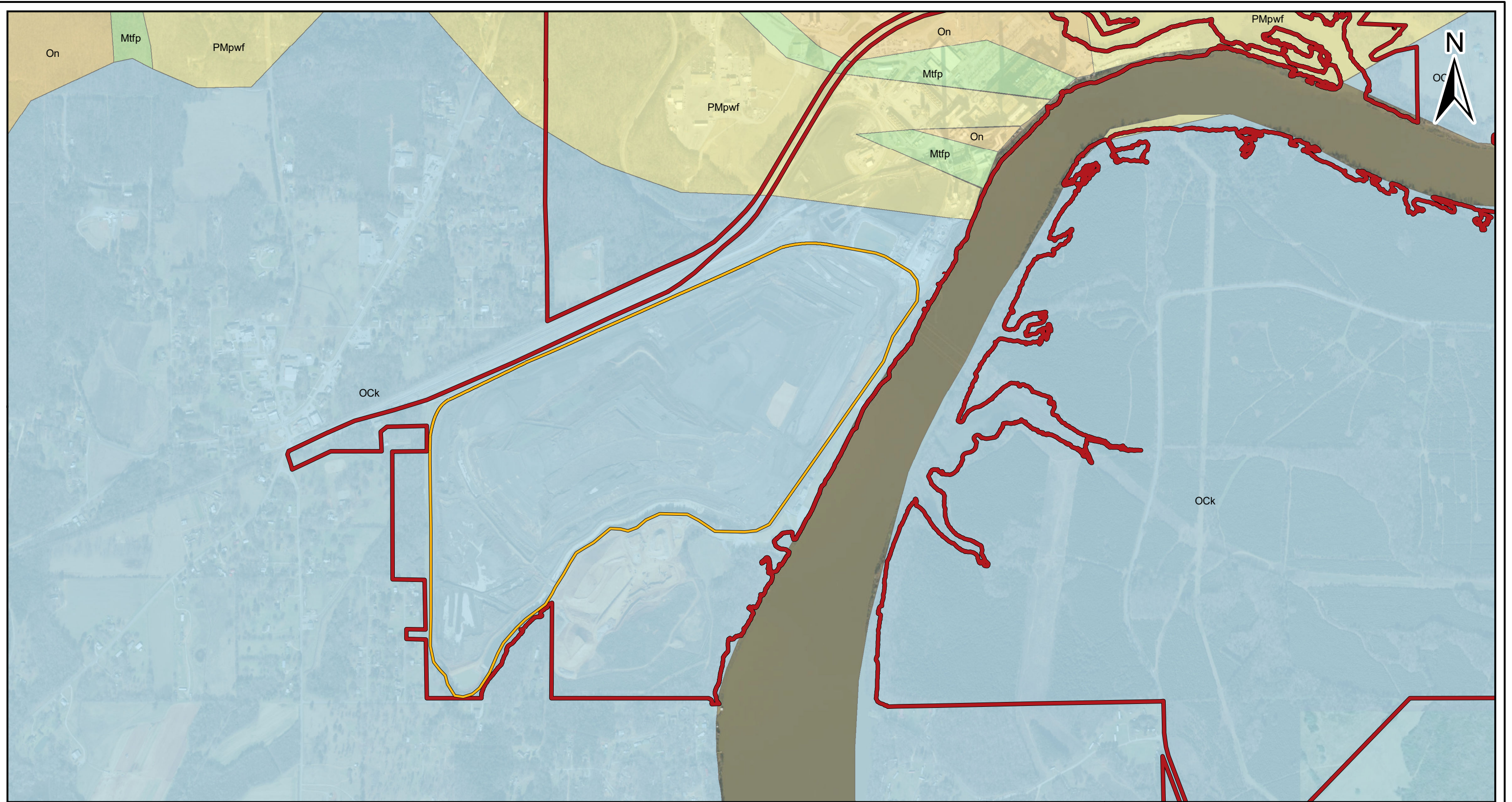
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
 Base Map: Wilsonville, Alabama 1986 U.S. Geological Survey 7.5'
 Topographic Quadrangle

SCALE	1:12,366.45
DATE	10/18/2023
DRAWN BY	KAR
CHECKED BY	AWH



DRAWING TITLE:
**SITE TOPOGRAPHIC MAP
 PLANT GASTON ASH POND**

FIGURE NO.
FIGURE 2









LEGEND

-  Ash Pond Boundary
-  Property Boundary (Approximate)

Geologic Units

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



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet
 Base Map: Maxar Vivid Advanced, 10/21/2022

SCALE 1:12,000

DATE 10/18/2023

DRAWN BY KWR

CHECKED BY AWH

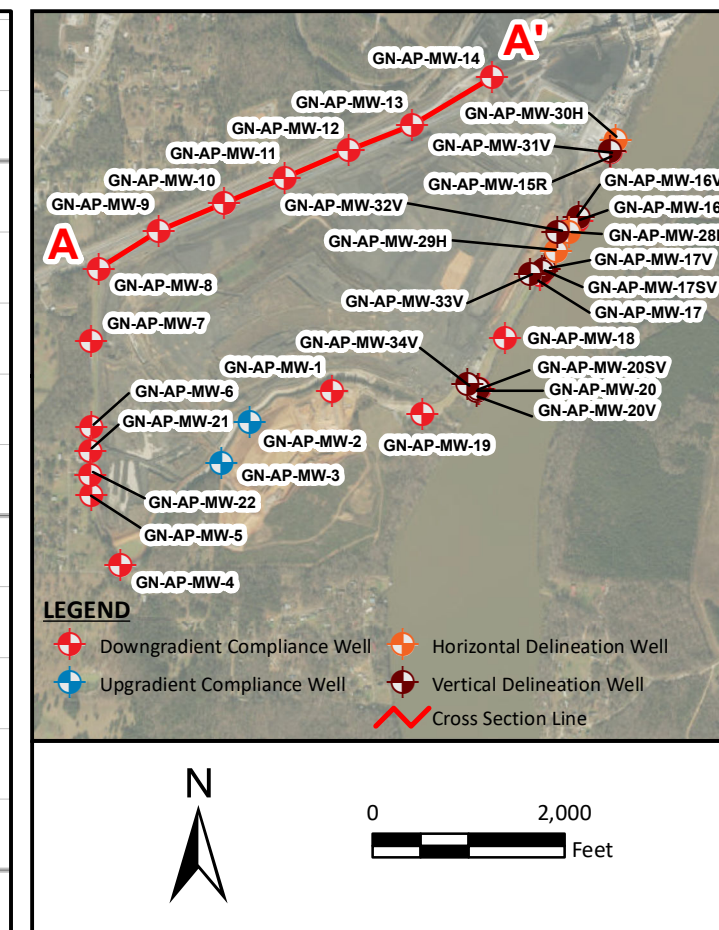
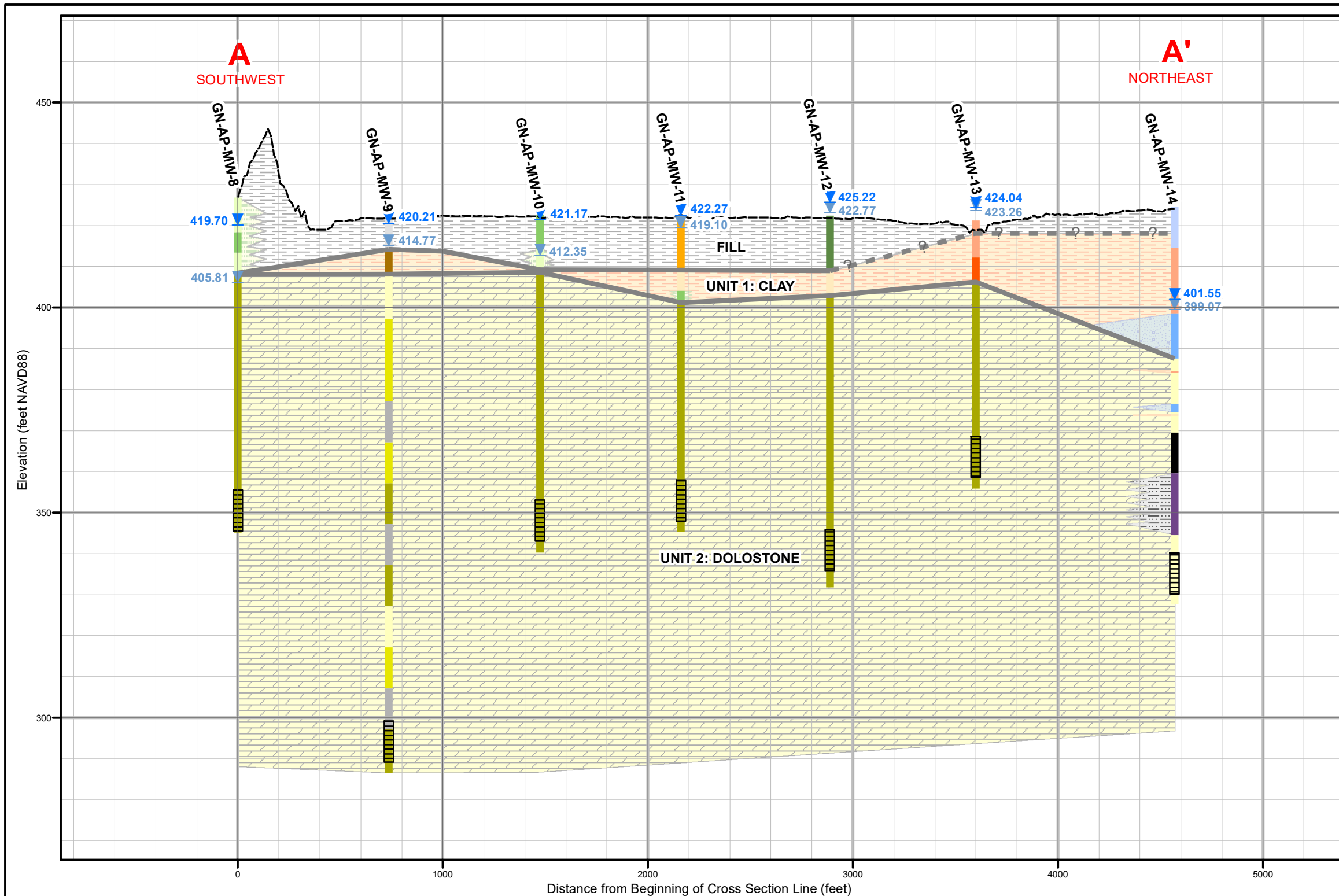
DRAWING TITLE:

**SITE GEOLOGIC MAP
 PLANT GASTON ASH POND**

FIGURE NO.

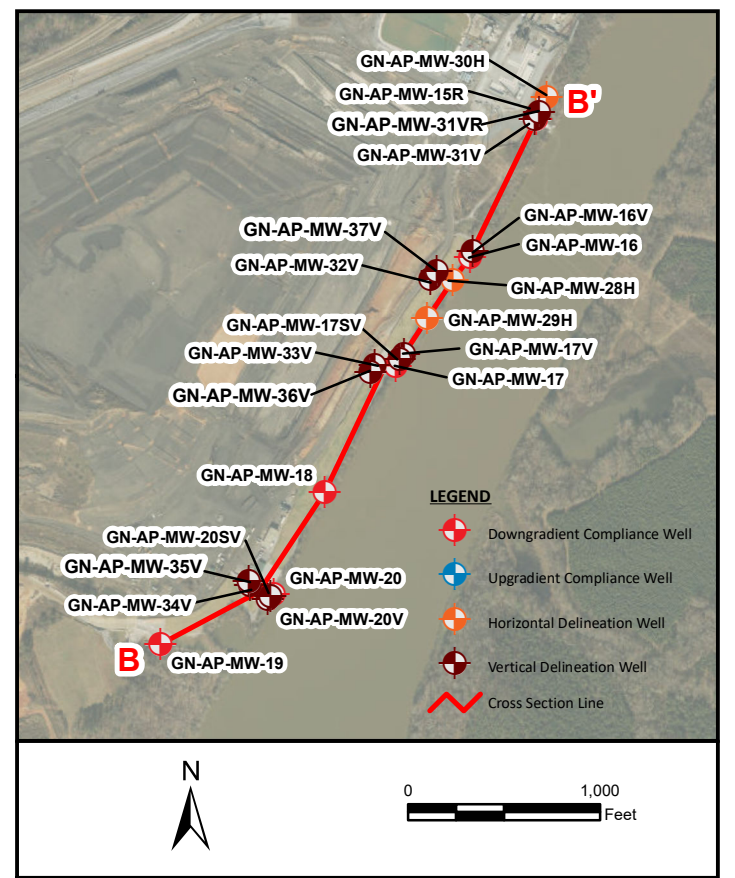
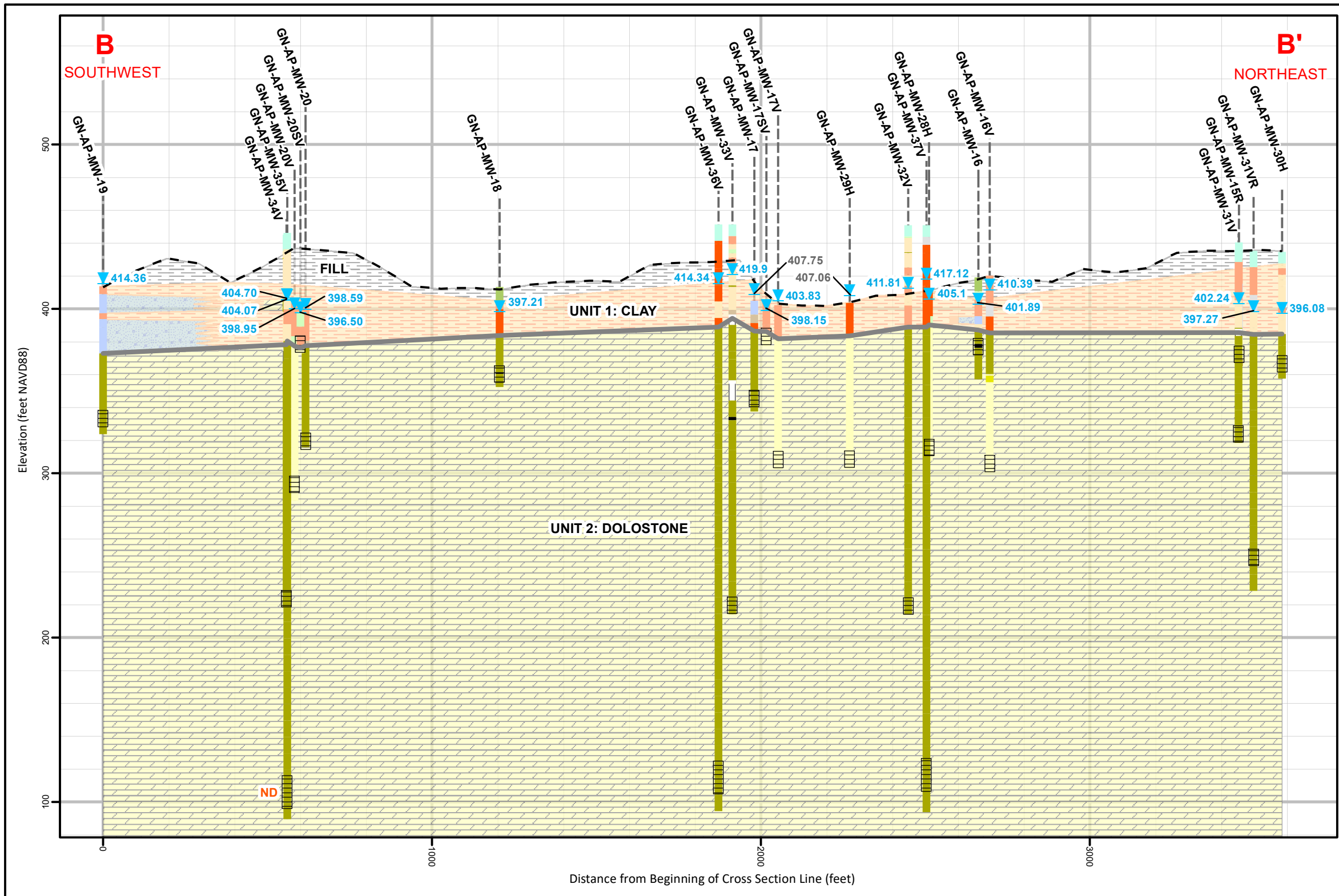
FIGURE 3





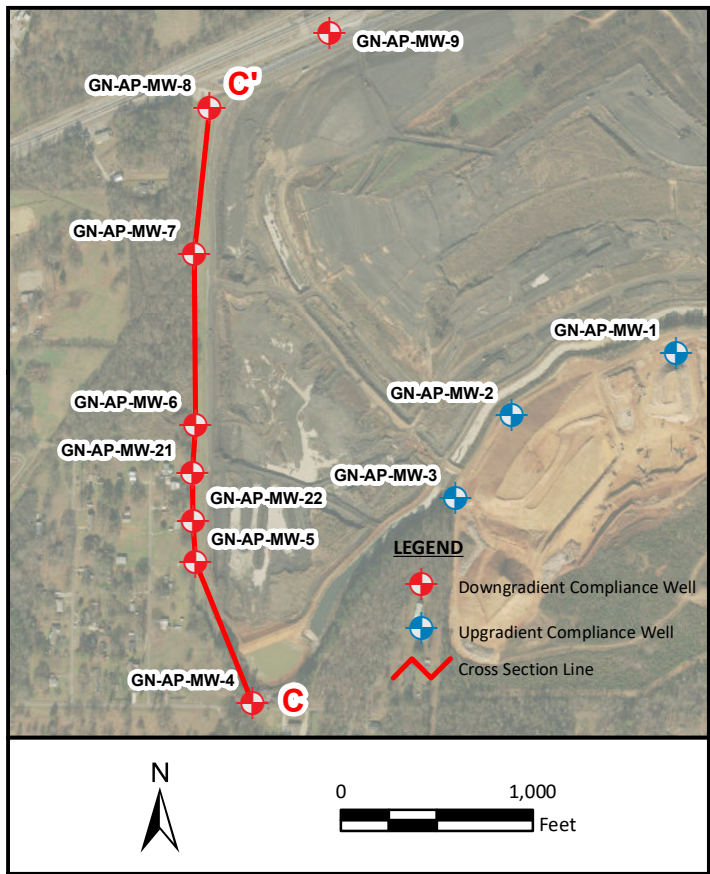
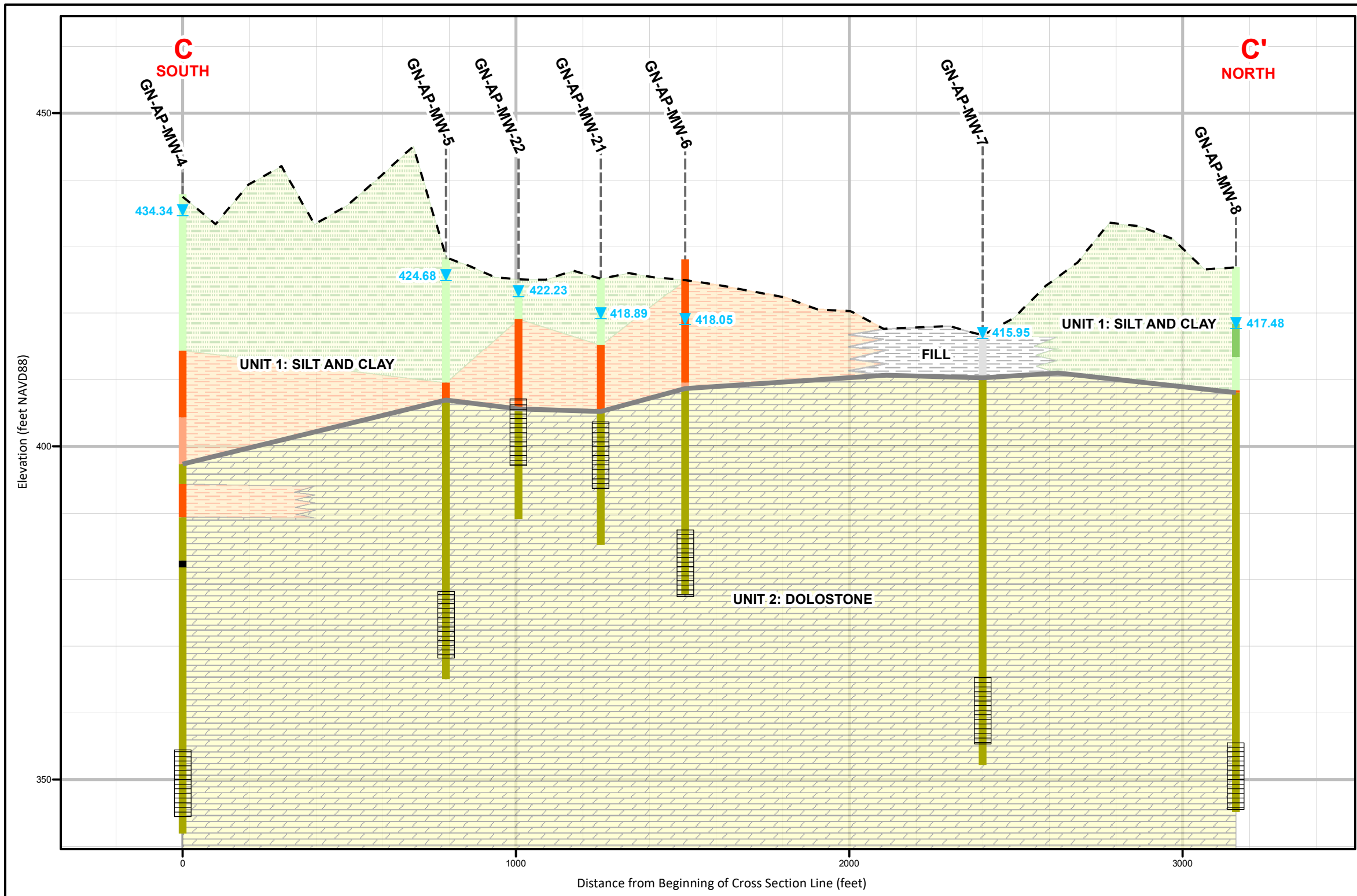
Notes: 1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Maximum and minimum groundwater elevation data were derived from the highest and lowest groundwater elevation values measured during events spanning March 28, 2018 to October 22, 2019.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

LEGEND 	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 Unit Boundary Inferred Unit Boundary		SCALE AS SHOWN	DRAWING TITLE GEOLOGIC CROSS SECTION A - A' PLANT GASTON ASH POND	
	DATE 6/12/2023		DRAWN BY KAR		FIGURE NO FIGURE 4A		
	CHECKED BY GBD						



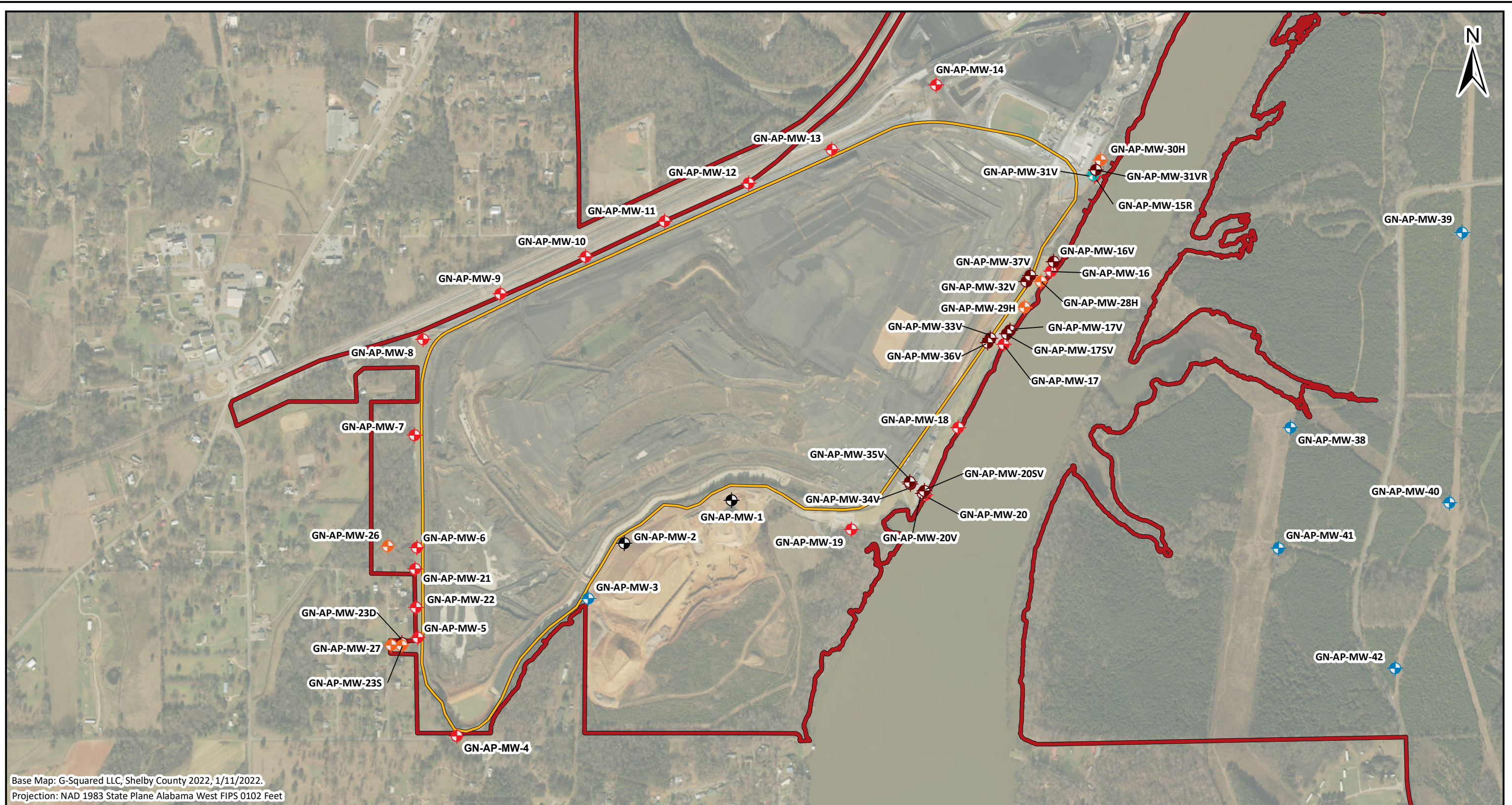
Notes: 1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on April 29, 2020.
 4. Vertical exaggeration = 5x.

LEGEND		Borehole Description		Geologic Units		SCALE	DRAWING TITLE	
414.36	Groundwater Elevation		No Recovery		Fat Clays	AS SHOWN	GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND	
407.08	Artesian Well: Top of Casing Elevation		Hydroexcavation		Clayey Gravel	DATE		
	Well Location		Fill		Sandstone	DRAWN BY	KAR	FIGURE NO
	Ground Surface Elevation		Rock Flour or Gypsum		Limestone	CHECKED BY	ACP	FIGURE 4B
	Screen Interval		Topsoil		Silt	Southern Company		
			Clayey Sand		Partially Weathered Rock			
			Dolostone		Dolostone			
			Discontinuity		Discontinuity			
			Unit Boundary		Unit Boundary			



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 Well Location Ground Surface Elevation Screen Interval	Borehole Description Topsoil Lean Clay Silty Clay Silt Sandy Silt Dolostone Discontinuity	Geologic Units Fill Clays Silts Dolostone Discontinuity Unit Boundary	SCALE AS SHOWN	DRAWING TITLE GEOLOGIC CROSS SECTION C - C' PLANT GASTON ASH POND	
			DATE 5/18/2023	FIGURE NO FIGURE 4C	
			DRAWN BY KAR	Southern Company	
			CHECKED BY ACP		



Base Map: G-Squared LLC, Shelby County 2022, 1/11/2022.
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

LEGEND

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



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	1:9,000
DATE	11/03/2023
DRAWN BY	KAR
CHECKED BY	ACP

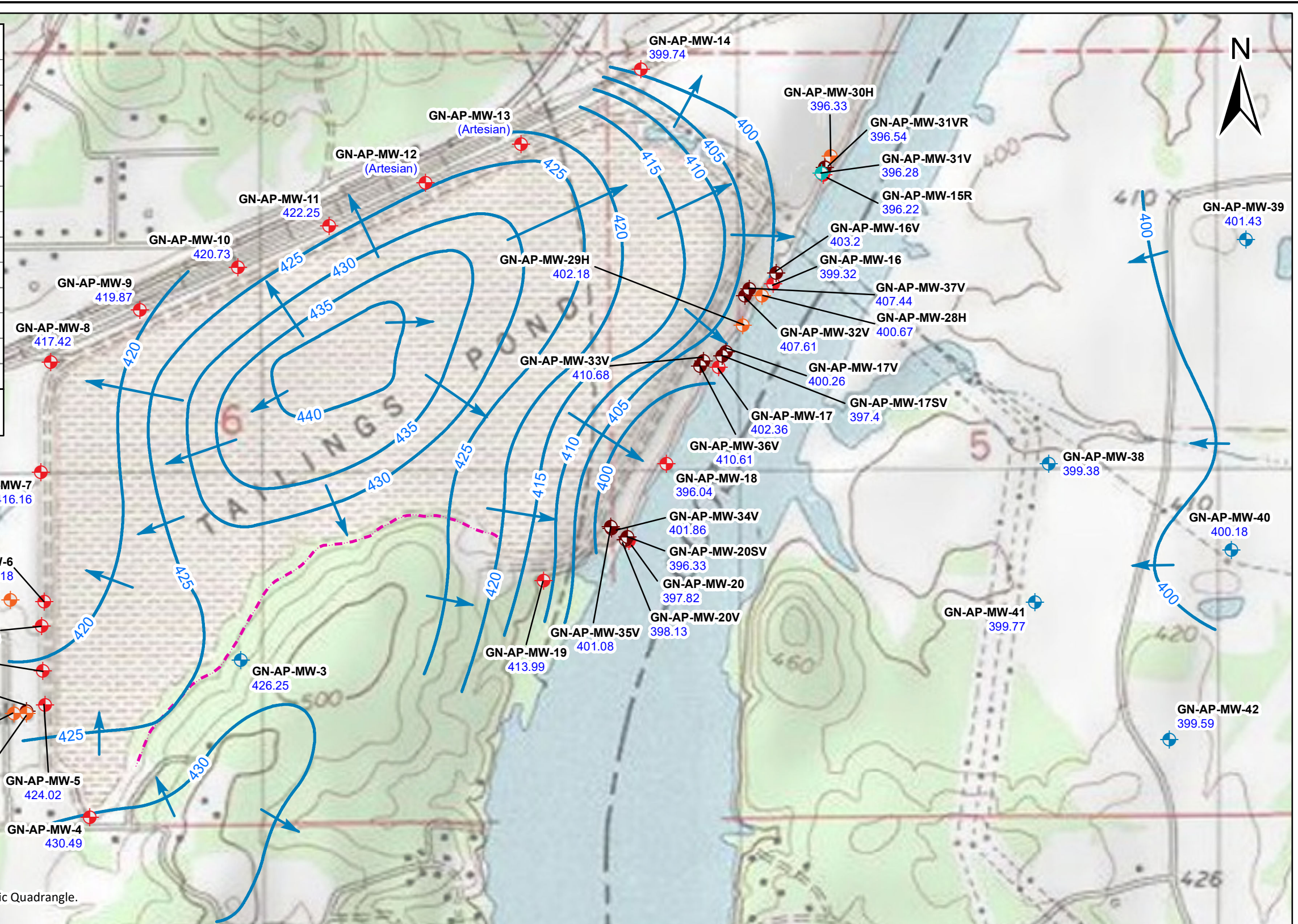
DRAWING TITLE:
**MONITORING WELL LOCATION MAP
 PLANT GASTON ASH POND**

FIGURE NO.
FIGURE 5



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

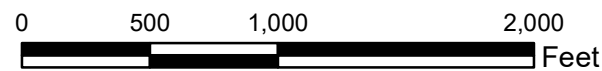
Wells in this table monitor different elevations within the Knox and display vertical gradients consistent with semi-confining conditions within the Knox. Vertical gradients from lower elevations/zones are upward along the south dike - river area.



Base Map: Wilsonville, Alabama 1986 U.S. Geological Survey 7.5' Topographic Quadrangle.
Data Frame Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

LEGEND

- Downgradient Compliance Well
- Upgradient Compliance 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
- 426.25 Groundwater Elevation



NOTES:

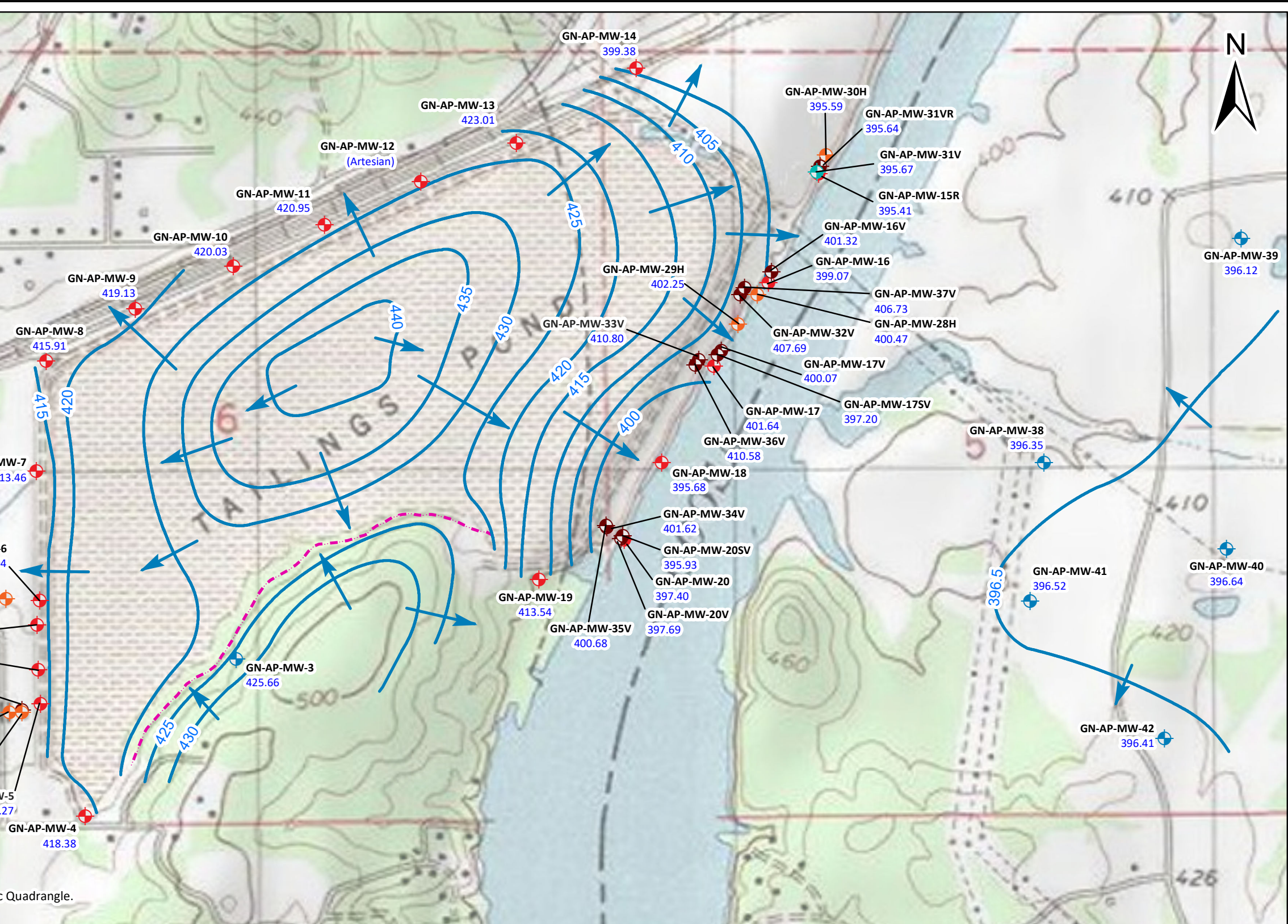
- NAVD88 indicates North American Vertical Datum of 1988.
- Average daily gage height at USGS Coosa River station at Plant Gaston was 396.10 ft NAVD88 on January 23, 2023.
- Vertical delineation wells not used in potentiometric surface contouring (see table above).

SCALE	1:9000
DATE	6/14/2023
DRAWN BY	KWR
CHECKED BY	GDB

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP	
JANUARY 23, 2023	
PLANT GASTON ASH POND	
FIGURE NO	FIGURE 6A

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.



Base Map: Wilsonville, Alabama 1986 U.S. Geological Survey 7.5' Topographic Quadrangle.
Data Frame Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

LEGEND

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

GN-AP-MW-4 Well ID
418.38 Groundwater Elevation



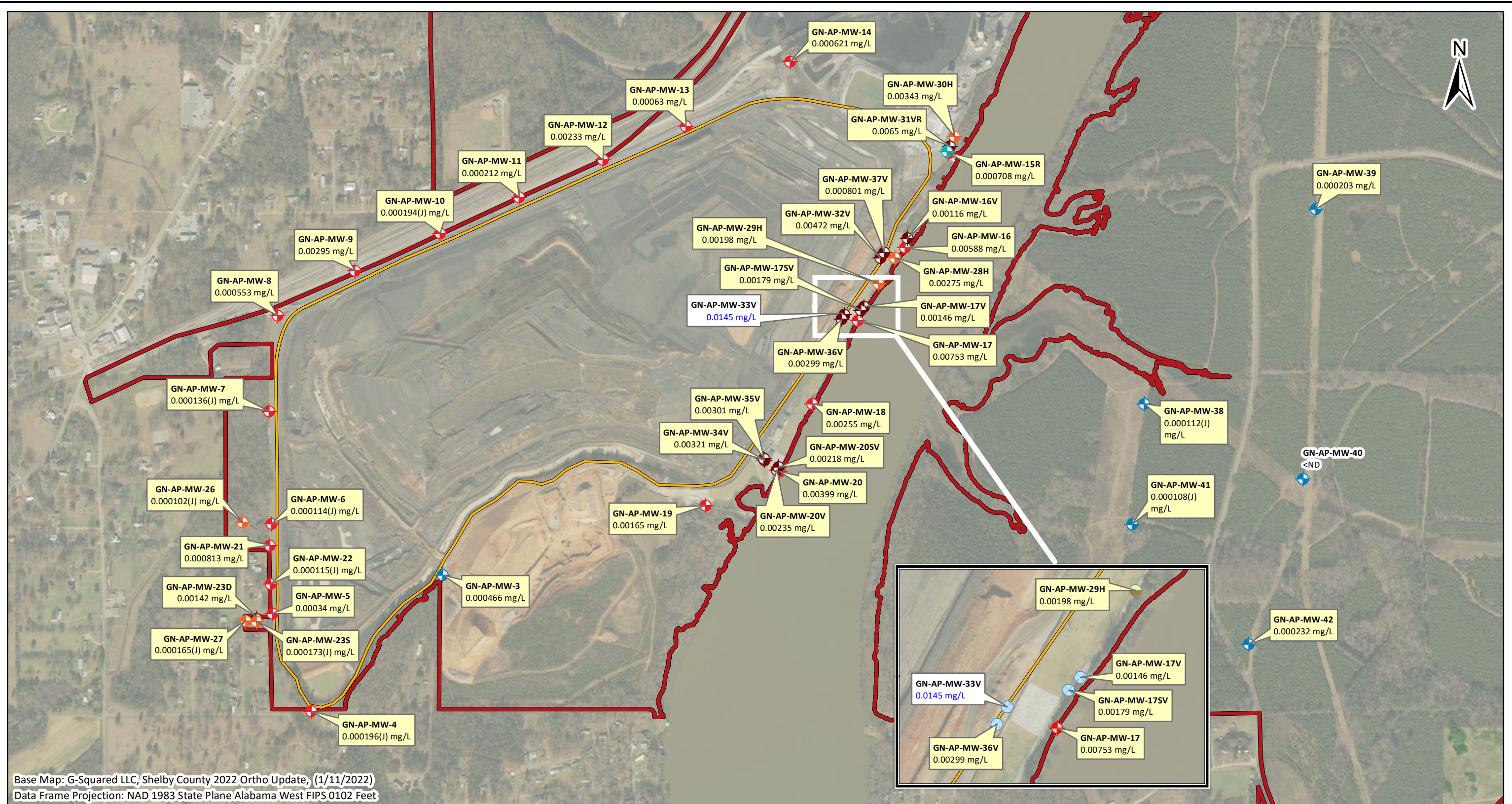
NOTES:

1. NAVD88 indicates North American Vertical Datum of 1988.
2. Average daily gage height at USGS Coosa River station at Plant Gaston was 395.89 ft NAVD88 on July 17, 2023.
3. Vertical delineation wells not used in potentiometric surface contouring (see table above).

SCALE	1:9000
DATE	10/19/2023
DRAWN BY	KAR
CHECKED BY	ACP

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
JULY 17, 2023
PLANT GASTON ASH POND

FIGURE NO
FIGURE 6B



Base Map: G-Squared LLC, Shelby County 2022 Ortho Update, (1/11/2022)
 Data Frame Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

LEGEND

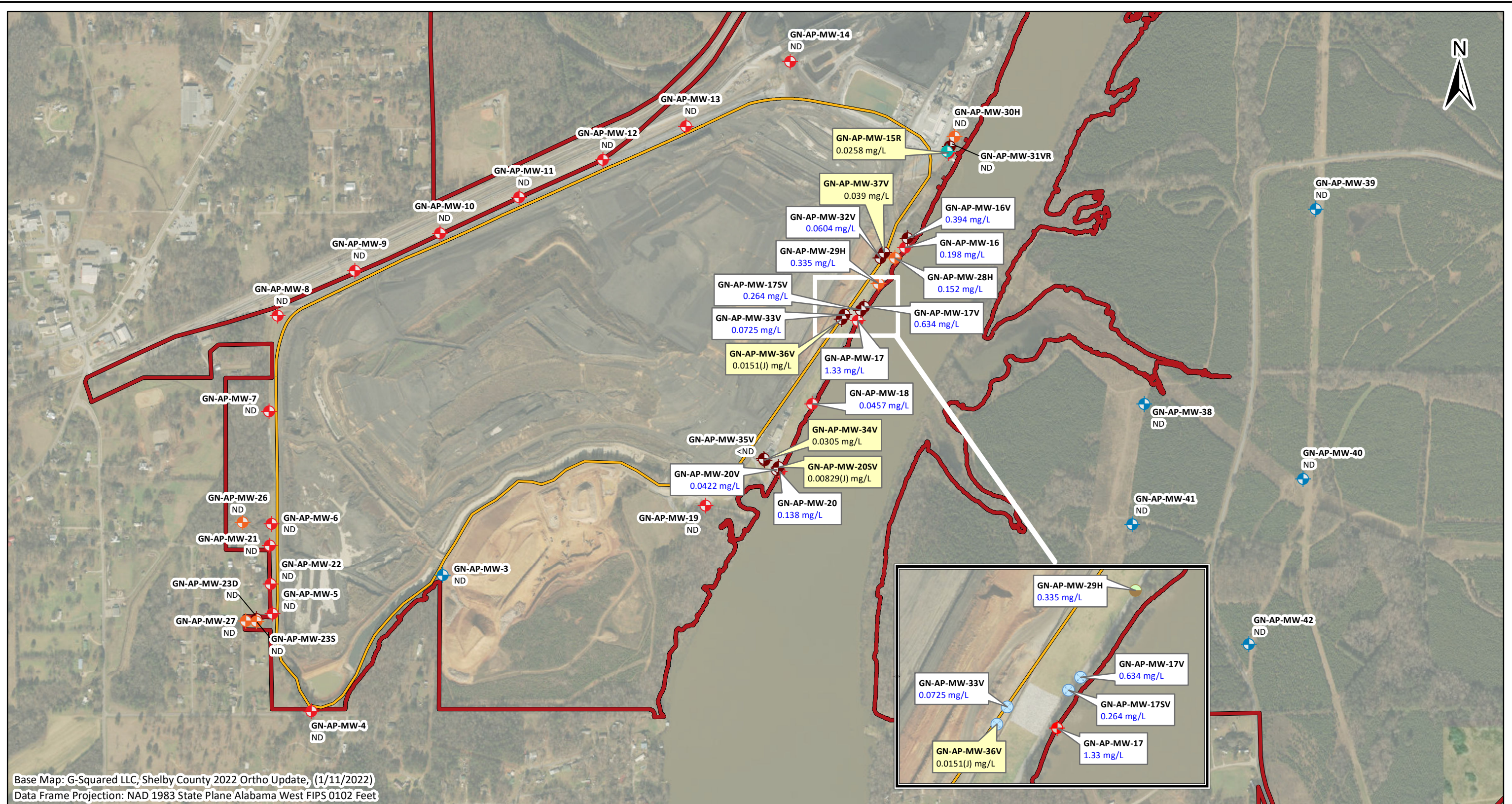
- Downgradient Compliance Well
- Upgradient Compliance Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Ash Pond Boundary
- Property Boundary (Approximate)



NOTES:

1. Wells were sampled from January 24 to February 7, 2023.
2. Bold concentrations in blue exceeded the Groundwater Protection Standard (GWPS) of 0.01 mg/L.
3. J values indicate concentrations greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
4. ND indicates a concentration value less than the laboratory Method Detection Limit (MDL) of 0.000081 mg/L.

SCALE	1:9000	DRAWING TITLE	ARSENIC CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND
DATE	4/14/2023		
DRAWN BY	KAR	FIGURE NO	FIGURE 7A
CHECKED BY	ACP		

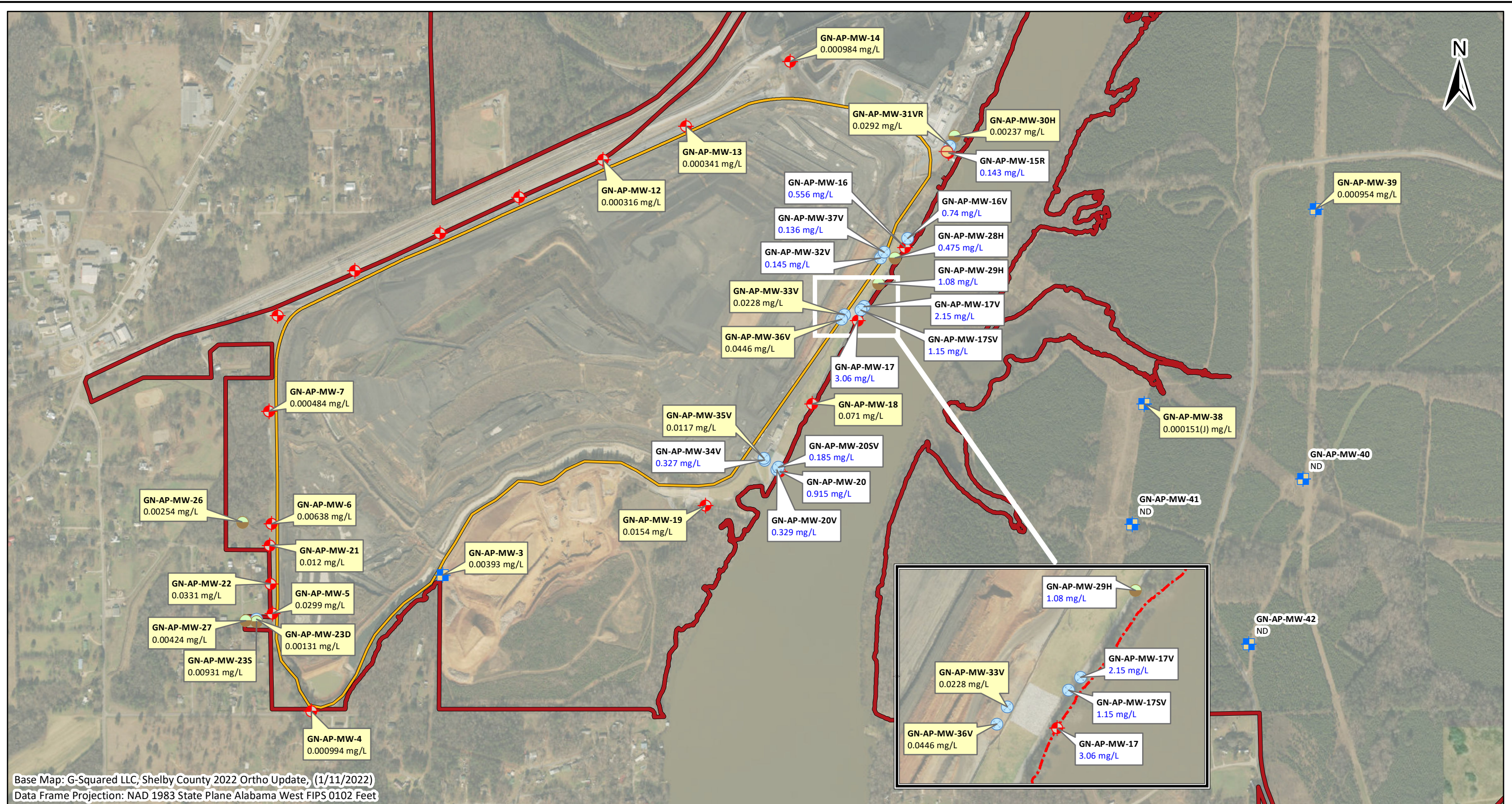


LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Ash Pond Boundary
	Property Boundary (Approximate)

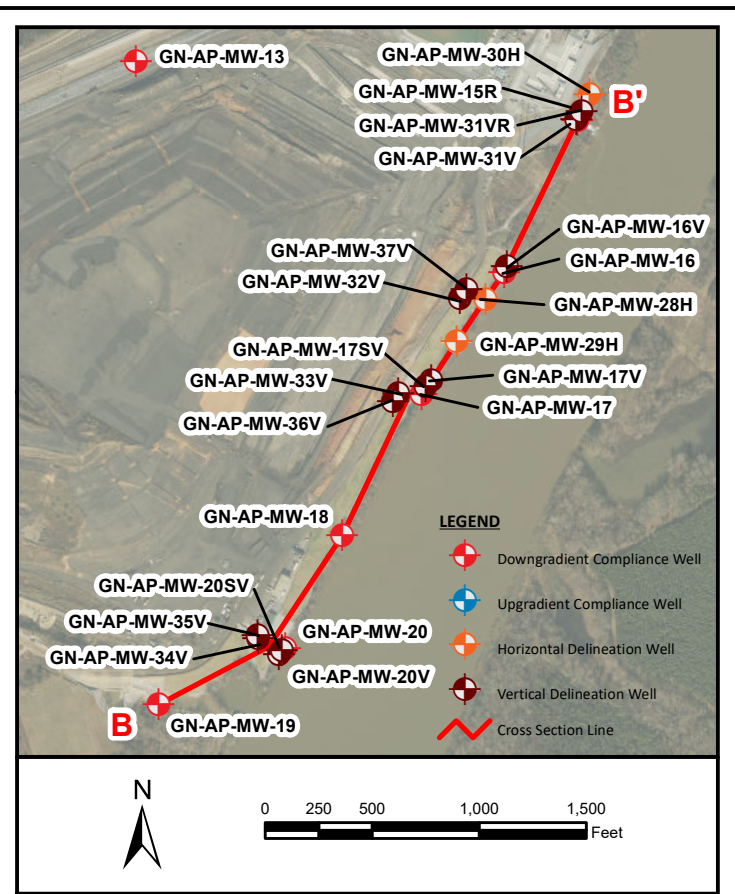
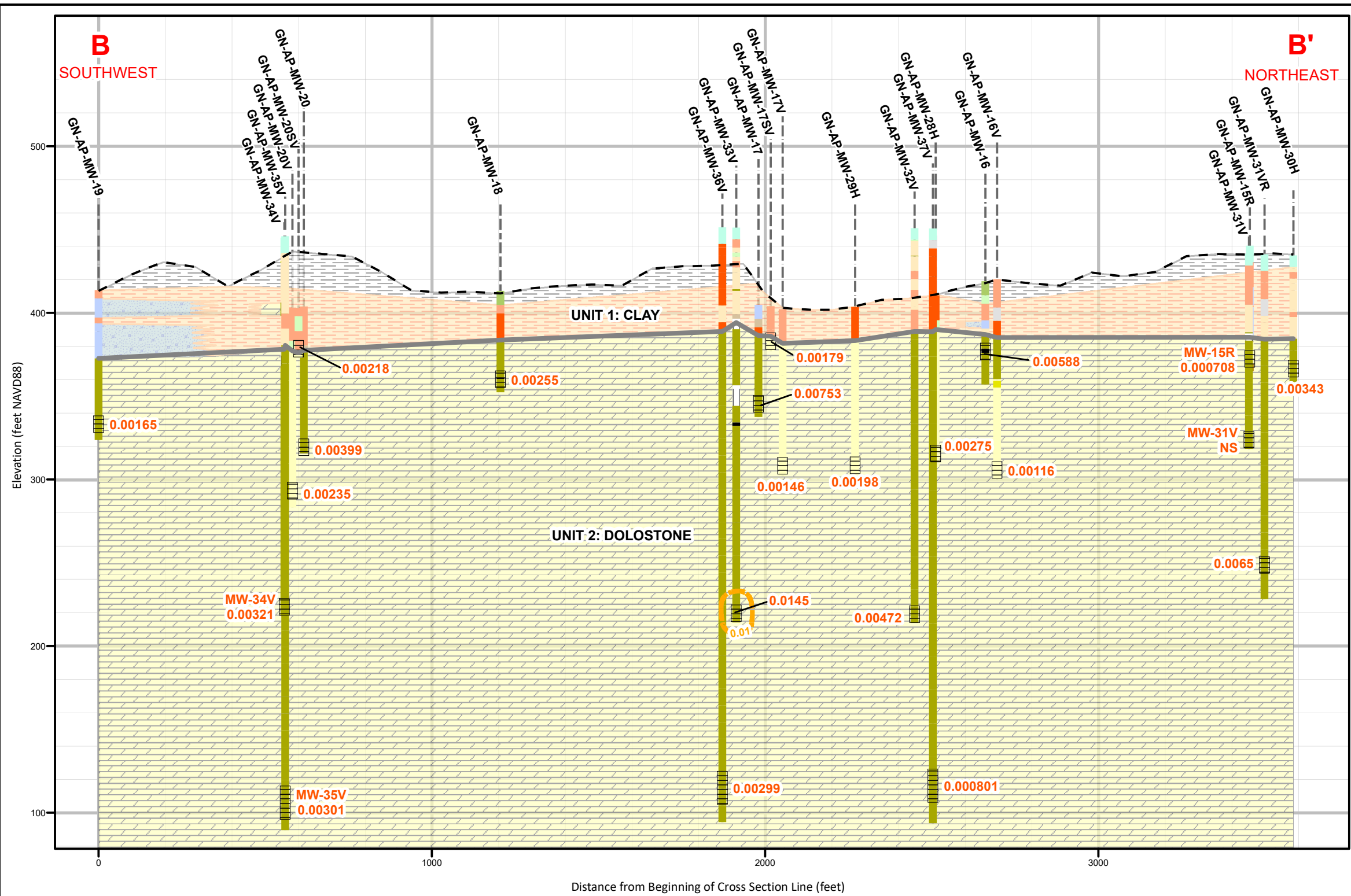


NOTES:
 1. Wells were sampled from January 24 to February 7, 2023.
 2. Bold concentrations in blue exceed the Groundwater Protection Standard (GWPS) of 0.04 mg/L.
 3. J values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).
 4. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.007105 mg/L.

SCALE	1:9000	DRAWING TITLE	LITHIUM CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND
DATE	4/14/2023		
DRAWN BY	KAR	FIGURE NO	FIGURE 7B
CHECKED BY	ACP		

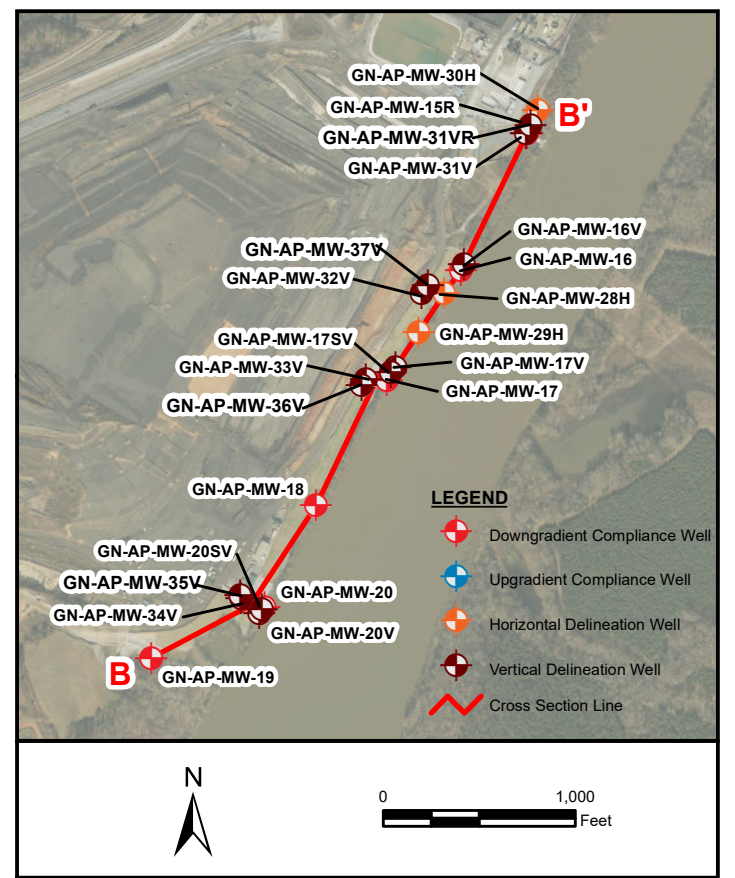
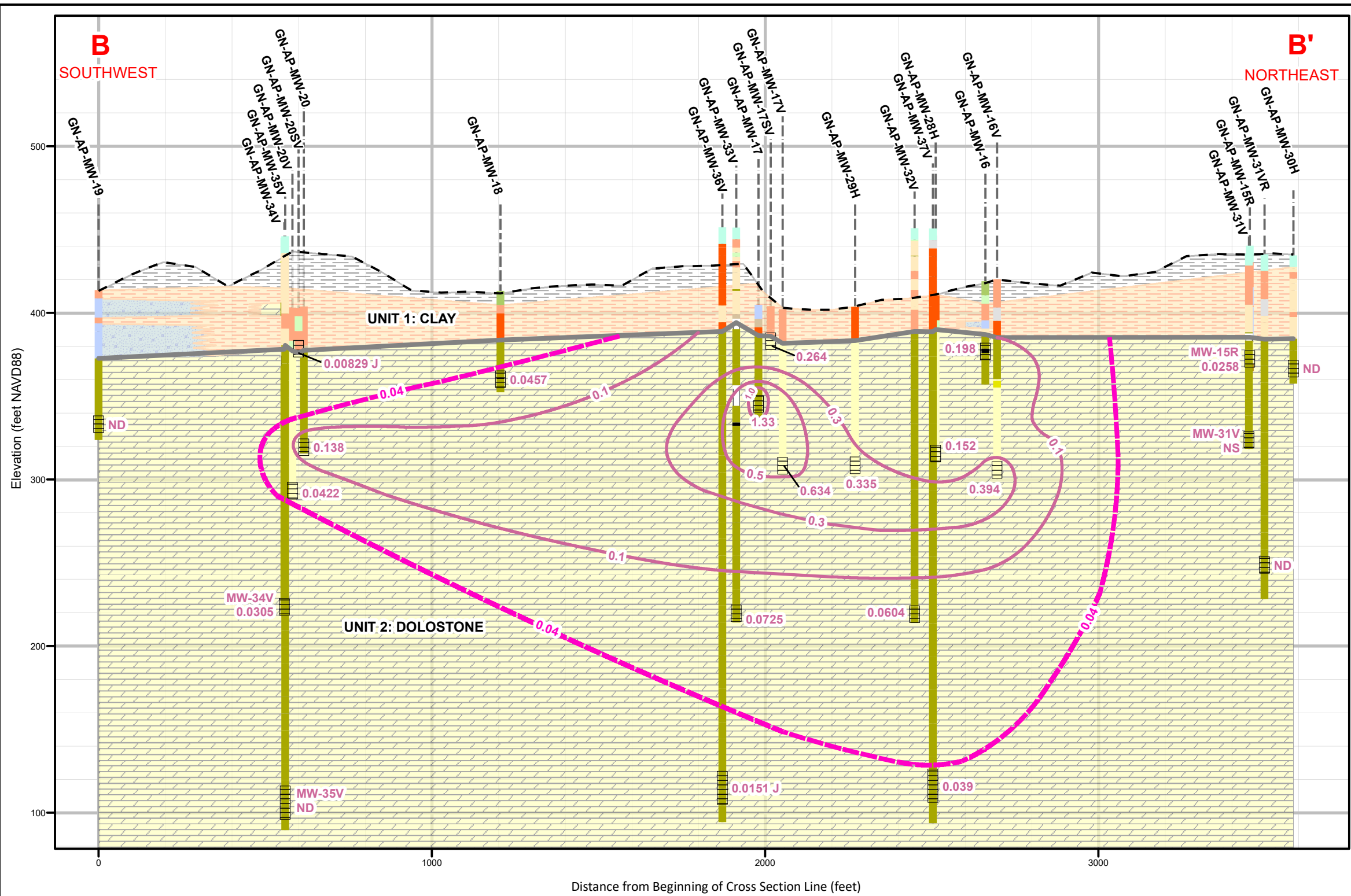


LEGEND Downgradient Monitoring Well Upgradient Monitoring Well Horizontal Delineation Well Vertical Delineation Well Piezometer Ash Pond Boundary Property Boundary (Approximate)	NOTES: 1. Wells were sampled from January 24 to February 7, 2023. 2. Bold concentrations in blue exceeded the Groundwater Protection Standard of 0.1 mg/L. 3. J values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL). 4. ND indicates concentration less than the laboratory Method Detection Limit (MDL) of 0.000102 mg/L.	SCALE 1:9000 DATE 4/14/2023 DRAWN BY KAR CHECKED BY ACP	DRAWING TITLE MOLYBDENUM CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND FIGURE NO FIGURE 7C	Southern Company
		0 750 Feet		
		(Empty space for additional notes or details)		
		(Empty space for additional notes or details)		



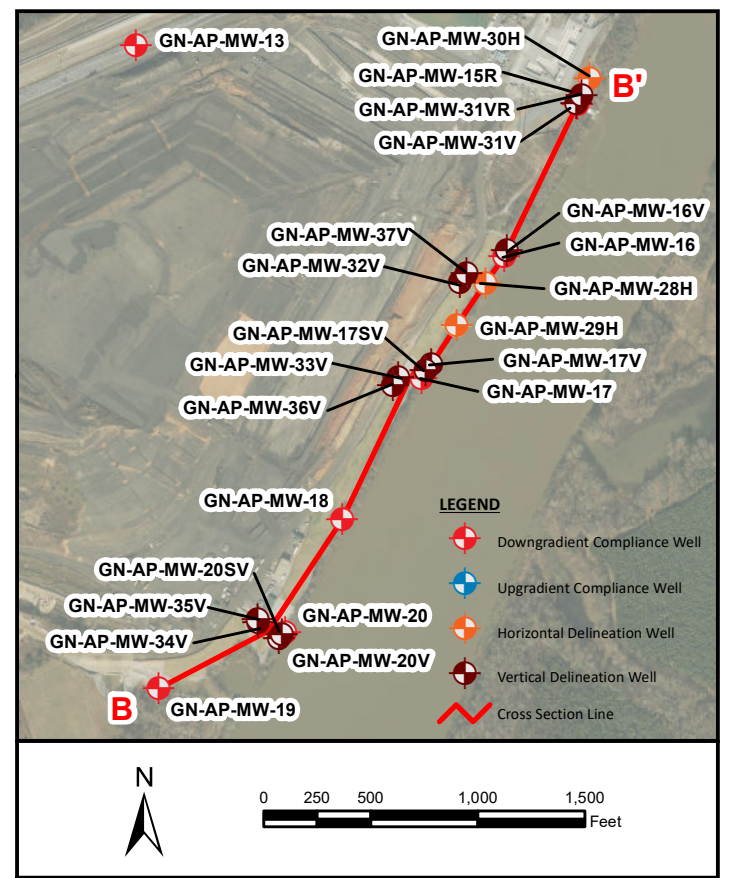
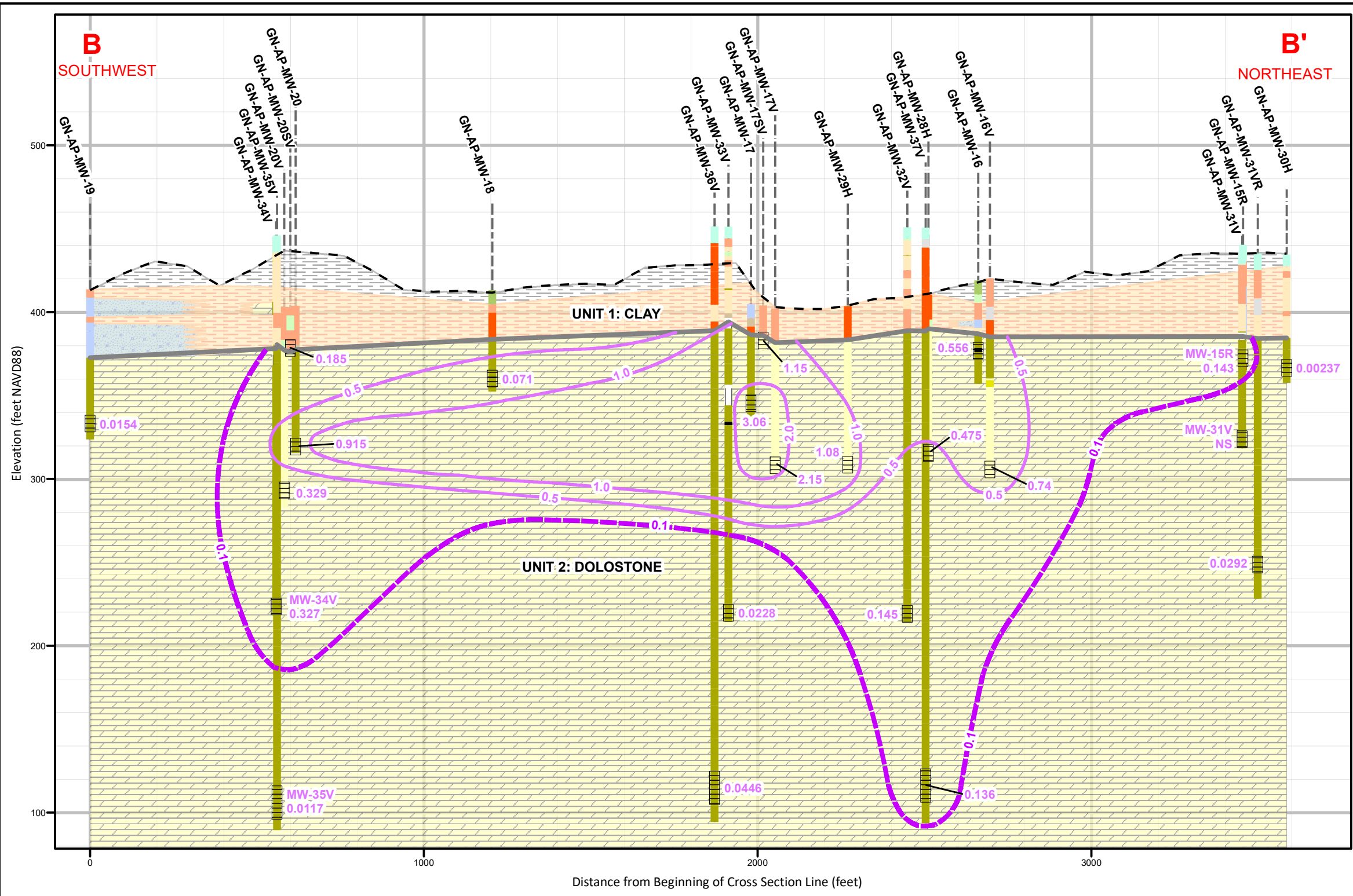
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Water samples were collected between January 24 and February 7, 2023.
 4. Concentrations are provided in milligrams per liter (mg/L).
 5. NS indicates not sampled.
 6. GWPS indicates groundwater protection standard.
 7. Vertical exaggeration = 5x.
 8. Concentrations are representative of groundwater occupying fractures.

LEGEND		Borehole Description		Geologic Units		SCALE	DRAWING TITLE	
	Ground Surface Elevation		No Recovery		Fill	AS SHOWN	ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND	
	Well Location		Hydroexcavation		Clays	DATE		
	Screen Interval		Fill		Bedrock Residuum Gravel with Clay	DRAWN BY	KAR	FIGURE NO
	Arsenic GWPS Isoconcentration Contour (mg/L)		Rock Flour or Gypsum		Dolostone	CHECKED BY	ACP	FIGURE 8A
	0.01 Arsenic GWPS (mg/L)		Topsoil		Discontinuity	Southern Company		
	0.00165 Arsenic concentration (mg/L)		Fat Clays		Unit Boundary			
			Lean Clays					
			Silty Clay					
			Clayey Sand					
			Clayey Gravel					
			Sandstone					
			Limestone					
			Partially Weathered Rock					
			Dolostone					
			Discontinuity					



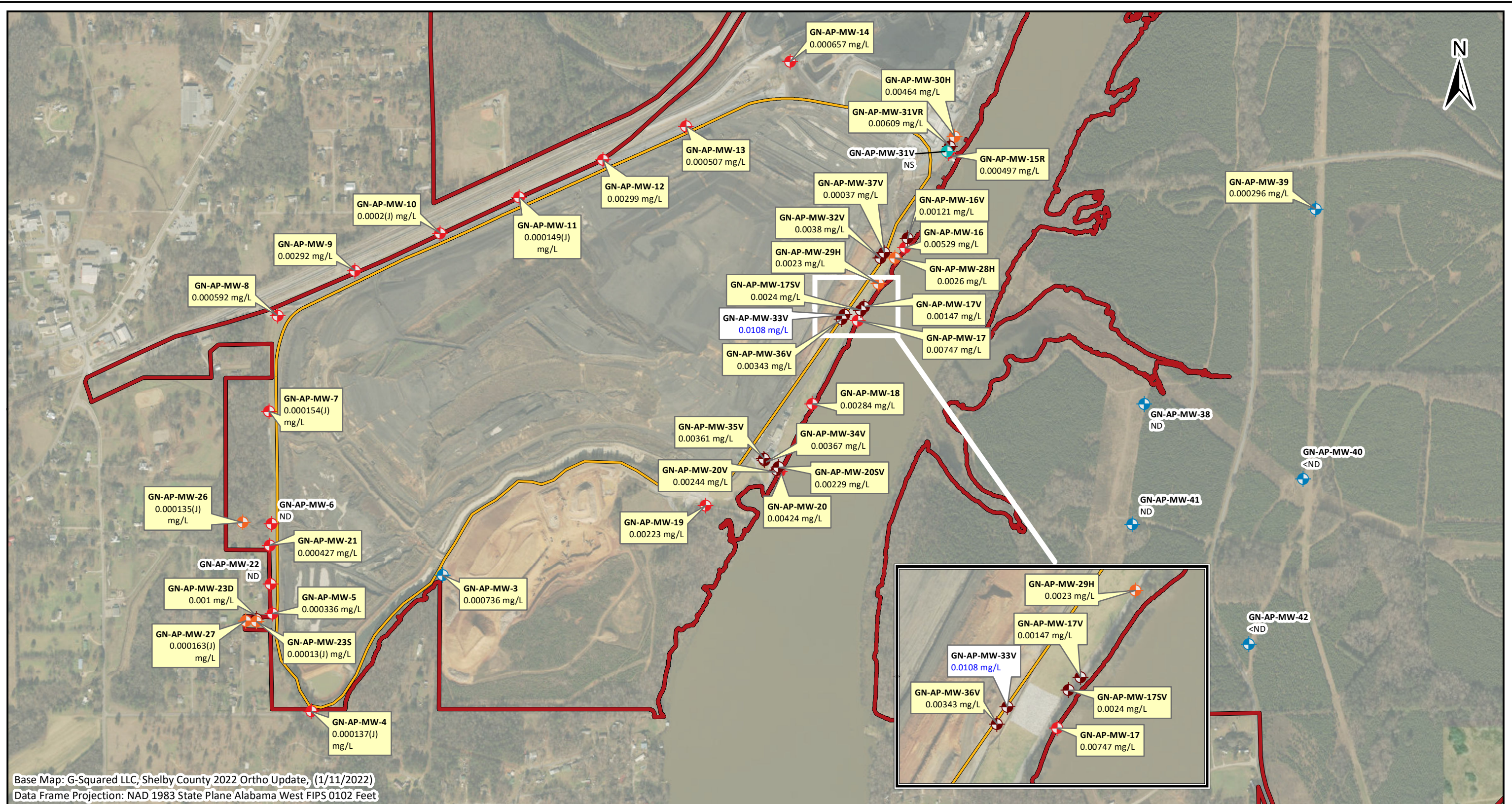
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Water samples were collected between January 24 and February 7, 2023.
 4. mg/L indicates milligrams per liter.
 5. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 6. ND indicates not detected above the laboratory method detection limit.
 7. NS indicates not sampled.
 8. GWPS indicates groundwater protection standard.
 9. Vertical exaggeration = 5x.
 10. Concentrations are representative of groundwater occupying fractures.

LEGEND 	SCALE AS SHOWN		DRAWING TITLE LITHIUM CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND	
	DATE 5/18/2023		FIGURE NO FIGURE 8B	
	DRAWN BY KAR			
	CHECKED BY ACP			

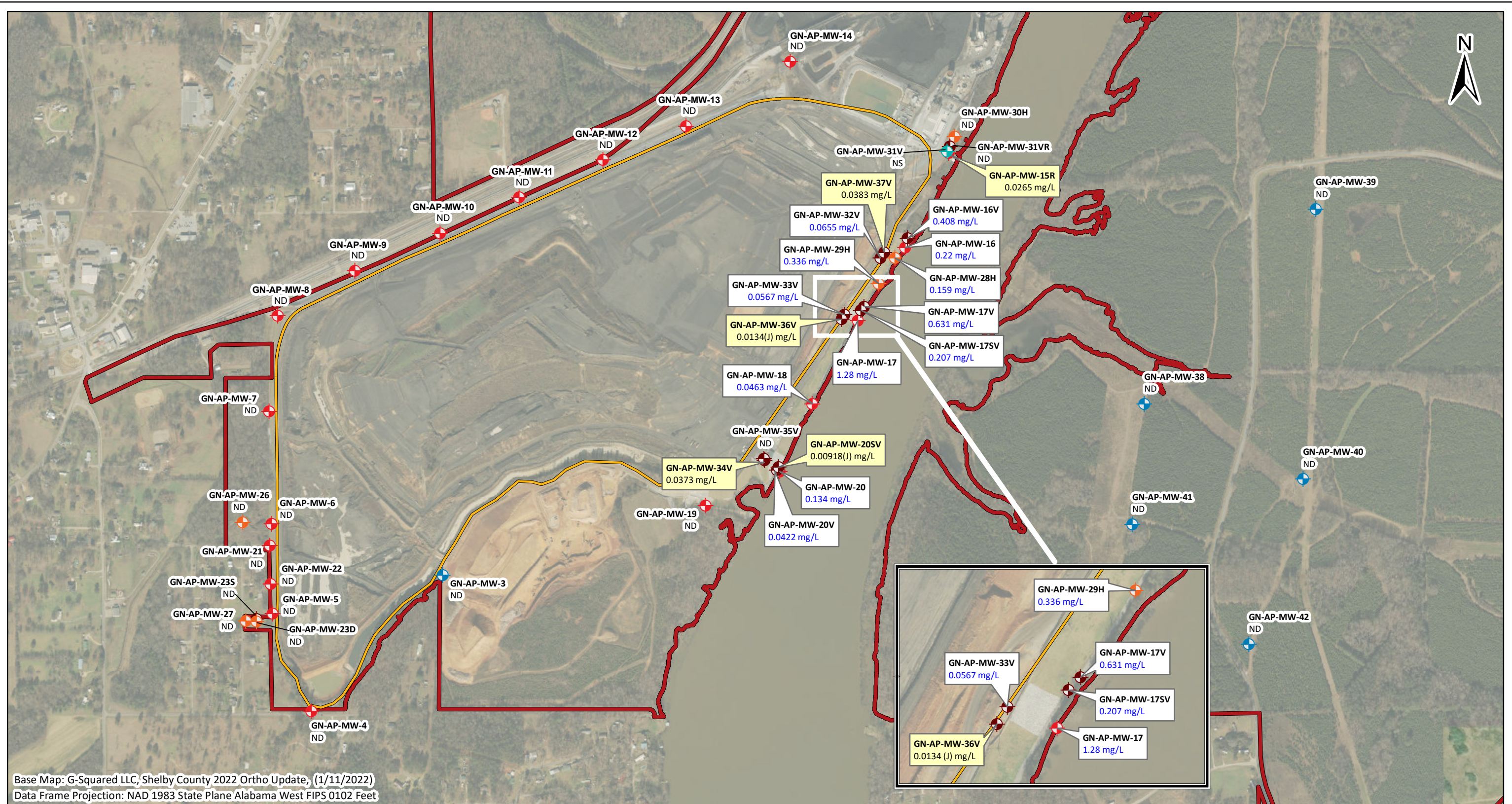


- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Water samples were collected between January 24 and February 7, 2023.
 4. mg/L indicates milligrams per liter.
 5. NS indicates not sampled.
 6. GWPS indicates groundwater protection standard.
 7. Vertical exaggeration = 5x.
 8. Concentrations are representative of groundwater occupying fractures.

LEGEND Ground Surface Elevation Well Location Screen Interval Molybdenum Isoconcentration Contour (mg/L) Molybdenum GWPS Isoconcentration Contour (mg/L) 0.1 Molybdenum GWPS (mg/L) 0.329 Molybdenum concentration (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	DRAWING TITLE MOLYBDENUM CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND	
			DATE 5/18/2023	FIGURE NO FIGURE 8C	
			DRAWN BY KAR		
			CHECKED BY ACP		



LEGEND Downgradient Compliance Well Upgradient Compliance Well Horizontal Delineation Well Vertical Delineation Well Piezometer Ash Pond Boundary Property Boundary (Approximate)	NOTES: 1. Wells were sampled from July 18 to August 6, 2023. 2. Bold concentrations in blue exceed the Groundwater Protection Standard (GWPS) of 0.01 mg/L. 3. J values indicate concentrations greater than or equal to the laboratory MDL and less than the Reporting Limit (RL). 4. ND indicates a concentration value less than the laboratory Method Detection Limit (MDL) of 0.000081 mg/L. 5. NS indicates not sampled.	SCALE 1:9000 DATE 10/19/2023	DRAWING TITLE ARSENIC CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND		
		DRAWN BY KAR CHECKED BY ACP		FIGURE NO FIGURE 9A	
				Southern Company	



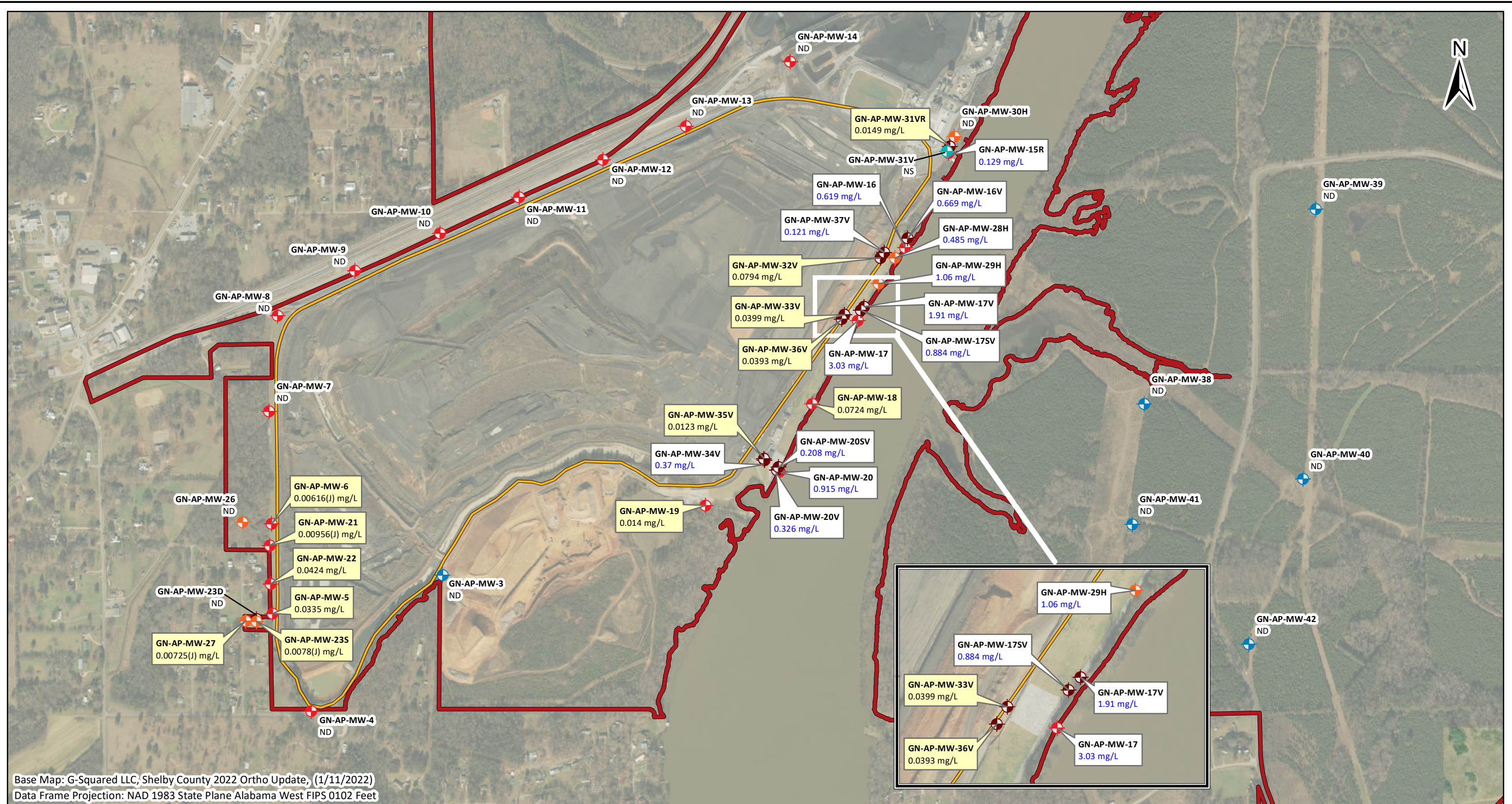
Base Map: G-Squared LLC, Shelby County 2022 Ortho Update, (1/11/2022)
 Data Frame Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Vertical Delineation Well
	Piezometer
	Ash Pond Boundary
	Property Boundary (Approximate)



- NOTES:
1. Wells were sampled from July 18 to August 1, 2023.
 2. Bold concentrations in blue exceed the Groundwater Protection Standard (GWPS) of 0.04 mg/L.
 3. J values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).
 4. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.007105 mg/L.
 5. NS indicates not sampled.

SCALE	1:9000	DRAWING TITLE	LITHIUM CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND
DATE	10/19/2023		
DRAWN BY	KAR	FIGURE NO	FIGURE 9B
CHECKED BY	ACP		



Base Map: G-Squared LLC, Shelby County 2022 Ortho Update, (1/11/2022)
 Data Frame Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet

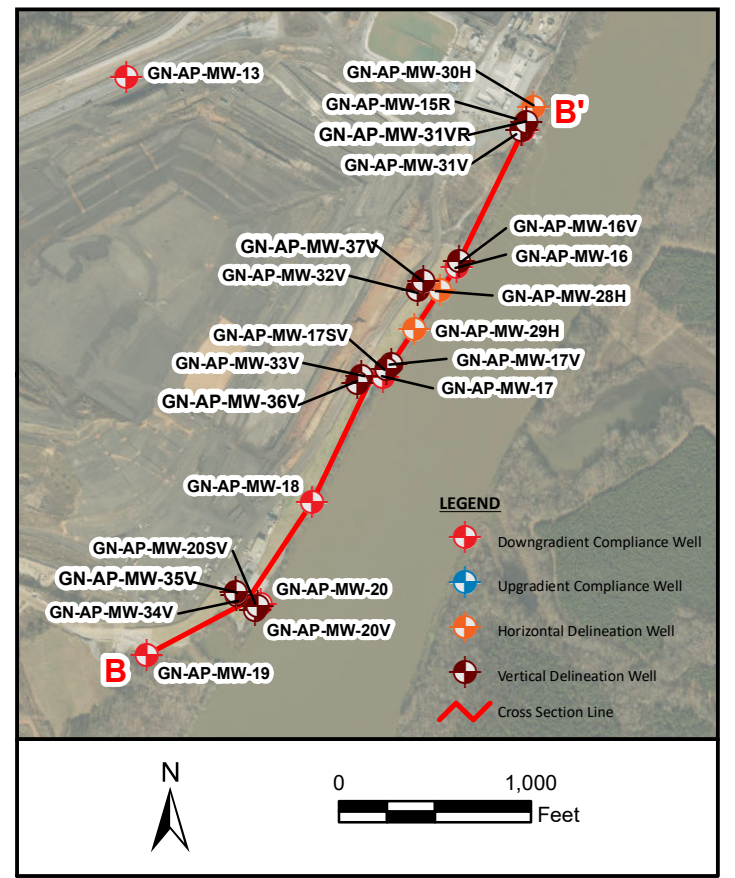
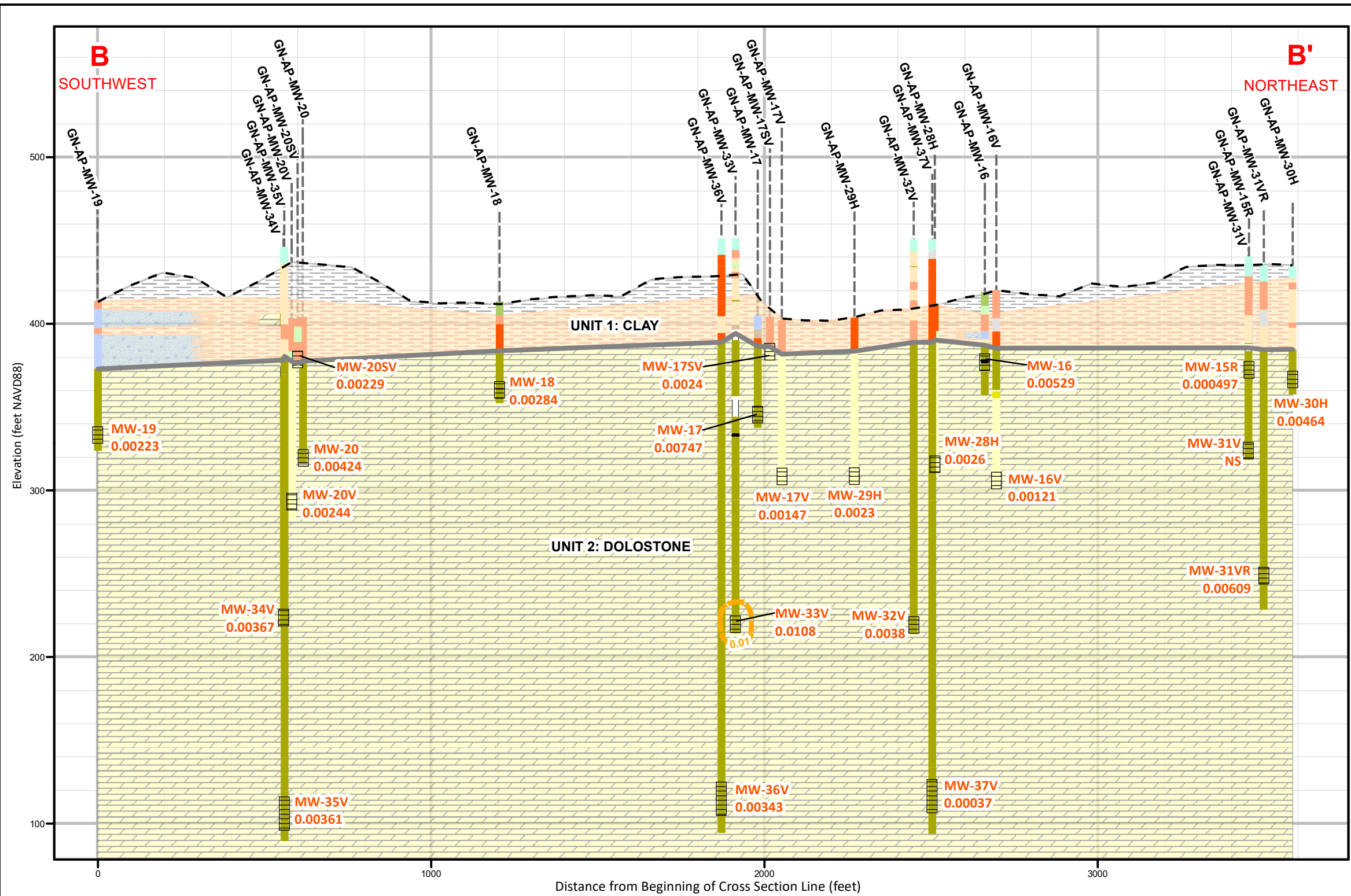
LEGEND

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



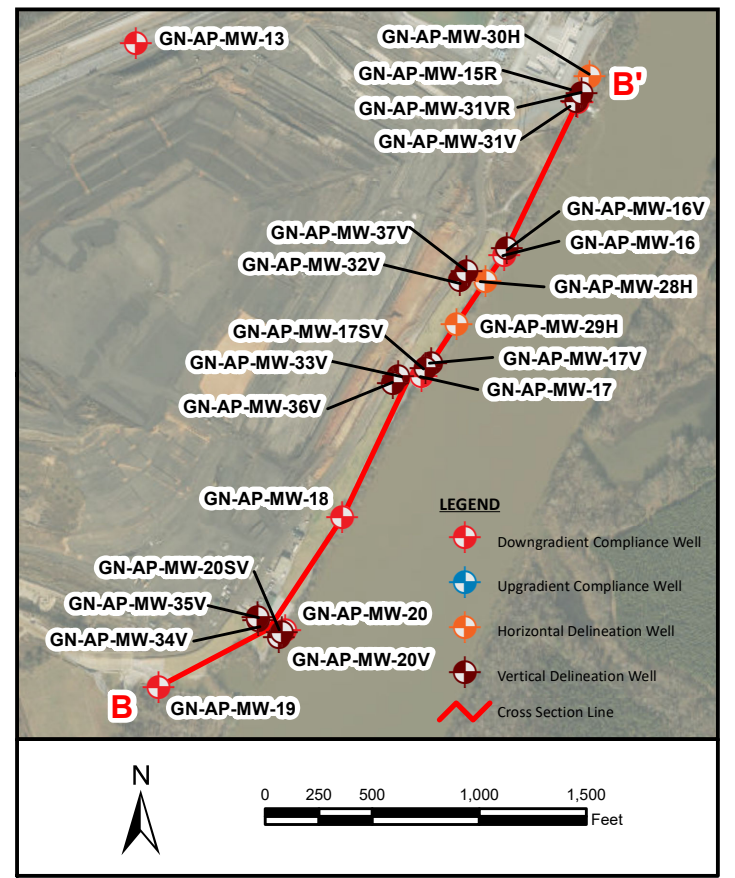
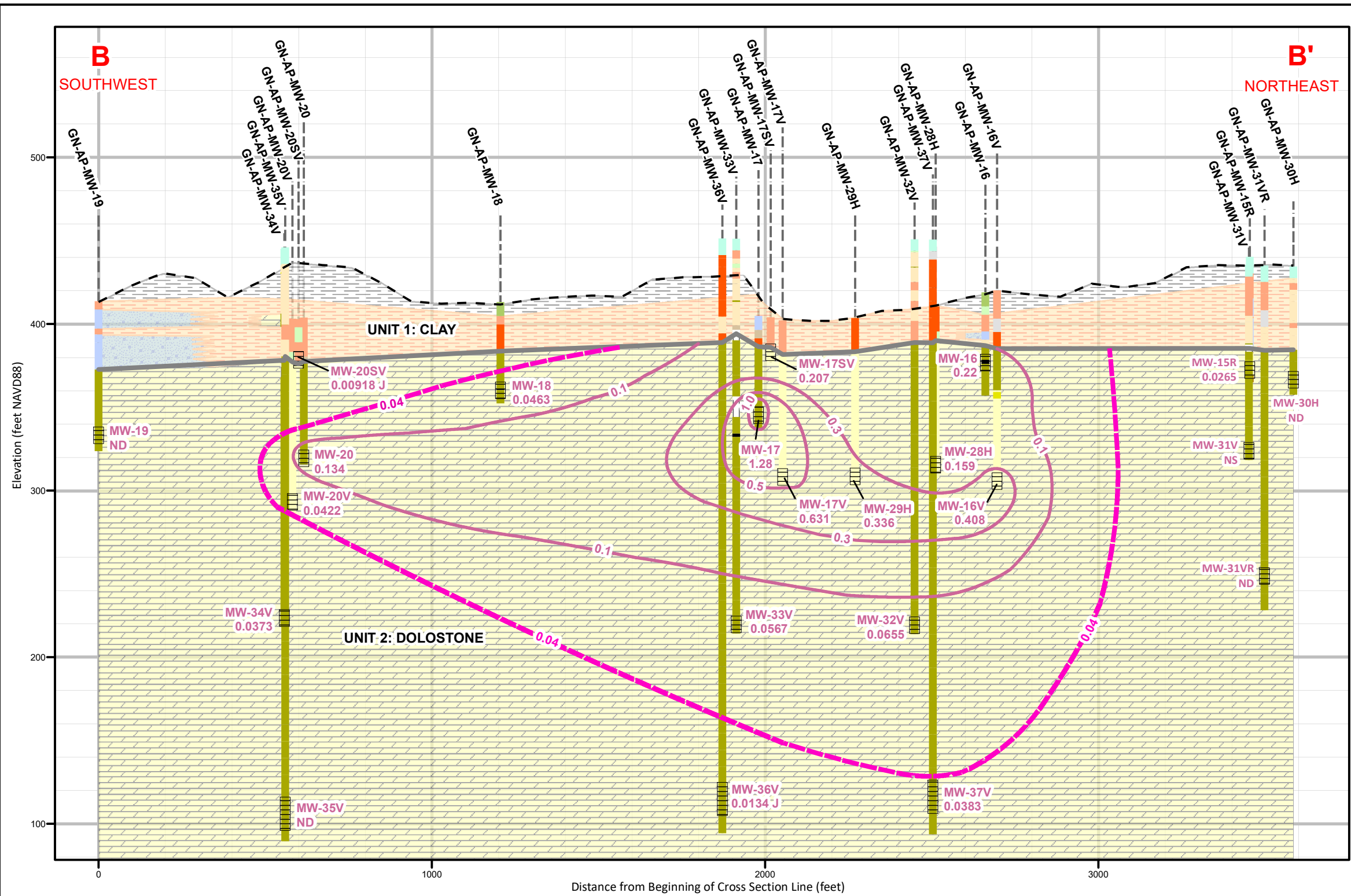
- NOTES:**
1. Wells were sampled from July 18 to August 1, 2023.
 2. Bold concentrations in blue exceeded the Groundwater Protection Standard of 0.1 mg/L.
 3. J values indicate laboratory-estimated concentrations greater than or equal to the MDL and less than the Reporting Limit (RL).
 4. ND indicates concentration less than the laboratory Method Detection Limit (MDL) of 0.000102 mg/L.
 5. NS indicates not sampled.

SCALE	1:9000	DRAWING TITLE	MOLYBDENUM CONCENTRATION CALL-OUT MAP PLANT GASTON ASH POND
DATE	10/19/2023		
DRAWN BY	KAR	FIGURE NO	FIGURE 9C
CHECKED BY	ACP		



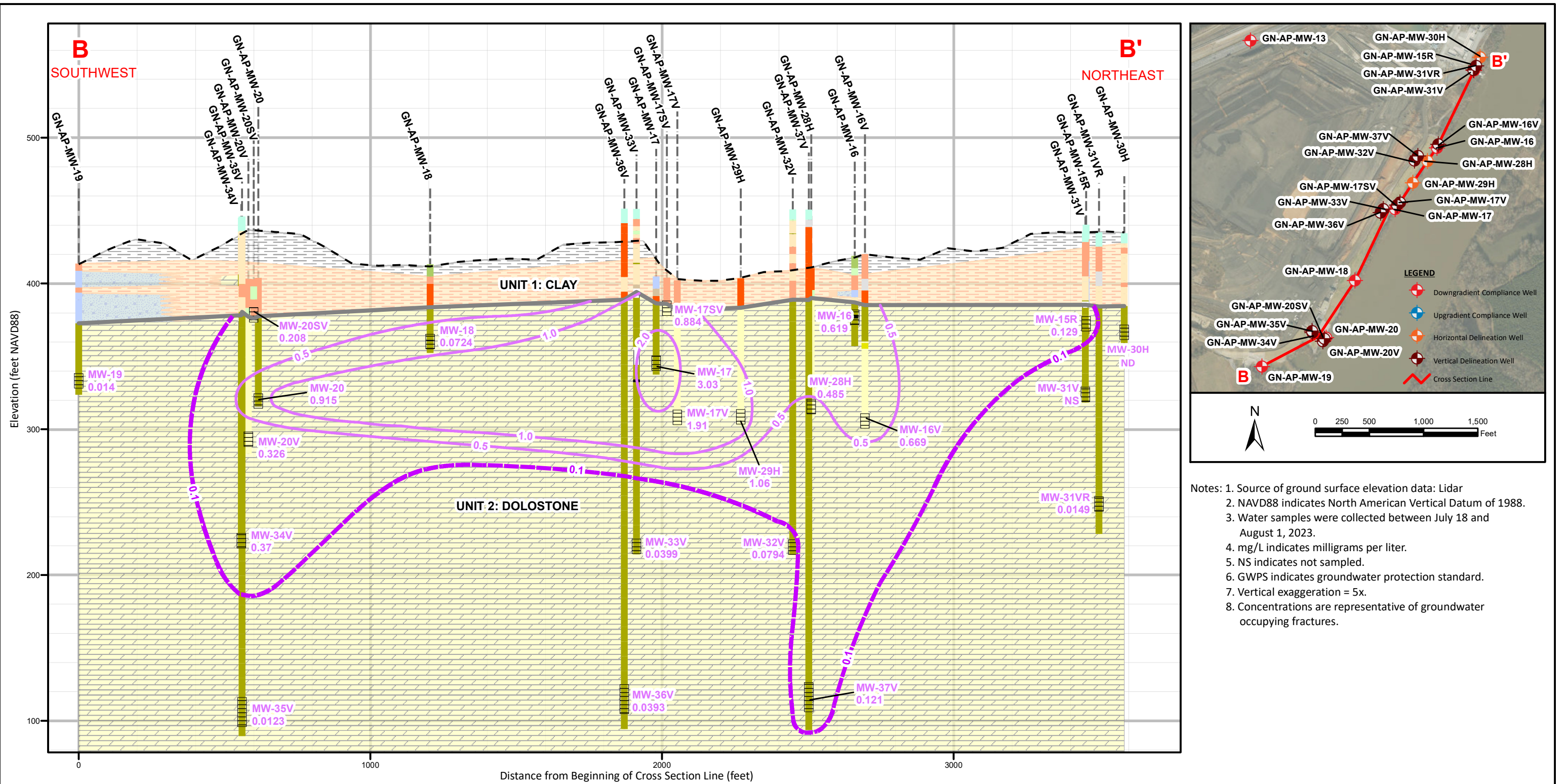
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Water samples were collected between July 18 and August 1, 2023.
 4. Concentrations are provided in milligrams per liter (mg/L).
 5. NS indicates not sampled.
 6. GWPS indicates groundwater protection standard.
 7. Vertical exaggeration = 5x.
 8. Concentrations are representative of groundwater occupying fractures.

LEGEND Ground Surface Elevation Well Location Screen Interval Arsenic GWPS Isoconcentration Contour (mg/L) 0.01 Arsenic GWPS (mg/L) 0.00223 Arsenic concentration (mg/L)	Borehole Description No Recovery Hydroexcavation Fill Rock Flour or Gypsum Topsoil	Geologic Units Fat Clays Lean Clays Silty Clay Silt Clayey Sand Clayey Gravel Sandstone Limestone Partially Weathered Rock Dolostone Discontinuity	SCALE AS SHOWN	DRAWING TITLE ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND		
			DATE 11/6/2023	FIGURE NO FIGURE 10A		
			DRAWN BY KAR			
			CHECKED BY ACP			



- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Water samples were collected between July 18 and August 1, 2023.
 4. mg/L indicates milligrams per liter.
 5. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 6. ND indicates not detected above the laboratory method detection limit.
 7. NS indicates not sampled.
 8. GWPS indicates groundwater protection standard.
 9. Vertical exaggeration = 5x.
 10. Concentrations are representative of groundwater occupying fractures.

LEGEND		Borehole Description		Geologic Units		SCALE	DRAWING TITLE
	Ground Surface Elevation		No Recovery		Fill	AS SHOWN	LITHIUM CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND
	Well Location		Hydroexcavation		Clays	DATE 11/1/2023	
	Screen Interval		Fill		Bedrock Residuum Gravel with Clay	DRAWN BY KAR	FIGURE NO
	Lithium Isoconcentration Contour (mg/L)		Rock Flour or Gypsum		Dolostone	CHECKED BY ACP	FIGURE 10B
	Lithium GWPS Isoconcentration Contour (mg/L)		Topsoil		Discontinuity		
	0.04 Lithium GWPS (mg/L)		Fat Clays		Clayey Gravel		
	0.134 Lithium concentration (mg/L)		Lean Clays		Sandstone		
			Silty Clay		Limestone		
			Clayey Sand		Partially Weathered Rock		
			Discontinuity		Unit Boundary		



- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Water samples were collected between July 18 and August 1, 2023.
 4. mg/L indicates milligrams per liter.
 5. NS indicates not sampled.
 6. GWPS indicates groundwater protection standard.
 7. Vertical exaggeration = 5x.
 8. Concentrations are representative of groundwater occupying fractures.

LEGEND Ground Surface Elevation Well Location Screen Interval Molybdenum Isoconcentration Contour (mg/L) Molybdenum GWPS Isoconcentration Contour (mg/L) 0.1 Molybdenum GWPS (mg/L) 0.302 Molybdenum concentration (mg/L)	Borehole Description No Recovery Hydroexcavation Fill Rock Flour or Gypsum Topsoil Fat Clays Lean Clays Silty Clay Clayey Sand Clayey Gravel Sandstone Limestone Partially Weathered Rock Dolostone Discontinuity Unit Boundary	Geologic Units Fill Clays Bedrock Residuum Gravel with Clay Dolostone Discontinuity Unit Boundary	SCALE AS SHOWN	DRAWING TITLE MOLYBDENUM CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT GASTON ASH POND	
			DATE 11/1/2023	FIGURE NO FIGURE 10C	
			DRAWN BY KAR		
			CHECKED BY ACP		

Tables



**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.



**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.



**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.



**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.



**Table 1c. - Piezometer 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-31V	Piezometer	Mid-Lower Knox Dolomite	33.23822	-86.46144	435.56	438.49	117.0	328.56	318.56	10	9/8/2019
GN-APW-7	Piezometer	Overburden (Base at Top of Knox Dolomite)	33.236649	-86.46279	445.51	448.38	59.8	398.61	388.61	10	6/20/2013
GN-APW-1	Piezometer	Upper Knox Dolomite	33.238713	-86.468562	420.78	423.90	37.4	396.48	386.48	10	6/13/2013
GN-APW-3	Piezometer	Upper Knox Dolomite	33.230403	-86.479055	445.10	448.13	52.1	406.00	396.00	10	6/17/2013
GN-APW-4	Piezometer	Upper Knox Dolomite	33.227998	-86.47633	440.20	442.95	41.6	411.40	401.40	10	6/18/2013
GN-APW-6	Piezometer	Upper Knox Dolomite	33.233167	-86.465258	447.70	450.74	72.7	388.00	378.00	10	6/20/2013

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.



**Table 1d. - 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.

Table 2. Parameters And Reporting Limits

Plant Gaston Ash Pond
07/18/2023 - 08/01/2023

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	1-40	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-64	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
Fluoride	SM4500F G 2017	0.125	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 200.7	0.01015	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	0.957-1.47	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



Table 3. Groundwater Elevations Summary

Plant Gaston Ash Pond
01/23/2023 - 07/17/2023

Measurement Date		01/23/2023		07/17/2023	
Well	TOC Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GN-AP-MW-10	425.69	4.96	420.73	5.66	420.03
GN-AP-MW-11	425.39	3.14	422.25	4.44	420.95
GN-AP-MW-12	425.22	0.00	Artesian	0.00	Artesian
GN-AP-MW-13	424.04	0.00	Artesian	1.03	423.01
GN-AP-MW-14	427.20	27.46	399.74	27.82	399.38
GN-AP-MW-15R	438.15	41.93	396.22	42.74	395.41
GN-AP-MW-16	422.30	22.98	399.32	23.23	399.07
GN-AP-MW-16V	422.88	19.68	403.20	21.56	401.32
GN-AP-MW-17	407.75	5.39	402.36	6.11	401.64
GN-AP-MW-17SV	406.92	9.52	397.40	9.72	397.20
GN-AP-MW-17V	405.25	4.99	400.26	5.18	400.07
GN-AP-MW-18	416.13	20.09	396.04	20.45	395.68
GN-AP-MW-19	416.16	2.17	413.99	2.62	413.54
GN-AP-MW-20	406.65	8.83	397.82	9.25	397.40
GN-AP-MW-20SV	405.78	9.45	396.33	9.85	395.93
GN-AP-MW-20V	406.25	8.12	398.13	8.56	397.69
GN-AP-MW-21	428.25	10.07	418.18	15.71	412.54
GN-AP-MW-22	427.11	6.11	421.00	13.88	413.23
GN-AP-MW-23D	428.69	4.82	423.87	14.51	414.18
GN-AP-MW-23S	429.15	4.85	424.30	14.86	414.29
GN-AP-MW-26	425.51	7.79	417.72	12.26	413.25
GN-AP-MW-27	428.35	3.47	424.88	13.85	414.50
GN-AP-MW-28H	413.90	13.23	400.67	13.43	400.47
GN-AP-MW-29H	407.06	4.88	402.18	4.81	402.25
GN-AP-MW-3	447.14	20.89	426.25	21.48	425.66
GN-AP-MW-30H	437.87	41.54	396.33	42.28	395.59
GN-AP-MW-31VR	438.65	42.11	396.54	43.01	395.64
GN-AP-MW-32V	453.77	46.16	407.61	46.08	407.69
GN-AP-MW-33V	454.29	43.61	410.68	43.49	410.80
GN-AP-MW-34V	447.98	46.12	401.86	46.36	401.62
GN-AP-MW-35V	449.39	48.31	401.08	48.71	400.68
GN-AP-MW-36V	454.37	43.76	410.61	43.79	410.58
GN-AP-MW-37V	453.46	46.02	407.44	46.73	406.73

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing;

N/A = Not Acquired

(1) Artesian = groundwater elevation above top of casing, therefore, cannot be measured



Table 3. Groundwater Elevations Summary

Plant Gaston Ash Pond
01/23/2023 - 07/17/2023

Measurement Date		01/23/2023		07/17/2023	
Well	TOC Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GN-AP-MW-38	404.93	5.55	399.38	8.58	396.35
GN-AP-MW-39	416.71	15.28	401.43	20.59	396.12
GN-AP-MW-4	440.57	10.08	430.49	22.19	418.38
GN-AP-MW-40	414.32	14.14	400.18	17.68	396.64
GN-AP-MW-41	407.28	7.51	399.77	10.76	396.52
GN-AP-MW-42	433.01	33.42	399.59	36.60	396.41
GN-AP-MW-5	431.30	7.28	424.02	17.03	414.27
GN-AP-MW-6	427.85	9.85	418.00	14.81	413.04
GN-AP-MW-7	420.02	3.86	416.16	6.56	413.46
GN-AP-MW-8	429.63	12.21	417.42	13.72	415.91
GN-AP-MW-9	424.85	4.98	419.87	5.72	419.13
GN-APW-1	423.90	3.59	420.31	2.98	420.92
GN-APW-3	448.13	32.68	415.45	35.31	412.82
GN-APW-4	442.95	18.51	424.44	28.26	414.69
GN-APW-6	450.74	54.68	396.06	55.03	395.71
GN-APW-7	448.38	40.97	407.41	40.66	407.72

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing;

N/A = Not Acquired

(1) Artesian = groundwater elevation above top of casing, therefore, cannot be measured



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Ash Pond
01/24/2023 - 02/07/2023

GN-AP-MW-4				
Sample Date = 2/7/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	59.7	52.2	13.41%
Chloride	mg/L	9.01	9.02	0.11%
Sulfate	mg/L	11.2	11	1.80%
Barium	mg/L	0.0151	0.0139	8.28%
Molybdenum	mg/L	0.00099	0.00086	14.80%
GN-AP-MW-27				
Sample Date = 2/6/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.155	0.157	1.28%
Calcium	mg/L	26.2	22.5	15.20%
Chloride	mg/L	12.9	12.9	0.00%
Sulfate	mg/L	11.9	12	0.84%
Barium	mg/L	0.0135	0.0136	0.74%
Molybdenum	mg/L	0.00424	0.00433	2.10%
GN-AP-MW-5				
Sample Date = 2/6/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.412	0.415	0.73%
Calcium	mg/L	56.7	49.2	14.16%
Chloride	mg/L	9.05	9.05	0.00%
Sulfate	mg/L	21.5	21	2.35%
Arsenic	mg/L	0.00034	0.00029	16.56%
Barium	mg/L	0.0204	0.0206	0.98%
Cobalt	mg/L	0.00021	0.00021	1.43%
Lead	mg/L	0.00035	0.00035	2.00%
Molybdenum	mg/L	0.0299	0.0287	4.10%
GN-AP-MW-42				
Sample Date = 2/1/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	11.7	11.8	0.85%
Chloride	mg/L	3.75	3.68	1.88%
Sulfate	mg/L	2.27	2.2	3.13%
Barium	mg/L	0.0147	0.0152	3.34%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Ash Pond
01/24/2023 - 02/07/2023

GN-AP-MW-20SV				
Sample Date = 1/24/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	2.62	2.63	0.38%
Calcium	mg/L	146	136	7.09%
Chloride	mg/L	17.3	17.3	0.00%
Sulfate	mg/L	351	356	1.41%
Arsenic	mg/L	0.00218	0.00222	1.82%
Barium	mg/L	0.111	0.114	2.67%
Cobalt	mg/L	0.00068	0.00067	1.93%
Molybdenum	mg/L	0.185	0.184	0.54%

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 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Ash Pond
07/19/2023 - 07/25/2023

GN-AP-MW-20SV				
Sample Date = 7/25/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	2.72	2.73	0.37%
Calcium	mg/L	130	131	0.77%
Chloride	mg/L	16.9	16.9	0.00%
Sulfate	mg/L	414	417	0.72%
Arsenic	mg/L	0.00229	0.00208	9.61%
Barium	mg/L	0.109	0.113	3.60%
Cobalt	mg/L	0.00071	0.00069	2.58%
Molybdenum	mg/L	0.208	0.206	0.97%
GN-AP-MW-27				
Sample Date = 7/25/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.143	0.141	1.41%
Calcium	mg/L	28.1	28.4	1.06%
Chloride	mg/L	12.8	12.7	0.78%
Sulfate	mg/L	10.7	10.7	0.00%
Barium	mg/L	0.0158	0.0156	1.27%
GN-AP-MW-17SV				
Sample Date = 7/24/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	2.55	2.61	2.33%
Calcium	mg/L	189	203	7.14%
Chloride	mg/L	215	209	2.83%
Sulfate	mg/L	326	355	8.52%
Arsenic	mg/L	0.0024	0.00228	5.13%
Barium	mg/L	0.121	0.122	0.82%
Cobalt	mg/L	0.00486	0.00462	5.06%
Lithium	mg/L	0.207	0.204	1.46%
Molybdenum	mg/L	0.884	0.905	2.35%
GN-AP-MW-16				
Sample Date = 7/19/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	1.51	1.49	1.33%
Calcium	mg/L	177	152	15.20%
Chloride	mg/L	180	191	5.93%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gaston Ash Pond
07/19/2023 - 07/25/2023

GN-AP-MW-16				
Sample Date = 7/19/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Sulfate	mg/L	234	211	10.34%
Arsenic	mg/L	0.00529	0.00496	6.44%
Barium	mg/L	0.113	0.109	3.60%
Cobalt	mg/L	0.00159	0.00152	4.50%
Lithium	mg/L	0.22	0.216	1.84%
Molybdenum	mg/L	0.619	0.62	0.16%
GN-AP-MW-30H				
Sample Date = 7/19/2023				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	95.9	93.9	2.11%
Chloride	mg/L	32.2	32.2	0.00%
Fluoride	mg/L	0.144	0.149	3.41%
Sulfate	mg/L	27.5	30.8	11.32%
Arsenic	mg/L	0.00464	0.00551	17.14%
Barium	mg/L	0.0681	0.0706	3.61%
Cobalt	mg/L	0.00123	0.00119	3.31%

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
01/24/2023 - 02/07/2023

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
01/24/2023	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



Table 4b. - Field QC: Blank Detections

Plant Gaston Ash Pond
07/19/2023 - 08/01/2023

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
08/01/2023	EB-1	Chromium	0.00021 J	mg/L	0.0002
07/31/2023	FB-5	Chromium	0.00021 J	mg/L	0.0002
07/24/2023	FB-4	Chromium	0.00028 J	mg/L	0.0002
07/19/2023	FB-1	Chromium	0.00021 J	mg/L	0.0002
07/19/2023	FB-2	Chromium	0.00027 J	mg/L	0.0002
07/24/2023	FB-4	Molybdenum	0.00676 J	mg/L	0.00508

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

Table 5. Summary of Background Levels and Groundwater Protection Standards

Plant Gaston Ash Pond

Appendix IV Analytes			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.001015	0.006
Arsenic	mg/L	0.00105	0.01
Barium	mg/L	0.0302	2
Beryllium	mg/L	0.001015	0.004
Cadmium	mg/L	0.000855	0.005
Chromium	mg/L	0.00113	0.1
Cobalt	mg/L	0.00168	0.006
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	0.01015	0.1
Selenium	mg/L	0.0102	0.05
Thallium	mg/L	0.000709	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).

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Upgradient	GN-AP-MW-3	02/07/2023	274.35	4.57	85.92	7.79	19.4	1.42
Upgradient	GN-AP-MW-38	02/01/2023	194.01	4.33	67.03	8.18	17.49	4.68
Upgradient	GN-AP-MW-39	02/07/2023	229.2	0.13	-155.08	7.58	18.17	0.67
Upgradient	GN-AP-MW-40	02/01/2023	190.53	7.21	70.6	8.04	18.16	2.06
Upgradient	GN-AP-MW-41	02/01/2023	246.42	4.95	78.85	7.75	17.28	2.79
Upgradient	GN-AP-MW-42	02/01/2023	125.9	6.38	178.55	6.52	17.75	3.79
Downgradient	GN-AP-MW-10	02/06/2023	335.09	0.78	-59.01	7.6	20.13	0.3
Downgradient	GN-AP-MW-11	01/25/2023	408.92	2.77	3.45	7.81	17.81	2.33
Downgradient	GN-AP-MW-12	02/06/2023	613.29	0.23	-111.65	7.45	19.43	0.81
Downgradient	GN-AP-MW-13	02/01/2023	371.22	0.11	-123.17	7.55	18.79	1.43
Downgradient	GN-AP-MW-14	01/31/2023	481.63	0.2	-184.67	7.62	19.74	0.5
Downgradient	GN-AP-MW-15R	01/24/2023	937.76	0.48	-107.75	7.6	19.05	0.33
Downgradient	GN-AP-MW-16	01/30/2023	855.51	0.1	-163.65	8.04	20.4	3.84
Downgradient	GN-AP-MW-17	01/30/2023	2184.63	0.12	-171.01	9.27	19.7	1.89
Downgradient	GN-AP-MW-18	01/24/2023	913.8	0.07	-8.02	6.84	19.38	2.12
Downgradient	GN-AP-MW-19	01/25/2023	412.96	0.7	-166.68	7.69	15.49	2.92
Downgradient	GN-AP-MW-20	01/24/2023	1182.38	0.2	-100.02	7.98	18.67	3.14
Downgradient	GN-AP-MW-21	02/06/2023	584.18	0.28	-74.76	7.12	18.8	1.78
Downgradient	GN-AP-MW-22	02/06/2023	480.24	0.63	91.24	6.88	19.25	0.5
Downgradient	GN-AP-MW-4	02/07/2023	473.31	1.34	28.35	7.3	18.93	1.32

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 measurement.
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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Downgradient	GN-AP-MW-5	02/06/2023	362.25	5.91	83.95	7.52	19.65	9.07
Downgradient	GN-AP-MW-6	02/06/2023	562.05	1.73	52.69	7.43	19.28	1.26
Downgradient	GN-AP-MW-7	01/25/2023	537.3	0.14	-54.05	7.61	17.62	1.81
Downgradient	GN-AP-MW-8	01/25/2023	485.38	1.22	-132.41	7.45	17.01	0.62
Downgradient	GN-AP-MW-9	01/25/2023	414.61	1.56	-123.32	7.75	14.84	0.42
Vert. Delineation	GN-AP-MW-16V	01/24/2023	567.97	0.44	-144.27	8.47	17.44	9.83
Vert. Delineation	GN-AP-MW-17SV	01/24/2023	1301.29	0.05	-104.17	7.55	20.54	2.94
Vert. Delineation	GN-AP-MW-17V	01/25/2023	1096.71	0.33	-239.29	8.35	18.12	5.54
Vert. Delineation	GN-AP-MW-20SV	01/24/2023	949.7	0.16	-118.22	7.07	19.36	6.86
Vert. Delineation	GN-AP-MW-20V	01/24/2023	1033.5	0.13	-184.51	8.13	18.58	8.24
Vert. Delineation	GN-AP-MW-23D	01/31/2023	579.15	0.71	-228.81	7.97	17.47	1.89
Vert. Delineation	GN-AP-MW-31VR	01/24/2023	523.18	0.96	-262.37	7.8	18.51	0.5
Vert. Delineation	GN-AP-MW-32V	02/07/2023	641.08	0.25	-252.34	7.42	19.79	0.48
Vert. Delineation	GN-AP-MW-33V	01/25/2023	586.13	0.38	-175.24	7.72	15.48	9.21
Vert. Delineation	GN-AP-MW-34V	01/31/2023	1012.97	0.17	-298.2	7.85	18.72	1.62
Vert. Delineation	GN-AP-MW-35V	02/07/2023	458.27	0.5	-244.79	8.17	18.99	0.37
Vert. Delineation	GN-AP-MW-36V	01/25/2023	1068.15	0.31	-274.7	8.12	15.04	1.46
Vert. Delineation	GN-AP-MW-37V	01/24/2023	464.47	0.61	-223.11	7.99	20.28	0.65
Horiz. Delineation	GN-AP-MW-23S	01/31/2023	407.06	3.64	1	7.19	19.21	1.88
Horiz. Delineation	GN-AP-MW-26	02/07/2023	582.31	3.44	130.8	7.58	18.07	0.37

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 measurement.
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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Horiz. Delineation	GN-AP-MW-27	02/06/2023	241.81	6.5	117.47	6.79	20.05	1.85
Horiz. Delineation	GN-AP-MW-28H	01/30/2023	479.92	0.14	-172.09	8.28	20.43	1.75
Horiz. Delineation	GN-AP-MW-29H	01/24/2023	585.13	0.29	-150.83	8.25	19.51	1.56
Horiz. Delineation	GN-AP-MW-30H	01/31/2023	758.68	0.21	-98.98	7.14	19.34	0.7

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- 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 measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

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	02/07/2023	<0.03	29	2.32	<0.06	7.79	2.6
Upgradient	GN-AP-MW-38	02/01/2023	<0.03	21.2	4.54	<0.06	8.18	1.28 J
Upgradient	GN-AP-MW-39	02/07/2023	<0.03	35.2	2.46	0.109 J	7.58	14.2
Upgradient	GN-AP-MW-40	02/01/2023	<0.03	20	2.05	<0.06	8.04	0.892 J
Upgradient	GN-AP-MW-41	02/01/2023	<0.03	27.2	2.61	<0.06	7.75	1.82 J
Upgradient	GN-AP-MW-42	02/01/2023	<0.03	11.7	3.75	0.0603 J	6.52	2.27
Downgradient	GN-AP-MW-10	02/06/2023	<0.03	45.4	2.95	<0.06	7.6	3.9
Downgradient	GN-AP-MW-11	01/25/2023	0.327	43	7.78	<0.06	7.81	57.8
Downgradient	GN-AP-MW-12	02/06/2023	0.463	76.3	19.7	0.0753 J	7.45	107
Downgradient	GN-AP-MW-13	02/01/2023	<0.03	44.8	4.54	0.0758 J	7.55	0.758 J
Downgradient	GN-AP-MW-14	01/31/2023	<0.03	66.6	5.23	0.106 J	7.62	104
Downgradient	GN-AP-MW-15R	01/24/2023	2.19	98.3	91.2	0.0768 J	7.6	219
Downgradient	GN-AP-MW-16	01/30/2023	1.45	131	122	0.117 J	8.04	186
Downgradient	GN-AP-MW-17	01/30/2023	3.49	374	436	0.123 J	9.27	444
Downgradient	GN-AP-MW-18	01/24/2023	1.68	138	14.1	<0.06	6.84	212
Downgradient	GN-AP-MW-19	01/25/2023	<0.03	43	14.1	<0.06	7.69	26.6
Downgradient	GN-AP-MW-20	01/24/2023	4.55	189	19.7	<0.06	7.98	554
Downgradient	GN-AP-MW-21	02/06/2023	1.46	83.3	25.7	0.0676 J	7.12	113
Downgradient	GN-AP-MW-22	02/06/2023	0.95	69.4	13.7	0.0686 J	6.88	67.2
Downgradient	GN-AP-MW-4	02/07/2023	0.0979 J	59.7	9.01	<0.06	7.3	11.2
Downgradient	GN-AP-MW-5	02/06/2023	0.412	56.7	9.05	0.0991 J	7.52	21.5

Notes:

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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 measurement.
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5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

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	02/06/2023	1.62	81.5	21.2	<0.06	7.43	103
Downgradient	GN-AP-MW-7	01/25/2023	1.44	71.4	14.5	<0.06	7.61	110
Downgradient	GN-AP-MW-8	01/25/2023	<0.03	53.1	3.58	0.0614 J	7.45	1.96 J
Downgradient	GN-AP-MW-9	01/25/2023	<0.03	29.1	9.4	0.101 J	7.75	18.6
Vert. Delineation	GN-AP-MW-16V	01/24/2023	1.4	52	50.7	0.0946 J	8.47	146
Vert. Delineation	GN-AP-MW-17SV	01/24/2023	2.62	198	186	0.103 J	7.55	316
Vert. Delineation	GN-AP-MW-17V	01/25/2023	2.17	121	160	<0.06	8.35	265
Vert. Delineation	GN-AP-MW-20SV	01/24/2023	2.62	146	17.3	0.092 J	7.07	351
Vert. Delineation	GN-AP-MW-20V	01/24/2023	2.83	127	19.9	0.117 J	8.13	437
Vert. Delineation	GN-AP-MW-23D	01/31/2023	1.37	36.3	51	0.0635 J	7.97	53.5
Vert. Delineation	GN-AP-MW-31VR	01/24/2023	0.144	48.9	17.5	0.204	7.8	33.5
Vert. Delineation	GN-AP-MW-32V	02/07/2023	0.458	54.9	26	0.14	7.42	137
Vert. Delineation	GN-AP-MW-33V	01/25/2023	0.141	49.6	24.2	0.234	7.72	20.9
Vert. Delineation	GN-AP-MW-34V	01/31/2023	2.84	129	17.6	0.0808 J	7.85	416
Vert. Delineation	GN-AP-MW-35V	02/07/2023	0.201	34.6	7.65	0.138	8.17	38.2
Vert. Delineation	GN-AP-MW-36V	01/25/2023	0.135	24.4	109	0.411	8.12	128
Vert. Delineation	GN-AP-MW-37V	01/24/2023	0.392	37.1	14.7	0.158	7.99	80.2
Horiz. Delineation	GN-AP-MW-23S	01/31/2023	0.313	48	16.7	0.0812 J	7.19	28.5
Horiz. Delineation	GN-AP-MW-26	02/07/2023	0.972	71.8	19.7	<0.06	7.58	88.1
Horiz. Delineation	GN-AP-MW-27	02/06/2023	0.155	26.2	12.9	<0.06	6.79	11.9
Horiz. Delineation	GN-AP-MW-28H	01/30/2023	0.802	44.6	24.7	0.0758 J	8.28	134

Notes:

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
01/24/2023 - 02/07/2023

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-29H	01/24/2023	1.19	52.8	38.9	<0.06	8.25	162
Horiz. Delineation	GN-AP-MW-30H	01/31/2023	0.0417 J	85.6	33.5	0.159	7.14	24.4

Notes:

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

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	02/07/2023	<0.000508	0.000466	0.0163	<0.000406	<6.8e-005	0.000462 J	<6.8e-005	<0.06
Upgradient	GN-AP-MW-38	02/01/2023	<0.000508	0.000112 J	0.00956	<0.000406	<6.8e-005	0.00041 J	0.000101 J	<0.06
Upgradient	GN-AP-MW-39	02/07/2023	<0.000508	0.000203	0.0287	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.109 J
Upgradient	GN-AP-MW-40	02/01/2023	<0.000508	<8.1e-005	0.00572	<0.000406	<6.8e-005	0.000818 J	<6.8e-005	<0.06
Upgradient	GN-AP-MW-41	02/01/2023	<0.000508	0.000108 J	0.0176	<0.000406	<6.8e-005	0.000327 J	7.33e-005 J	<0.06
Upgradient	GN-AP-MW-42	02/01/2023	<0.000508	0.000232	0.0147	<0.000406	9.55e-005 J	0.000724 J	0.000141 J	0.0603 J
Downgradient	GN-AP-MW-10	02/06/2023	<0.000508	0.000194 J	0.013	<0.000406	<6.8e-005	0.0003 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-11	01/25/2023	0.00275	0.000212	0.00984	<0.000406	<6.8e-005	0.00101 J	7.5e-005 J	<0.06
Downgradient	GN-AP-MW-12	02/06/2023	<0.000508	0.00233	0.0741	<0.000406	<6.8e-005	0.000279 J	0.000225	0.0753 J
Downgradient	GN-AP-MW-13	02/01/2023	<0.000508	0.00063	0.0378	<0.000406	<6.8e-005	<0.000203	0.000152 J	0.0758 J
Downgradient	GN-AP-MW-14	01/31/2023	<0.000508	0.000621	0.067	<0.000406	<6.8e-005	0.000209 J	<6.8e-005	0.106 J
Downgradient	GN-AP-MW-15R	01/24/2023	<0.000508	0.000708	0.056	<0.000406	<6.8e-005	<0.000203	0.000344	0.0768 J
Downgradient	GN-AP-MW-16	01/30/2023	0.000516 J	0.00588	0.0894	<0.000406	<6.8e-005	0.000272 J	0.00119	0.117 J
Downgradient	GN-AP-MW-17	01/30/2023	0.00191	0.00753	0.123	<0.000406	0.000261	<0.000203	<6.8e-005	0.123 J
Downgradient	GN-AP-MW-18	01/24/2023	<0.000508	0.00255	0.055	<0.000406	<6.8e-005	<0.000203	0.00238	<0.06
Downgradient	GN-AP-MW-19	01/25/2023	<0.000508	0.00165	0.0134	<0.000406	<6.8e-005	<0.000203	0.000132 J	<0.06
Downgradient	GN-AP-MW-20	01/24/2023	0.00188	0.00399	0.0532	<0.000406	<6.8e-005	<0.000203	<6.8e-005	<0.06
Downgradient	GN-AP-MW-21	02/06/2023	<0.000508	0.000813	0.0403	<0.000406	<6.8e-005	<0.000203	0.000721	0.0676 J
Downgradient	GN-AP-MW-22	02/06/2023	<0.000508	0.000115 J	0.0256	<0.000406	<6.8e-005	0.000237 J	0.000147 J	0.0686 J

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6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

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	02/07/2023	<6.8e-005	<0.007105	<0.0003	0.00393	<0.000508	0.000482	0.231 U
Upgradient	GN-AP-MW-38	02/01/2023	<6.8e-005	<0.007105	<0.0003	0.000151 J	<0.000508	<6.8e-005	0.0722 U
Upgradient	GN-AP-MW-39	02/07/2023	<6.8e-005	<0.007105	<0.0003	0.000954	<0.000508	<6.8e-005	0.632 U
Upgradient	GN-AP-MW-40	02/01/2023	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.389 U
Upgradient	GN-AP-MW-41	02/01/2023	6.88e-005 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.565 U
Upgradient	GN-AP-MW-42	02/01/2023	6.96e-005 J	<0.007105	<0.0003	<0.000102	0.000584 J	8.33e-005 J	0.531 U
Downgradient	GN-AP-MW-10	02/06/2023	<6.8e-005	<0.007105	<0.0003	0.000249	<0.000508	<6.8e-005	0.256 U
Downgradient	GN-AP-MW-11	01/25/2023	0.000107 J	<0.007105	<0.0003	0.000291	<0.000508	<6.8e-005	0.0749 U
Downgradient	GN-AP-MW-12	02/06/2023	<6.8e-005	<0.007105	<0.0003	0.000316	<0.000508	<6.8e-005	1.06
Downgradient	GN-AP-MW-13	02/01/2023	<6.8e-005	<0.007105	<0.0003	0.000341	<0.000508	<6.8e-005	0.682 U
Downgradient	GN-AP-MW-14	01/31/2023	<6.8e-005	<0.007105	<0.0003	0.000984	<0.000508	<6.8e-005	0.93
Downgradient	GN-AP-MW-15R	01/24/2023	<6.8e-005	0.0258	<0.0003	0.143	<0.000508	<6.8e-005	0.984
Downgradient	GN-AP-MW-16	01/30/2023	<6.8e-005	0.198	<0.0003	0.556	<0.000508	0.000105 J	6.1
Downgradient	GN-AP-MW-17	01/30/2023	7.01e-005 J	1.33	<0.0003	3.06	0.00059 J	0.000116 J	0.926 U
Downgradient	GN-AP-MW-18	01/24/2023	<6.8e-005	0.0457	<0.0003	0.071	<0.000508	0.000472	1.28
Downgradient	GN-AP-MW-19	01/25/2023	<6.8e-005	<0.007105	<0.0003	0.0154	<0.000508	<6.8e-005	0.626 U
Downgradient	GN-AP-MW-20	01/24/2023	<6.8e-005	0.138	<0.0003	0.915	<0.000508	<6.8e-005	11.9
Downgradient	GN-AP-MW-21	02/06/2023	<6.8e-005	<0.007105	<0.0003	0.012	<0.000508	<6.8e-005	0.38 U
Downgradient	GN-AP-MW-22	02/06/2023	<6.8e-005	<0.007105	<0.0003	0.0331	<0.000508	<6.8e-005	0.582 U

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
01/24/2023 - 02/07/2023

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-4	02/07/2023	<0.000508	0.000196 J	0.0151	<0.000406	<6.8e-005	0.000692 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-5	02/06/2023	<0.000508	0.00034	0.0204	<0.000406	<6.8e-005	0.000449 J	0.000209	0.0991 J
Downgradient	GN-AP-MW-6	02/06/2023	<0.000508	0.000114 J	0.02	<0.000406	<6.8e-005	<0.000203	<6.8e-005	<0.06
Downgradient	GN-AP-MW-7	01/25/2023	<0.000508	0.000136 J	0.0203	<0.000406	<6.8e-005	<0.000203	<6.8e-005	<0.06
Downgradient	GN-AP-MW-8	01/25/2023	<0.000508	0.000553	0.0134	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.0614 J
Downgradient	GN-AP-MW-9	01/25/2023	<0.000508	0.00295	0.111	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.101 J
Vert. Delineation	GN-AP-MW-16V	01/24/2023	0.00427	0.00116	0.0659	<0.000406	<6.8e-005	0.000392 J	0.00151	0.0946 J
Vert. Delineation	GN-AP-MW-17SV	01/24/2023	<0.000508	0.00179	0.128	<0.000406	9.52e-005 J	<0.000203	0.00349	0.103 J
Vert. Delineation	GN-AP-MW-17V	01/25/2023	0.00475	0.00146	0.0772	<0.000406	0.000166 J	<0.000203	8.73e-005 J	<0.06
Vert. Delineation	GN-AP-MW-20SV	01/24/2023	<0.000508	0.00218	0.111	<0.000406	<6.8e-005	<0.000203	0.000682	0.092 J
Vert. Delineation	GN-AP-MW-20V	01/24/2023	<0.000508	0.00235	0.0348	<0.000406	<6.8e-005	0.000234 J	0.000255	0.117 J
Vert. Delineation	GN-AP-MW-23D	01/31/2023	<0.000508	0.00142	0.0495	<0.000406	<6.8e-005	0.000231 J	<6.8e-005	0.0635 J
Vert. Delineation	GN-AP-MW-31VR	01/24/2023	<0.000508	0.0065	0.0314	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.204
Vert. Delineation	GN-AP-MW-32V	02/07/2023	<0.000508	0.00472	0.0527	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.14
Vert. Delineation	GN-AP-MW-33V	01/25/2023	0.0157	0.0145	0.0615	<0.000406	<6.8e-005	0.000256 J	8.49e-005 J	0.234
Vert. Delineation	GN-AP-MW-34V	01/31/2023	<0.000508	0.00321	0.0295	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.0808 J
Vert. Delineation	GN-AP-MW-35V	02/07/2023	<0.000508	0.00301	0.0154	<0.000406	<6.8e-005	0.000235 J	<6.8e-005	0.138
Vert. Delineation	GN-AP-MW-36V	01/25/2023	<0.000508	0.00299	0.0843	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.411
Vert. Delineation	GN-AP-MW-37V	01/24/2023	<0.000508	0.000801	0.0371	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.158
Horiz. Delineation	GN-AP-MW-23S	01/31/2023	<0.000508	0.000173 J	0.0185	<0.000406	<6.8e-005	0.000224 J	<6.8e-005	0.0812 J

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

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-4	02/07/2023	<6.8e-005	<0.007105	<0.0003	0.000994	<0.000508	<6.8e-005	0.885 U
Downgradient	GN-AP-MW-5	02/06/2023	0.000353	<0.007105	<0.0003	0.0299	<0.000508	<6.8e-005	0.147 U
Downgradient	GN-AP-MW-6	02/06/2023	<6.8e-005	<0.007105	<0.0003	0.00638	<0.000508	<6.8e-005	0.683 U
Downgradient	GN-AP-MW-7	01/25/2023	<6.8e-005	<0.007105	<0.0003	0.000484	<0.000508	<6.8e-005	0.658 U
Downgradient	GN-AP-MW-8	01/25/2023	<6.8e-005	<0.007105	<0.0003	0.000577	<0.000508	<6.8e-005	0.309 U
Downgradient	GN-AP-MW-9	01/25/2023	<6.8e-005	<0.007105	<0.0003	0.00114	<0.000508	<6.8e-005	0.441 U
Vert. Delineation	GN-AP-MW-16V	01/24/2023	0.000208	0.394	<0.0003	0.74	<0.000508	0.000719	3.45
Vert. Delineation	GN-AP-MW-17SV	01/24/2023	<6.8e-005	0.264	<0.0003	1.15	<0.000508	0.000294	1.57
Vert. Delineation	GN-AP-MW-17V	01/25/2023	6.84e-005 J	0.634	<0.0003	2.15	<0.000508	<6.8e-005	14
Vert. Delineation	GN-AP-MW-20SV	01/24/2023	<6.8e-005	0.00829 J	<0.0003	0.185	<0.000508	<6.8e-005	2.7
Vert. Delineation	GN-AP-MW-20V	01/24/2023	0.000161 J	0.0422	<0.0003	0.329	<0.000508	<6.8e-005	2.48
Vert. Delineation	GN-AP-MW-23D	01/31/2023	<6.8e-005	<0.007105	<0.0003	0.00131	0.000946 J	<6.8e-005	0.483 U
Vert. Delineation	GN-AP-MW-31VR	01/24/2023	<6.8e-005	<0.007105	<0.0003	0.0292	<0.000508	<6.8e-005	0.846
Vert. Delineation	GN-AP-MW-32V	02/07/2023	<6.8e-005	0.0604	<0.0003	0.145	<0.000508	<6.8e-005	1.56
Vert. Delineation	GN-AP-MW-33V	01/25/2023	<6.8e-005	0.0725	<0.0003	0.0228	<0.000508	<6.8e-005	1.07
Vert. Delineation	GN-AP-MW-34V	01/31/2023	<6.8e-005	0.0305	<0.0003	0.327	0.000599 J	<6.8e-005	0.515 U
Vert. Delineation	GN-AP-MW-35V	02/07/2023	<6.8e-005	<0.007105	<0.0003	0.0117	<0.000508	<6.8e-005	0.925
Vert. Delineation	GN-AP-MW-36V	01/25/2023	<6.8e-005	0.0151 J	<0.0003	0.0446	<0.000508	<6.8e-005	1.07
Vert. Delineation	GN-AP-MW-37V	01/24/2023	<6.8e-005	0.039	<0.0003	0.136	<0.000508	<6.8e-005	3.82
Horiz. Delineation	GN-AP-MW-23S	01/31/2023	<6.8e-005	<0.007105	<0.0003	0.00931	0.00108	<6.8e-005	0.609 U

Notes:

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Gaston Ash Pond
01/24/2023 - 02/07/2023**

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-26	02/07/2023	<0.000508	0.000102 J	0.0183	<0.000406	<6.8e-005	0.000303 J	<6.8e-005	<0.06
Horiz. Delineation	GN-AP-MW-27	02/06/2023	<0.000508	0.000165 J	0.0135	<0.000406	<6.8e-005	0.000248 J	<6.8e-005	<0.06
Horiz. Delineation	GN-AP-MW-28H	01/30/2023	<0.000508	0.00275	0.0328	<0.000406	<6.8e-005	0.000278 J	0.000319	0.0758 J
Horiz. Delineation	GN-AP-MW-29H	01/24/2023	<0.000508	0.00198	0.0638	<0.000406	0.000123 J	<0.000203	<6.8e-005	<0.06
Horiz. Delineation	GN-AP-MW-30H	01/31/2023	<0.000508	0.00343	0.0672	<0.000406	<6.8e-005	<0.000203	0.00135	0.159

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6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

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-26	02/07/2023	<6.8e-005	<0.007105	<0.0003	0.00254	<0.000508	<6.8e-005	0.0157 U
Horiz. Delineation	GN-AP-MW-27	02/06/2023	<6.8e-005	<0.007105	<0.0003	0.00424	<0.000508	<6.8e-005	0.517 U
Horiz. Delineation	GN-AP-MW-28H	01/30/2023	7.1e-005 J	0.152	<0.0003	0.475	<0.000508	0.000236	7.25
Horiz. Delineation	GN-AP-MW-29H	01/24/2023	<6.8e-005	0.335	<0.0003	1.08	<0.000508	<6.8e-005	17.8
Horiz. Delineation	GN-AP-MW-30H	01/31/2023	<6.8e-005	<0.007105	<0.0003	0.00237	<0.000508	<6.8e-005	1.91

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Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Carbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L	Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L
Upgradient	GN-AP-MW-3	02/07/2023	1.92	141	2.32	0.208 J	2.6	0.027 J	29	<0.00812
Upgradient	GN-AP-MW-38	02/01/2023	1.07	94.9	4.54	0.602	1.28 J	0.13	21.2	0.0637
Upgradient	GN-AP-MW-39	02/07/2023	1.21	105	2.46	<0.2	14.2	0.0109 J	35.2	0.314
Upgradient	GN-AP-MW-40	02/01/2023	1.41	94.5	2.05	0.711	0.892 J	0.0658	20	0.0379 J
Upgradient	GN-AP-MW-41	02/01/2023	0.898	123	2.61	0.536	1.82 J	0.0855	27.2	0.0606
Upgradient	GN-AP-MW-42	02/01/2023	NC	60.1	3.75	0.855	2.27	0.0636	11.7	0.0317 J
Downgradient	GN-AP-MW-10	02/06/2023	1.83	169	2.95	<0.2	3.9	<0.00609	45.4	<0.00812
Downgradient	GN-AP-MW-11	01/25/2023	1.32	126	7.78	0.787	57.8	0.0113 J	43	0.0132 J
Downgradient	GN-AP-MW-12	02/06/2023	1.36	187	19.7	<0.2	107	<0.00609	76.3	0.434
Downgradient	GN-AP-MW-13	02/01/2023	1.49	194	4.54	<0.2	0.758 J	0.00818 J	44.8	0.352
Downgradient	GN-AP-MW-14	01/31/2023	0.891	261	5.23	<0.2	104	<0.00609	66.6	0.649
Downgradient	GN-AP-MW-15R	01/24/2023	0.555	89.3	91.2	<0.2	219	<0.00609	98.3	0.0855
Downgradient	GN-AP-MW-16	01/30/2023	NC	27.8	122	<0.2	186	0.026 J	131	0.193
Downgradient	GN-AP-MW-17	01/30/2023	5.48	50.7	436	<0.2	444	0.0562	374	<0.00812
Downgradient	GN-AP-MW-18	01/24/2023	0.656	271	14.1	<0.2	212	<0.00609	138	0.364
Downgradient	GN-AP-MW-19	01/25/2023	2.32	171	14.1	<0.2	26.6	<0.00609	43	0.385
Downgradient	GN-AP-MW-20	01/24/2023	0.597	50.4	19.7	<0.2	554	<0.00609	189	0.0117 J
Downgradient	GN-AP-MW-21	02/06/2023	1.07	164	25.7	<0.2	113	0.00728 J	83.3	0.367
Downgradient	GN-AP-MW-22	02/06/2023	1.27	167	13.7	0.867	67.2	0.0106 J	69.4	0.0155 J
Downgradient	GN-AP-MW-4	02/07/2023	2.2	229	9.01	<0.2	11.2	0.0546	59.7	0.0428

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Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L
Upgradient	GN-AP-MW-3	02/07/2023	0.217 J	16.4	0.00148	1.99	7.64	3.57	2.07	143
Upgradient	GN-AP-MW-38	02/01/2023	<0.169505	11.9	0.00392	2.48	6.59	3.08	1.43 J	96
Upgradient	GN-AP-MW-39	02/07/2023	0.363 J	6.28	0.0524	4.02	11.4	5.34	2.11	106
Upgradient	GN-AP-MW-40	02/01/2023	0.188 J	12.1	0.00451	1.04	7.79	3.64	1.32 J	96
Upgradient	GN-AP-MW-41	02/01/2023	0.385 J	15.6	0.0123	1.71	6.78	3.17	2.02	124
Upgradient	GN-AP-MW-42	02/01/2023	0.241 J	7.48	0.0345	3.41	7.77	3.63	1.38 J	60.2
Downgradient	GN-AP-MW-10	02/06/2023	0.198 J	21.1	0.00117	2.12	8.37	3.91	2.3	171
Downgradient	GN-AP-MW-11	01/25/2023	0.378 J	22.2	0.00499	5.82	8.92	4.17	<1	127
Downgradient	GN-AP-MW-12	02/06/2023	0.293 J	38.1	0.103	9.64	8.73	4.08	2.86	188
Downgradient	GN-AP-MW-13	02/01/2023	0.28 J	22.7	0.109	4.48	8.88	4.15	2.85	196
Downgradient	GN-AP-MW-14	01/31/2023	0.554	25.3	0.0736	21.6	10.3	4.83	3.99	262
Downgradient	GN-AP-MW-15R	01/24/2023	6.15	27.9	0.361	64.5	6.72	3.14	<1	89.9
Downgradient	GN-AP-MW-16	01/30/2023	18.1	10.8	0.685	27.5	5.05	2.36	<1	27.9
Downgradient	GN-AP-MW-17	01/30/2023	46.1	13.6	0.0226	56.6	5.56	2.6	1.11 J	56.8
Downgradient	GN-AP-MW-18	01/24/2023	3.32	57.6	1.05	12	9.1	4.25	<1	272
Downgradient	GN-AP-MW-19	01/25/2023	0.38 J	22.1	0.00949	13.9	8.75	4.09	<1	173
Downgradient	GN-AP-MW-20	01/24/2023	8.83	62.3	0.00304	29.5	5.99	2.8	<1	51.1
Downgradient	GN-AP-MW-21	02/06/2023	2.54	25.7	0.155	16.9	6.18	2.89	2.78	165
Downgradient	GN-AP-MW-22	02/06/2023	2.02	22.1	0.0602	10.3	6.53	3.05	3.16	168
Downgradient	GN-AP-MW-4	02/07/2023	0.7	27.8	0.00268	5.63	9.48	4.43	3.27	231

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**Analytical Results Summary
Plant Gaston Ash Pond
01/24/2023 - 02/07/2023**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfide mg/L
Upgradient	GN-AP-MW-3	02/07/2023	0
Upgradient	GN-AP-MW-38	02/01/2023	0
Upgradient	GN-AP-MW-39	02/07/2023	0
Upgradient	GN-AP-MW-40	02/01/2023	0
Upgradient	GN-AP-MW-41	02/01/2023	0
Upgradient	GN-AP-MW-42	02/01/2023	0
Downgradient	GN-AP-MW-10	02/06/2023	0
Downgradient	GN-AP-MW-11	01/25/2023	0
Downgradient	GN-AP-MW-12	02/06/2023	0
Downgradient	GN-AP-MW-13	02/01/2023	0
Downgradient	GN-AP-MW-14	01/31/2023	0
Downgradient	GN-AP-MW-15R	01/24/2023	0
Downgradient	GN-AP-MW-16	01/30/2023	0
Downgradient	GN-AP-MW-17	01/30/2023	0
Downgradient	GN-AP-MW-18	01/24/2023	0
Downgradient	GN-AP-MW-19	01/25/2023	0
Downgradient	GN-AP-MW-20	01/24/2023	0
Downgradient	GN-AP-MW-21	02/06/2023	0
Downgradient	GN-AP-MW-22	02/06/2023	0
Downgradient	GN-AP-MW-4	02/07/2023	0

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Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L
Downgradient	GN-AP-MW-5	02/06/2023	1.06	159	9.05	0.994	21.5	0.217	56.7	0.156
Downgradient	GN-AP-MW-6	02/06/2023	1.22	156	21.2	1.49	103	0.0266 J	81.5	0.0197 J
Downgradient	GN-AP-MW-7	01/25/2023	1.76	145	14.5	<0.2	110	<0.00609	71.4	<0.00812
Downgradient	GN-AP-MW-8	01/25/2023	1.95	255	3.58	1.71	1.96 J	<0.00609	53.1	0.465
Downgradient	GN-AP-MW-9	01/25/2023	1.48	180	9.4	<0.2	18.6	<0.00609	29.1	0.281
Vert. Delineation	GN-AP-MW-16V	01/24/2023	0.722	32.8	50.7	<0.2	146	0.0527	52	0.0413
Vert. Delineation	GN-AP-MW-17SV	01/24/2023	NC	38.6	186	<0.2	316	0.0181 J	198	0.39
Vert. Delineation	GN-AP-MW-17V	01/25/2023	0.858	33.9	160	<0.2	265	0.0254 J	121	0.108
Vert. Delineation	GN-AP-MW-20SV	01/24/2023	NC	105	17.3	<0.2	351	<0.00609	146	9.36
Vert. Delineation	GN-AP-MW-20V	01/24/2023	0.671	68.2	19.9	<0.2	437	0.119	127	0.458
Vert. Delineation	GN-AP-MW-23D	01/31/2023	1.3	175	51	<0.2	53.5	0.0108 J	36.3	0.0298 J
Vert. Delineation	GN-AP-MW-31VR	01/24/2023	1.77	211	17.5	<0.2	33.5	0.0189 J	48.9	0.0414
Vert. Delineation	GN-AP-MW-32V	02/07/2023	0.992	124	26	<0.2	137	0.011 J	54.9	0.0492
Vert. Delineation	GN-AP-MW-33V	01/25/2023	2.49	264	24.2	<0.2	20.9	0.0253 J	49.6	0.193
Vert. Delineation	GN-AP-MW-34V	01/31/2023	0.605	81.1	17.6	<0.2	416	0.0102 J	129	0.303
Vert. Delineation	GN-AP-MW-35V	02/07/2023	4.04	201	7.65	<0.2	38.2	0.0132 J	34.6	0.0524
Vert. Delineation	GN-AP-MW-36V	01/25/2023	2.59	209	109	<0.2	128	0.0103 J	24.4	0.0241 J
Vert. Delineation	GN-AP-MW-37V	01/24/2023	2.05	117	14.7	<0.2	80.2	<0.00609	37.1	0.145
Horiz. Delineation	GN-AP-MW-23S	01/31/2023	NC	158	16.7	1.15	28.5	0.0113 J	48	<0.00812
Horiz. Delineation	GN-AP-MW-26	02/07/2023	1.31	180	19.7	1.46	88.1	<0.00609	71.8	<0.00812

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L
Downgradient	GN-AP-MW-5	02/06/2023	1.78	18.6	0.00667	5.98	8.35	3.9	2.76	160
Downgradient	GN-AP-MW-6	02/06/2023	2.38	24.9	0.00365	15.4	6.63	3.1	2.61	157
Downgradient	GN-AP-MW-7	01/25/2023	3.34	23.5	0.000749 J	10.6	6.76	3.16	<1	147
Downgradient	GN-AP-MW-8	01/25/2023	0.308 J	26.2	0.0146	15.2	9.97	4.66	2.1	257
Downgradient	GN-AP-MW-9	01/25/2023	0.526	14.7	0.0891	36.4	10.1	4.73	<1	182
Vert. Delineation	GN-AP-MW-16V	01/24/2023	19.5	16.6	0.0157	26.5	3.87	1.81	<1	33.6
Vert. Delineation	GN-AP-MW-17SV	01/24/2023	25.6	23	0.862	47.7	5.99	2.8	1.07 J	38.8
Vert. Delineation	GN-AP-MW-17V	01/25/2023	36.2	36.8	0.00993	49.1	3.34	1.56	<1	34.9
Vert. Delineation	GN-AP-MW-20SV	01/24/2023	0.742	56.7	0.181	16.6	16	7.5	<1	105
Vert. Delineation	GN-AP-MW-20V	01/24/2023	0.533	69.8	0.0269	18.4	7.68	3.59	<1	68.9
Vert. Delineation	GN-AP-MW-23D	01/31/2023	3.77	46.2	0.00831	23.7	11.2	5.23	<1	176
Vert. Delineation	GN-AP-MW-31VR	01/24/2023	1.04	25.5	0.0309	28	10.2	4.75	1.52 J	213
Vert. Delineation	GN-AP-MW-32V	02/07/2023	3.32	20.7	0.0958	34.7	10.7	5.01	3.05	125
Vert. Delineation	GN-AP-MW-33V	01/25/2023	4.95	25.1	0.085	61.6	15.2	7.12	4.45	267
Vert. Delineation	GN-AP-MW-34V	01/31/2023	0.599	67.3	0.05	22.9	8.45	3.95	2.42	81.7
Vert. Delineation	GN-AP-MW-35V	02/07/2023	0.89	23.1	0.0608	33.4	14.9	6.95	3.72	205
Vert. Delineation	GN-AP-MW-36V	01/25/2023	41.4	20.1	0.0351	143	7.28	3.4	5.21	212
Vert. Delineation	GN-AP-MW-37V	01/24/2023	2.32	19.1	0.00759	25.3	7.47	3.49	1.36 J	119
Horiz. Delineation	GN-AP-MW-23S	01/31/2023	0.575	22.4	0.00283	8.98	6.14	2.87	<1	158
Horiz. Delineation	GN-AP-MW-26	02/07/2023	1.1	28.9	0.000169 J	17.5	7.36	3.44	2.32	181

Notes:

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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 measurement.
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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
 Plant Gaston Ash Pond
 01/24/2023 - 02/07/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfide mg/L
Downgradient	GN-AP-MW-5	02/06/2023	0
Downgradient	GN-AP-MW-6	02/06/2023	0
Downgradient	GN-AP-MW-7	01/25/2023	0
Downgradient	GN-AP-MW-8	01/25/2023	0
Downgradient	GN-AP-MW-9	01/25/2023	0
Vert. Delineation	GN-AP-MW-16V	01/24/2023	0
Vert. Delineation	GN-AP-MW-17SV	01/24/2023	0
Vert. Delineation	GN-AP-MW-17V	01/25/2023	0
Vert. Delineation	GN-AP-MW-20SV	01/24/2023	0
Vert. Delineation	GN-AP-MW-20V	01/24/2023	0
Vert. Delineation	GN-AP-MW-23D	01/31/2023	1
Vert. Delineation	GN-AP-MW-31VR	01/24/2023	10
Vert. Delineation	GN-AP-MW-32V	02/07/2023	1
Vert. Delineation	GN-AP-MW-33V	01/25/2023	6
Vert. Delineation	GN-AP-MW-34V	01/31/2023	1
Vert. Delineation	GN-AP-MW-35V	02/07/2023	1
Vert. Delineation	GN-AP-MW-36V	01/25/2023	3
Vert. Delineation	GN-AP-MW-37V	01/24/2023	1
Horiz. Delineation	GN-AP-MW-23S	01/31/2023	0
Horiz. Delineation	GN-AP-MW-26	02/07/2023	0

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 01/24/2023 - 02/07/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Carbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L	Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L
Horiz. Delineation	GN-AP-MW-27	02/06/2023	0.525	92.7	12.9	1.14	11.9	0.0569	26.2	0.0385 J
Horiz. Delineation	GN-AP-MW-28H	01/30/2023	0.527	57.3	24.7	<0.2	134	0.0682	44.6	0.0623
Horiz. Delineation	GN-AP-MW-29H	01/24/2023	0.907	46.2	38.9	<0.2	162	0.00799 J	52.8	0.0354 J
Horiz. Delineation	GN-AP-MW-30H	01/31/2023	0.843	333	33.5	<0.2	24.4	<0.00609	85.6	0.813

Notes:

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- 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 measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Gaston Ash Pond
01/24/2023 - 02/07/2023**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L
Horiz. Delineation	GN-AP-MW-27	02/06/2023	0.641	13.1	0.00184	6.34	7.73	3.61	1.69 J	93.3
Horiz. Delineation	GN-AP-MW-28H	01/30/2023	11	18.2	0.0129	21.2	5.01	2.34	<1	57.9
Horiz. Delineation	GN-AP-MW-29H	01/24/2023	16	20.6	0.00246	30.3	4.56	2.13	<1	47.2
Horiz. Delineation	GN-AP-MW-30H	01/31/2023	0.746	45.9	0.224	28.4	12.9	6.04	1.55 J	334

Notes:

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
01/24/2023 - 02/07/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfide mg/L
Horiz. Delineation	GN-AP-MW-27	02/06/2023	0
Horiz. Delineation	GN-AP-MW-28H	01/30/2023	0
Horiz. Delineation	GN-AP-MW-29H	01/24/2023	0
Horiz. Delineation	GN-AP-MW-30H	01/31/2023	0

Notes:

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
07/18/2023 - 08/01/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Upgradient	GN-AP-MW-3	07/31/2023	269.49	4.58	66.41	7.75	21.15	9.88
Upgradient	GN-AP-MW-38	07/19/2023	179.9	4.26	200.82	7.78	18.65	6.32
Upgradient	GN-AP-MW-39	07/19/2023	222.77	0.36	-71.27	7.04	20.33	1.27
Upgradient	GN-AP-MW-40	07/19/2023	180.98	7.27	171.93	7.71	19.96	3.86
Upgradient	GN-AP-MW-41	07/19/2023	237.26	4.21	164.9	7.45	18.44	7.34
Upgradient	GN-AP-MW-42	07/18/2023	124.24	7.34	167.64	6.13	20.04	1.55
Downgradient	GN-AP-MW-10	07/18/2023	321.04	1.52	0.46	7.05	23.14	1.96
Downgradient	GN-AP-MW-11	07/31/2023	389.21	2.21	83.55	7.73	23.63	4.3
Downgradient	GN-AP-MW-12	07/18/2023	595.58	0.42	-88.84	7.26	23	2.3
Downgradient	GN-AP-MW-13	07/19/2023	385.58	1.21	-94.07	7.36	25.83	1.82
Downgradient	GN-AP-MW-14	07/26/2023	457.86	0.8	-136.38	7.36	22.31	2.14
Downgradient	GN-AP-MW-15R	08/01/2023	931.65	0.58	-29	7.48	21.24	0.24
Downgradient	GN-AP-MW-16	07/19/2023	942.82	0.09	-165.17	7.84	21.36	2.49
Downgradient	GN-AP-MW-17	07/25/2023	2214.14	0.19	-146.26	9.16	21.19	0.78
Downgradient	GN-AP-MW-18	07/25/2023	810.12	0.15	-20.24	6.9	20.15	1.58
Downgradient	GN-AP-MW-19	07/18/2023	370.88	2.04	-148.19	7.61	30.04	9.73
Downgradient	GN-AP-MW-20	07/25/2023	1071.2	0.17	-117.5	7.91	21.67	2.76
Downgradient	GN-AP-MW-21	07/26/2023	597.81	0.11	-41.27	7.44	19.37	1.75
Downgradient	GN-AP-MW-22	08/01/2023	506.33	0.14	169.19	6.88	20.16	0.17
Downgradient	GN-AP-MW-4	07/25/2023	433.52	1.1	45.12	7.2	20.26	2.71

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Downgradient	GN-AP-MW-5	08/01/2023	408.46	4.36	-73.37	7.45	21.21	7.99
Downgradient	GN-AP-MW-6	07/26/2023	554.19	1.98	222.31	7.05	19.47	1.46
Downgradient	GN-AP-MW-7	07/26/2023	499.63	1.07	217.38	7.35	20.73	1.82
Downgradient	GN-AP-MW-8	07/19/2023	464.72	1.92	-98.95	7.24	23.17	2.09
Downgradient	GN-AP-MW-9	07/18/2023	383.27	0.76	-146.27	7.64	25.84	1.8
Vert. Delineation	GN-AP-MW-16V	07/19/2023	660.34	0.46	-163.03	8.33	22.54	4.6
Vert. Delineation	GN-AP-MW-17SV	07/24/2023	1276.38	0.11	-114.23	7.24	21.74	3.24
Vert. Delineation	GN-AP-MW-17V	07/24/2023	1138.97	0.86	-205.12	8.21	25.75	5.6
Vert. Delineation	GN-AP-MW-20SV	07/25/2023	870.31	0.09	-141.87	7.12	20.18	8.92
Vert. Delineation	GN-AP-MW-20V	07/25/2023	963.58	0.35	-195.09	8.1	21.99	6.01
Vert. Delineation	GN-AP-MW-23D	07/25/2023	578.86	0.13	-239.72	7.81	22.28	2.09
Vert. Delineation	GN-AP-MW-31VR	07/19/2023	504.01	1.56	-185.47	7.54	26.17	2.17
Vert. Delineation	GN-AP-MW-32V	07/26/2023	600.28	0.14	-257.76	7.45	24.2	3.92
Vert. Delineation	GN-AP-MW-33V	07/24/2023	571.94	0.66	-194.6	7.56	25.31	7.75
Vert. Delineation	GN-AP-MW-34V	08/01/2023	960.32	0.22	-248.99	7.8	23.73	0.76
Vert. Delineation	GN-AP-MW-35V	08/01/2023	459.2	0.56	-185.07	8.2	25.12	0.69
Vert. Delineation	GN-AP-MW-36V	07/24/2023	947.26	0.28	-182.47	7.93	23.97	3.24
Vert. Delineation	GN-AP-MW-37V	07/26/2023	414.5	0.28	-255.68	8.06	24.8	3.9
Horiz. Delineation	GN-AP-MW-23S	07/25/2023	402.61	1.81	206.39	6.76	20.41	1.78
Horiz. Delineation	GN-AP-MW-26	07/25/2023	538.04	3.26	214.22	7.55	18.13	2.06

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
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Table 7. Second Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Gaston Ash Pond
07/18/2023 - 08/01/2023**

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Horiz. Delineation	GN-AP-MW-27	07/25/2023	270.99	4.97	194.6	7.06	20.55	2.23
Horiz. Delineation	GN-AP-MW-28H	07/19/2023	482.57	0.52	-186.85	8.2	23.21	0.36
Horiz. Delineation	GN-AP-MW-29H	07/19/2023	588.81	0.45	-169.43	8.17	25.88	2.06
Horiz. Delineation	GN-AP-MW-30H	07/19/2023	755.52	0.61	-69.86	6.81	22.87	1.82

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

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	07/31/2023	<0.03	32.7	2.96	0.0836 J	7.75	4.18
Upgradient	GN-AP-MW-38	07/19/2023	<0.03	20.4	4.37	<0.06	7.78	2.51
Upgradient	GN-AP-MW-39	07/19/2023	<0.03	35.3	2.14	0.107 J	7.04	13.1
Upgradient	GN-AP-MW-40	07/19/2023	<0.03	21.7	2	<0.06	7.71	1.7 J
Upgradient	GN-AP-MW-41	07/19/2023	<0.03	28.2	2.35	<0.06	7.45	2.04
Upgradient	GN-AP-MW-42	07/18/2023	<0.03	12.2	3.57	0.098 J	6.13	1.65 J
Downgradient	GN-AP-MW-10	07/18/2023	<0.03	38	2.72	<0.06	7.05	4.01
Downgradient	GN-AP-MW-11	07/31/2023	0.371	44.6	7.77	<0.06	7.73	69
Downgradient	GN-AP-MW-12	07/18/2023	0.483	69.3	18.7	<0.06	7.26	113
Downgradient	GN-AP-MW-13	07/19/2023	<0.03	45.6	4.19	0.0611 J	7.36	3.14
Downgradient	GN-AP-MW-14	07/26/2023	<0.03	53.8	4.43	0.104 J	7.36	91.9
Downgradient	GN-AP-MW-15R	08/01/2023	2.1	95.2	86.1	0.0627 J	7.48	233
Downgradient	GN-AP-MW-16	07/19/2023	1.51	177	180	0.111 J	7.84	234
Downgradient	GN-AP-MW-17	07/25/2023	3.56	379	532	0.102 J	9.16	493
Downgradient	GN-AP-MW-18	07/25/2023	1.65	128	13.3	0.0686 J	6.9	216
Downgradient	GN-AP-MW-19	07/18/2023	<0.03	52.9	14.1	<0.06	7.61	28.2
Downgradient	GN-AP-MW-20	07/25/2023	4.79	165	18.9	<0.06	7.91	614
Downgradient	GN-AP-MW-21	07/26/2023	1.33	70.1	21.8	<0.06	7.44	108
Downgradient	GN-AP-MW-22	08/01/2023	0.833	63.2	13.2	<0.06	6.88	59.3
Downgradient	GN-AP-MW-4	07/25/2023	0.0943 J	47.5	8.49	<0.06	7.2	11.4
Downgradient	GN-AP-MW-5	08/01/2023	0.464	48.4	10.1	<0.06	7.45	20.7

Notes:

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6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
07/18/2023 - 08/01/2023

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	07/26/2023	1.41	61.8	14.9	<0.06	7.05	93.9
Downgradient	GN-AP-MW-7	07/26/2023	1.16	59.1	11.4	<0.06	7.35	91.8
Downgradient	GN-AP-MW-8	07/19/2023	<0.03	60.1	3.51	0.0855 J	7.24	3.93
Downgradient	GN-AP-MW-9	07/18/2023	<0.03	30.2	9.03	0.134	7.64	20.8
Vert. Delineation	GN-AP-MW-16V	07/19/2023	1.43	83.3	92	0.0817 J	8.33	161
Vert. Delineation	GN-AP-MW-17SV	07/24/2023	2.55	189	215	0.105 J	7.24	326
Vert. Delineation	GN-AP-MW-17V	07/24/2023	2.12	132	209	0.0821 J	8.21	278
Vert. Delineation	GN-AP-MW-20SV	07/25/2023	2.72	130	16.9	0.085 J	7.12	414
Vert. Delineation	GN-AP-MW-20V	07/25/2023	3.08	122	19.7	<0.06	8.1	504
Vert. Delineation	GN-AP-MW-23D	07/25/2023	1.31	37.8	41.6	<0.06	7.81	57
Vert. Delineation	GN-AP-MW-31VR	07/19/2023	0.14	52.2	16.6	0.266	7.54	26
Vert. Delineation	GN-AP-MW-32V	07/26/2023	0.464	48.8	26	0.134	7.45	140
Vert. Delineation	GN-AP-MW-33V	07/24/2023	0.113	50.3	19.3	0.148	7.56	26.4
Vert. Delineation	GN-AP-MW-34V	08/01/2023	2.98	126	16.9	0.0858 J	7.8	470
Vert. Delineation	GN-AP-MW-35V	08/01/2023	0.195	34.2	7.56	0.132	8.2	37.5
Vert. Delineation	GN-AP-MW-36V	07/24/2023	0.121	23.2	88.8	0.42	7.93	121
Vert. Delineation	GN-AP-MW-37V	07/26/2023	0.355	39.5	13.2	0.146	8.06	81
Horiz. Delineation	GN-AP-MW-23S	07/25/2023	0.253	40.1	16.9	0.0709 J	6.76	24.9
Horiz. Delineation	GN-AP-MW-26	07/25/2023	0.88	56.1	14.6	<0.06	7.55	76.4
Horiz. Delineation	GN-AP-MW-27	07/25/2023	0.143	28.1	12.8	<0.06	7.06	10.7
Horiz. Delineation	GN-AP-MW-28H	07/19/2023	0.824	52.5	34.2	0.0831 J	8.2	127

Notes:

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- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- 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 measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
07/18/2023 - 08/01/2023

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-29H	07/19/2023	1.23	62.7	46	0.0829 J	8.17	180
Horiz. Delineation	GN-AP-MW-30H	07/19/2023	0.0463 J	95.9	32.2	0.144	6.81	27.5

Notes:

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- 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 measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

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	07/31/2023	<0.00071	0.000736	0.0157	<0.000406	<6.8e-005	0.000709 J	0.000246	0.0836 J
Upgradient	GN-AP-MW-38	07/19/2023	<0.00071	<0.000112	0.0131	<0.000406	<6.8e-005	0.000444 J	0.000104 J	<0.06
Upgradient	GN-AP-MW-39	07/19/2023	<0.00071	0.000296	0.029	<0.000406	<6.8e-005	0.000274 J	<6.8e-005	0.107 J
Upgradient	GN-AP-MW-40	07/19/2023	<0.00071	<0.000112	0.00652	<0.000406	<6.8e-005	0.000934 J	<6.8e-005	<0.06
Upgradient	GN-AP-MW-41	07/19/2023	<0.00071	<0.000112	0.0189	<0.000406	<6.8e-005	0.000295 J	0.000222	<0.06
Upgradient	GN-AP-MW-42	07/18/2023	<0.00071	<0.000112	0.00988	<0.000406	7.44e-005 J	0.000564 J	<6.8e-005	0.098 J
Downgradient	GN-AP-MW-10	07/18/2023	<0.00071	0.0002 J	0.0133	<0.000406	<6.8e-005	0.000335 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-11	07/31/2023	0.00322	0.000149 J	0.00987	<0.000406	<6.8e-005	0.000843 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-12	07/18/2023	<0.00071	0.00299	0.0727	<0.000406	<6.8e-005	<0.000203	0.000209	<0.06
Downgradient	GN-AP-MW-13	07/19/2023	<0.00071	0.000507	0.0415	<0.000406	<6.8e-005	0.000228 J	0.000144 J	0.0611 J
Downgradient	GN-AP-MW-14	07/26/2023	<0.00071	0.000657	0.0572	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.104 J
Downgradient	GN-AP-MW-15R	08/01/2023	<0.00071	0.000497	0.0525	<0.000406	<6.8e-005	0.000237 J	0.000213	0.0627 J
Downgradient	GN-AP-MW-16	07/19/2023	<0.00071	0.00529	0.113	<0.000406	<6.8e-005	0.00031 J	0.00159	0.111 J
Downgradient	GN-AP-MW-17	07/25/2023	0.00137	0.00747	0.119	<0.000406	0.000347	0.000225 J	<6.8e-005	0.102 J
Downgradient	GN-AP-MW-18	07/25/2023	<0.00071	0.00284	0.0499	<0.000406	<6.8e-005	0.000351 J	0.00154	0.0686 J
Downgradient	GN-AP-MW-19	07/18/2023	<0.00071	0.00223	0.0131	<0.000406	<6.8e-005	0.0012	0.00037	<0.06
Downgradient	GN-AP-MW-20	07/25/2023	0.000756 J	0.00424	0.0543	<0.000406	8.15e-005 J	0.000418 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-21	07/26/2023	<0.00071	0.000427	0.0349	<0.000406	<6.8e-005	<0.000203	0.000685	<0.06
Downgradient	GN-AP-MW-22	08/01/2023	<0.00071	<0.000112	0.0236	<0.000406	<6.8e-005	0.000247 J	8.75e-005 J	<0.06

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

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	07/31/2023	0.000729	<0.007105	<0.0003	<0.005075	<0.000508	0.000399	0.773 U
Upgradient	GN-AP-MW-38	07/19/2023	8.72e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.76
Upgradient	GN-AP-MW-39	07/19/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.984 U
Upgradient	GN-AP-MW-40	07/19/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.864 U
Upgradient	GN-AP-MW-41	07/19/2023	0.000101 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.891 U
Upgradient	GN-AP-MW-42	07/18/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.707 U
Downgradient	GN-AP-MW-10	07/18/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.000557 J	<6.8e-005	0.312 U
Downgradient	GN-AP-MW-11	07/31/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.339 U
Downgradient	GN-AP-MW-12	07/18/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.73 U
Downgradient	GN-AP-MW-13	07/19/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.36
Downgradient	GN-AP-MW-14	07/26/2023	6.89e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.51
Downgradient	GN-AP-MW-15R	08/01/2023	<6.8e-005	0.0265	<0.0003	0.129	<0.000508	<6.8e-005	1.13 U
Downgradient	GN-AP-MW-16	07/19/2023	<6.8e-005	0.22	<0.0003	0.619	<0.000508	<6.8e-005	6.83
Downgradient	GN-AP-MW-17	07/25/2023	<6.8e-005	1.28	<0.0003	3.03	<0.000508	0.000105 J	2.19
Downgradient	GN-AP-MW-18	07/25/2023	<6.8e-005	0.0463	<0.0003	0.0724	<0.000508	0.000436	2.75
Downgradient	GN-AP-MW-19	07/18/2023	0.000391	<0.007105	<0.0003	0.014	<0.000508	<6.8e-005	1.32
Downgradient	GN-AP-MW-20	07/25/2023	<6.8e-005	0.134	<0.0003	0.915	<0.000508	<6.8e-005	13.7
Downgradient	GN-AP-MW-21	07/26/2023	<6.8e-005	<0.007105	<0.0003	0.00956 J	<0.000508	<6.8e-005	0.841 U
Downgradient	GN-AP-MW-22	08/01/2023	<6.8e-005	<0.007105	<0.0003	0.0424	<0.000508	<6.8e-005	0.711 U

Notes:

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6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

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-4	07/25/2023	<0.00071	0.000137 J	0.0166	<0.000406	<6.8e-005	0.000835 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-5	08/01/2023	0.00132	0.000336	0.0216	<0.000406	<6.8e-005	0.000416 J	0.000152 J	<0.06
Downgradient	GN-AP-MW-6	07/26/2023	<0.00071	<0.000112	0.0186	<0.000406	<6.8e-005	<0.000203	<6.8e-005	<0.06
Downgradient	GN-AP-MW-7	07/26/2023	<0.00071	0.000154 J	0.017	<0.000406	<6.8e-005	0.000234 J	<6.8e-005	<0.06
Downgradient	GN-AP-MW-8	07/19/2023	<0.00071	0.000592	0.0123	<0.000406	<6.8e-005	0.000259 J	<6.8e-005	0.0855 J
Downgradient	GN-AP-MW-9	07/18/2023	<0.00071	0.00292	0.107	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.134
Vert. Delineation	GN-AP-MW-16V	07/19/2023	0.00779	0.00121	0.0841	<0.000406	<6.8e-005	0.000459 J	0.00159	0.0817 J
Vert. Delineation	GN-AP-MW-17SV	07/24/2023	<0.00071	0.0024	0.121	<0.000406	9.94e-005 J	0.000674 J	0.00486	0.105 J
Vert. Delineation	GN-AP-MW-17V	07/24/2023	0.0127	0.00147	0.0841	<0.000406	0.00018 J	0.000335 J	0.00015 J	0.0821 J
Vert. Delineation	GN-AP-MW-20SV	07/25/2023	<0.00071	0.00229	0.109	<0.000406	<6.8e-005	0.000247 J	0.000707	0.085 J
Vert. Delineation	GN-AP-MW-20V	07/25/2023	<0.00071	0.00244	0.0279	<0.000406	<6.8e-005	0.000305 J	9.53e-005 J	<0.06
Vert. Delineation	GN-AP-MW-23D	07/25/2023	<0.00071	0.001	0.0501	<0.000406	<6.8e-005	<0.000203	<6.8e-005	<0.06
Vert. Delineation	GN-AP-MW-31VR	07/19/2023	<0.00071	0.00609	0.0332	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.266
Vert. Delineation	GN-AP-MW-32V	07/26/2023	<0.00071	0.0038	0.0538	<0.000406	<6.8e-005	0.000448 J	<6.8e-005	0.134
Vert. Delineation	GN-AP-MW-33V	07/24/2023	0.029	0.0108	0.0514	<0.000406	<6.8e-005	0.000305 J	0.000133 J	0.148
Vert. Delineation	GN-AP-MW-34V	08/01/2023	<0.00071	0.00367	0.0341	<0.000406	<6.8e-005	0.000312 J	<6.8e-005	0.0858 J
Vert. Delineation	GN-AP-MW-35V	08/01/2023	<0.00071	0.00361	0.015	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.132
Vert. Delineation	GN-AP-MW-36V	07/24/2023	<0.00071	0.00343	0.078	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.42
Vert. Delineation	GN-AP-MW-37V	07/26/2023	<0.00071	0.00037	0.0356	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.146
Horiz. Delineation	GN-AP-MW-23S	07/25/2023	<0.00071	0.00013 J	0.0176	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.0709 J

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6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

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-4	07/25/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.632 U
Downgradient	GN-AP-MW-5	08/01/2023	0.00023	<0.007105	<0.0003	0.0335	<0.000508	<6.8e-005	0.856 U
Downgradient	GN-AP-MW-6	07/26/2023	<6.8e-005	<0.007105	<0.0003	0.00616 J	<0.000508	<6.8e-005	0.843 U
Downgradient	GN-AP-MW-7	07/26/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.1 U
Downgradient	GN-AP-MW-8	07/19/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.661 U
Downgradient	GN-AP-MW-9	07/18/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	1.2
Vert. Delineation	GN-AP-MW-16V	07/19/2023	0.000137 J	0.408	<0.0003	0.669	<0.000508	0.000757	4.54
Vert. Delineation	GN-AP-MW-17SV	07/24/2023	<6.8e-005	0.207	<0.0003	0.884	<0.000508	0.000188 J	1.81
Vert. Delineation	GN-AP-MW-17V	07/24/2023	<6.8e-005	0.631	<0.0003	1.91	<0.000508	<6.8e-005	17.4
Vert. Delineation	GN-AP-MW-20SV	07/25/2023	<6.8e-005	0.00918 J	<0.0003	0.208	<0.000508	<6.8e-005	1.82
Vert. Delineation	GN-AP-MW-20V	07/25/2023	0.000135 J	0.0422	<0.0003	0.326	<0.000508	<6.8e-005	3.34
Vert. Delineation	GN-AP-MW-23D	07/25/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.856 U
Vert. Delineation	GN-AP-MW-31VR	07/19/2023	<6.8e-005	<0.007105	<0.0003	0.0149	<0.000508	<6.8e-005	1.24
Vert. Delineation	GN-AP-MW-32V	07/26/2023	<6.8e-005	0.0655	<0.0003	0.0794	<0.000508	<6.8e-005	1.76
Vert. Delineation	GN-AP-MW-33V	07/24/2023	8.56e-005 J	0.0567	<0.0003	0.0399	<0.000508	<6.8e-005	2.64
Vert. Delineation	GN-AP-MW-34V	08/01/2023	<6.8e-005	0.0373	<0.0003	0.37	<0.000508	<6.8e-005	1.21 U
Vert. Delineation	GN-AP-MW-35V	08/01/2023	<6.8e-005	<0.007105	<0.0003	0.0123	<0.000508	<6.8e-005	1.21 U
Vert. Delineation	GN-AP-MW-36V	07/24/2023	<6.8e-005	0.0134 J	<0.0003	0.0393	<0.000508	<6.8e-005	2.13
Vert. Delineation	GN-AP-MW-37V	07/26/2023	<6.8e-005	0.0383	<0.0003	0.121	<0.000508	<6.8e-005	4.22
Horiz. Delineation	GN-AP-MW-23S	07/25/2023	<6.8e-005	<0.007105	<0.0003	0.0078 J	0.000684 J	<6.8e-005	1.06 U

Notes:

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6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

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-26	07/25/2023	<0.00071	0.000135 J	0.0178	<0.000406	<6.8e-005	0.000446 J	<6.8e-005	<0.06
Horiz. Delineation	GN-AP-MW-27	07/25/2023	<0.00071	0.000163 J	0.0158	<0.000406	<6.8e-005	0.0004 J	<6.8e-005	<0.06
Horiz. Delineation	GN-AP-MW-28H	07/19/2023	<0.00071	0.0026	0.0366	<0.000406	<6.8e-005	0.000218 J	0.000311	0.0831 J
Horiz. Delineation	GN-AP-MW-29H	07/19/2023	<0.00071	0.0023	0.0648	<0.000406	<6.8e-005	0.000286 J	6.91e-005 J	0.0829 J
Horiz. Delineation	GN-AP-MW-30H	07/19/2023	<0.00071	0.00464	0.0681	<0.000406	<6.8e-005	0.000232 J	0.00123	0.144

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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

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-26	07/25/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	0.419 U
Horiz. Delineation	GN-AP-MW-27	07/25/2023	<6.8e-005	<0.007105	<0.0003	0.00725 J	<0.000508	<6.8e-005	0.698 U
Horiz. Delineation	GN-AP-MW-28H	07/19/2023	<6.8e-005	0.159	<0.0003	0.485	<0.000508	0.000334	8.53
Horiz. Delineation	GN-AP-MW-29H	07/19/2023	<6.8e-005	0.336	<0.0003	1.06	<0.000508	<6.8e-005	18.2
Horiz. Delineation	GN-AP-MW-30H	07/19/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005	2.35

Notes:

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L
Upgradient	GN-AP-MW-3	07/31/2023	0	2.96	<0.2	4.18	0.198	32.7	0.0531	0.285 J
Upgradient	GN-AP-MW-38	07/19/2023	0	4.37	0.493	2.51	0.0947	20.4	0.0405 J	<0.169505
Upgradient	GN-AP-MW-39	07/19/2023	0	2.14	<0.2	13.1	0.015 J	35.3	0.326	0.355 J
Upgradient	GN-AP-MW-40	07/19/2023	0	2	0.557	1.7 J	0.0549	21.7	0.0141 J	0.19 J
Upgradient	GN-AP-MW-41	07/19/2023	0	2.35	0.412	2.04	0.0426 J	28.2	0.0416	0.398 J
Upgradient	GN-AP-MW-42	07/18/2023	0	3.57	0.748	1.65 J	0.0131 J	12.2	<0.00812	0.239 J
Downgradient	GN-AP-MW-10	07/18/2023	0	2.72	<0.2	4.01	<0.009135	38	<0.00812	0.199 J
Downgradient	GN-AP-MW-11	07/31/2023	0	7.77	0.77	69	0.0122 J	44.6	0.0085 J	0.266 J
Downgradient	GN-AP-MW-12	07/18/2023	0	18.7	<0.2	113	<0.009135	69.3	0.589	0.269 J
Downgradient	GN-AP-MW-13	07/19/2023	0	4.19	<0.2	3.14	<0.009135	45.6	0.408	0.295 J
Downgradient	GN-AP-MW-14	07/26/2023	0	4.43	<0.2	91.9	<0.009135	53.8	0.515	0.514
Downgradient	GN-AP-MW-15R	08/01/2023	0	86.1	<0.2	233	<0.009135	95.2	0.0784	5.5
Downgradient	GN-AP-MW-16	07/19/2023	0	180	<0.2	234	0.0168 J	177	0.163	20.5
Downgradient	GN-AP-MW-17	07/25/2023	0	532	<0.2	493	0.0452 J	379	<0.00812	49.2
Downgradient	GN-AP-MW-18	07/25/2023	0	13.3	<0.2	216	<0.009135	128	0.306	2.99
Downgradient	GN-AP-MW-19	07/18/2023	0	14.1	<0.2	28.2	0.237	52.9	0.611	0.381 J
Downgradient	GN-AP-MW-20	07/25/2023	0	18.9	<0.2	614	<0.009135	165	0.0167 J	6.59
Downgradient	GN-AP-MW-21	07/26/2023	0	21.8	<0.2	108	<0.009135	70.1	0.137	2.45
Downgradient	GN-AP-MW-22	08/01/2023	0	13.2	0.77	59.3	<0.009135	63.2	<0.00812	2.1
Downgradient	GN-AP-MW-4	07/25/2023	0	8.49	<0.2	11.4	0.0151 J	47.5	0.0207 J	0.663

Notes:

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L
Upgradient	GN-AP-MW-3	07/31/2023	18	0.0637	2.18	8.47	3.96	<1	144	1.84
Upgradient	GN-AP-MW-38	07/19/2023	11.4	0.00365	2.55	6.51	3.04	<1	94.2	1.45
Upgradient	GN-AP-MW-39	07/19/2023	6.43	0.0574	4.53	11.7	5.45	<1	111	0.965
Upgradient	GN-AP-MW-40	07/19/2023	12.1	0.00514	0.953	7.81	3.65	<1	100	1.72
Upgradient	GN-AP-MW-41	07/19/2023	16.2	0.104	0.831	6.59	3.08	<1	133	1.7
Upgradient	GN-AP-MW-42	07/18/2023	7.58	0.0294	2.63	7.64	3.57	<1	60	NC
Downgradient	GN-AP-MW-10	07/18/2023	20.4	0.00112	2.21	8.75	4.09	<1	173	1.25
Downgradient	GN-AP-MW-11	07/31/2023	22.7	0.000425 J	6.28	9.07	4.24	<1	126	1.17
Downgradient	GN-AP-MW-12	07/18/2023	36.8	0.1	9.8	9.05	4.23	<1	197	0.924
Downgradient	GN-AP-MW-13	07/19/2023	22.7	0.106	4.37	8.84	4.13	<1	215	1.13
Downgradient	GN-AP-MW-14	07/26/2023	21.6	0.055	24.6	9.67	4.52	<1	204	1.02
Downgradient	GN-AP-MW-15R	08/01/2023	28.4	0.225	52.5	6.93	3.24	<1	92.1	0.519
Downgradient	GN-AP-MW-16	07/19/2023	11.9	0.853	28.5	5.09	2.38	<1	27.5	NC
Downgradient	GN-AP-MW-17	07/25/2023	18.9	0.0314	52.1	6.21	2.9	1.03 J	15.1	2.11
Downgradient	GN-AP-MW-18	07/25/2023	55.6	0.673	10.9	9.18	4.29	<1	285	0.51
Downgradient	GN-AP-MW-19	07/18/2023	22.8	0.0186	12.7	9.12	4.26	<1	179	1.52
Downgradient	GN-AP-MW-20	07/25/2023	51.5	0.00314	28.7	6.01	2.81	<1	48.2	NC
Downgradient	GN-AP-MW-21	07/26/2023	27.8	0.15	18.3	6.31	2.95	<1	175	0.839
Downgradient	GN-AP-MW-22	08/01/2023	23.5	0.0434	10.9	6.7	3.13	<1	184	1.24
Downgradient	GN-AP-MW-4	07/25/2023	31	0.00405	6.36	9.63	4.5	<1	242	1.22

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

**Analytical Results Summary
Plant Gaston Ash Pond
07/18/2023 - 08/01/2023**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L
Upgradient	GN-AP-MW-3	07/31/2023	142
Upgradient	GN-AP-MW-38	07/19/2023	92.7
Upgradient	GN-AP-MW-39	07/19/2023	110
Upgradient	GN-AP-MW-40	07/19/2023	98.2
Upgradient	GN-AP-MW-41	07/19/2023	131
Upgradient	GN-AP-MW-42	07/18/2023	59.9
Downgradient	GN-AP-MW-10	07/18/2023	172
Downgradient	GN-AP-MW-11	07/31/2023	125
Downgradient	GN-AP-MW-12	07/18/2023	196
Downgradient	GN-AP-MW-13	07/19/2023	214
Downgradient	GN-AP-MW-14	07/26/2023	203
Downgradient	GN-AP-MW-15R	08/01/2023	91.6
Downgradient	GN-AP-MW-16	07/19/2023	27.3
Downgradient	GN-AP-MW-17	07/25/2023	12.1
Downgradient	GN-AP-MW-18	07/25/2023	284
Downgradient	GN-AP-MW-19	07/18/2023	177
Downgradient	GN-AP-MW-20	07/25/2023	47.9
Downgradient	GN-AP-MW-21	07/26/2023	174
Downgradient	GN-AP-MW-22	08/01/2023	183
Downgradient	GN-AP-MW-4	07/25/2023	241

Notes:

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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 measurement.
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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L
Downgradient	GN-AP-MW-5	08/01/2023	0	10.1	1.1	20.7	0.261	48.4	0.0878	1.88
Downgradient	GN-AP-MW-6	07/26/2023	0	14.9	1.78	93.9	<0.009135	61.8	<0.00812	2.31
Downgradient	GN-AP-MW-7	07/26/2023	0	11.4	<0.2	91.8	<0.009135	59.1	<0.00812	2.86
Downgradient	GN-AP-MW-8	07/19/2023	0	3.51	<0.2	3.93	<0.009135	60.1	0.431	0.315 J
Downgradient	GN-AP-MW-9	07/18/2023	0	9.03	<0.2	20.8	<0.009135	30.2	0.323	0.474 J
Vert. Delineation	GN-AP-MW-16V	07/19/2023	0	92	<0.2	161	0.0319 J	83.3	0.0536	20.9
Vert. Delineation	GN-AP-MW-17SV	07/24/2023	0	215	<0.2	326	<0.009135	189	0.857	23.5
Vert. Delineation	GN-AP-MW-17V	07/24/2023	0	209	<0.2	278	0.0215 J	132	0.0885	35.9
Vert. Delineation	GN-AP-MW-20SV	07/25/2023	0	16.9	<0.2	414	0.0102 J	130	9.84	0.655
Vert. Delineation	GN-AP-MW-20V	07/25/2023	0	19.7	<0.2	504	0.082	122	0.433	0.328 J
Vert. Delineation	GN-AP-MW-23D	07/25/2023	2	41.6	<0.2	57	<0.009135	37.8	0.0285 J	3.42
Vert. Delineation	GN-AP-MW-31VR	07/19/2023	3	16.6	<0.2	26	<0.009135	52.2	0.0511	1.06
Vert. Delineation	GN-AP-MW-32V	07/26/2023	1	26	<0.2	140	0.0142 J	48.8	0.0373 J	3.67
Vert. Delineation	GN-AP-MW-33V	07/24/2023	7	19.3	<0.2	26.4	0.0268 J	50.3	0.337	4.23
Vert. Delineation	GN-AP-MW-34V	08/01/2023	1	16.9	<0.2	470	0.0181 J	126	0.372	0.474 J
Vert. Delineation	GN-AP-MW-35V	08/01/2023	1	7.56	<0.2	37.5	<0.009135	34.2	0.113	0.82
Vert. Delineation	GN-AP-MW-36V	07/24/2023	2	88.8	<0.2	121	0.0154 J	23.2	0.0617	35.1
Vert. Delineation	GN-AP-MW-37V	07/26/2023	1	13.2	<0.2	81	<0.009135	39.5	0.0955	2.1
Horiz. Delineation	GN-AP-MW-23S	07/25/2023	0	16.9	1.36	24.9	0.0134 J	40.1	<0.00812	0.412 J
Horiz. Delineation	GN-AP-MW-26	07/25/2023	0	14.6	1.6	76.4	<0.009135	56.1	<0.00812	1.04

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5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

**Analytical Results Summary
Plant Gaston Ash Pond
07/18/2023 - 08/01/2023**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L
Downgradient	GN-AP-MW-5	08/01/2023	21.9	0.00692	7.19	8.58	4.01	<1	184	1.39
Downgradient	GN-AP-MW-6	07/26/2023	26.3	0.000974 J	14.2	6.31	2.95	<1	174	1.62
Downgradient	GN-AP-MW-7	07/26/2023	21.8	0.00109	9.26	6.76	3.16	<1	153	1.46
Downgradient	GN-AP-MW-8	07/19/2023	25.2	0.0148	16.2	9.93	4.64	2.2	260	1.6
Downgradient	GN-AP-MW-9	07/18/2023	14.3	0.0868	36.4	9.97	4.66	<1	180	2.01
Vert. Delineation	GN-AP-MW-16V	07/19/2023	20	0.0213	26.4	4.02	1.88	<1	33.8	NC
Vert. Delineation	GN-AP-MW-17SV	07/24/2023	27.8	1.16	43.2	5.65	2.64	<1	38.9	NC
Vert. Delineation	GN-AP-MW-17V	07/24/2023	44	0.0129	42.9	3.42	1.6	<1	37.5	NC
Vert. Delineation	GN-AP-MW-20SV	07/25/2023	49.8	0.179	15.9	15.8	7.36	<1	96.8	NC
Vert. Delineation	GN-AP-MW-20V	07/25/2023	71.2	0.0118	17.9	7.7	3.6	<1	69.4	0.972
Vert. Delineation	GN-AP-MW-23D	07/25/2023	39.5	0.00868	22.8	10.6	4.97	<1	177	2.07
Vert. Delineation	GN-AP-MW-31VR	07/19/2023	24	0.0369	30.4	10.7	4.99	1.81 J	227	2.11
Vert. Delineation	GN-AP-MW-32V	07/26/2023	22.6	0.1	46.3	11.5	5.38	1.45 J	126	NC
Vert. Delineation	GN-AP-MW-33V	07/24/2023	25.2	0.0862	31.7	12	5.63	3.82	261	1.77
Vert. Delineation	GN-AP-MW-34V	08/01/2023	60.7	0.0428	30.8	9.07	4.24	1.44 J	80.9	0.547
Vert. Delineation	GN-AP-MW-35V	08/01/2023	23.7	0.0357	39.6	16.3	7.6	1.18 J	220	3.09
Vert. Delineation	GN-AP-MW-36V	07/24/2023	20.3	0.034	120	7.19	3.36	5.2	209	2.8
Vert. Delineation	GN-AP-MW-37V	07/26/2023	20	0.00418	20.3	7.13	3.33	<1	121	1.05
Horiz. Delineation	GN-AP-MW-23S	07/25/2023	23.4	0.00536	8.74	5.82	2.72	<1	164	0.545
Horiz. Delineation	GN-AP-MW-26	07/25/2023	29.1	0.00083 J	16.8	7.32	3.42	<1	184	1.14

Notes:

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

**Analytical Results Summary
Plant Gaston Ash Pond
07/18/2023 - 08/01/2023**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L
Downgradient	GN-AP-MW-5	08/01/2023	183
Downgradient	GN-AP-MW-6	07/26/2023	172
Downgradient	GN-AP-MW-7	07/26/2023	151
Downgradient	GN-AP-MW-8	07/19/2023	258
Downgradient	GN-AP-MW-9	07/18/2023	178
Vert. Delineation	GN-AP-MW-16V	07/19/2023	33.3
Vert. Delineation	GN-AP-MW-17SV	07/24/2023	38.8
Vert. Delineation	GN-AP-MW-17V	07/24/2023	37
Vert. Delineation	GN-AP-MW-20SV	07/25/2023	96.7
Vert. Delineation	GN-AP-MW-20V	07/25/2023	68.4
Vert. Delineation	GN-AP-MW-23D	07/25/2023	175
Vert. Delineation	GN-AP-MW-31VR	07/19/2023	225
Vert. Delineation	GN-AP-MW-32V	07/26/2023	125
Vert. Delineation	GN-AP-MW-33V	07/24/2023	259
Vert. Delineation	GN-AP-MW-34V	08/01/2023	80.3
Vert. Delineation	GN-AP-MW-35V	08/01/2023	217
Vert. Delineation	GN-AP-MW-36V	07/24/2023	206
Vert. Delineation	GN-AP-MW-37V	07/26/2023	120
Horiz. Delineation	GN-AP-MW-23S	07/25/2023	163
Horiz. Delineation	GN-AP-MW-26	07/25/2023	183

Notes:

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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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L
Horiz. Delineation	GN-AP-MW-27	07/25/2023	0	12.8	1.06	10.7	0.0304 J	28.1	0.0126 J	0.697
Horiz. Delineation	GN-AP-MW-28H	07/19/2023	0	34.2	<0.2	127	0.013 J	52.5	0.0281 J	12.1
Horiz. Delineation	GN-AP-MW-29H	07/19/2023	0	46	<0.2	180	0.0154 J	62.7	0.087	16.8
Horiz. Delineation	GN-AP-MW-30H	07/19/2023	0	32.2	<0.2	27.5	<0.009135	95.9	1.17	0.956

Notes:

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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 measurement.
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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gaston Ash Pond 07/18/2023 - 08/01/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L
Horiz. Delineation	GN-AP-MW-27	07/25/2023	15.1	0.000548 J	7.35	7.28	3.4	<1	116	NC
Horiz. Delineation	GN-AP-MW-28H	07/19/2023	19.3	0.013	21.2	4.79	2.24	<1	57.6	0.844
Horiz. Delineation	GN-AP-MW-29H	07/19/2023	21	0.00361	30.1	4.52	2.11	<1	44.8	NC
Horiz. Delineation	GN-AP-MW-30H	07/19/2023	45.9	0.237	33.5	13.5	6.31	<1	347	1.15

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 measurement.
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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gaston Ash Pond
07/18/2023 - 08/01/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Bicarbonate Alkalinity as CaCO ₃ mg CaCO ₃ /L
Horiz. Delineation	GN-AP-MW-27	07/25/2023	116
Horiz. Delineation	GN-AP-MW-28H	07/19/2023	56.7
Horiz. Delineation	GN-AP-MW-29H	07/19/2023	44.5
Horiz. Delineation	GN-AP-MW-30H	07/19/2023	346

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 measurement.
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 - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Appendix A



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
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	
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	--
Calcium	mg/L	31.6	29.6	30	30.6	30.4	<0.1	30.1	29.9	28.1		--
Chloride	mg/L	2.48	1.9	1.93	1.77	1.98	2.3	2.2	1.7 J	2.1		--
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
pH_Field	pH	7.82	7.79	7.96	7.79	7.72	7.68	7.69	7.67	7.73		7.84
Sulfate	mg/L	7.57	5.12	4.63	3.19	3.71	3.4 J	2 J	2.5 J	2.4 J		--
TDS	mg/L	147	140	146	141	157	148	141	126	146		--
Appendix IV												
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000613 J	<0.0006	<0.0006	--		<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--		<0.001
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
Beryllium	mg/L	<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
Chromium	mg/L	<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
Combined Radium 226 + 228	pCi/L	1 U	0.222 U	0.118 U	0.265 U	0.295 U	0.0981 U	--	0.194 U	--		0.753
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
Lead	mg/L	0.00128 J	<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
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--		<0.00025
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
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--		<0.002
Thallium	mg/L	0.000648 J	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)

APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-3												GN-AP-MW-38
		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	08/30/2022	02/07/2023	07/31/2023	04/12/2021
Boron	mg/L	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	31.2	32.3	31.6	31.7	32.3	31	30.6	30.7	29.9	30.6	29	32.7	23.2
Chloride	mg/L	1.7 J	1.7 J	1.65	1.93	1.81	1.83	1.91	1.9	1.67	1.64	2.32	2.96	5.88
Fluoride	mg/L	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	0.0801 J	0.0805 J	<0.06	<0.06	<0.06	0.0836 J	<0.06
pH_Field	pH	7.69	7.7	7.8	7.8	7.8	7.69	7.67	7.81	7.72	9.22	7.79	7.75	7.99
Sulfate	mg/L	1.9 J	2.7 J	3.24	4.51	3.73	4.11	3.2	2.76	2.16	2.73	2.6	4.18	12.6
TDS	mg/L	143	148	140	145	149	154	136	132	141	151	141	150	129
Antimony	mg/L	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.000507
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000829	0.000731	0.000577	0.00063	0.000466	0.000736	0.000283
Barium	mg/L	0.00625 J	0.00708 J	0.00625 J	0.00834 J	0.00697 J	0.0192	0.0222	0.021	0.0222	0.0177	0.0163	0.0157	0.008
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00065 J	0.000499 J	0.000438 J	0.000458 J	0.000462 J	0.000709 J	0.000599 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	0.000184 J	<6.8e-005	0.000246	9.61e-005 J
Combined Radium 226 + 228	pCi/L	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	0.842 U	0.231 U	0.773 U	0.369 U
Fluoride	mg/L	<0.032	<0.032	<0.05	<0.05	<0.05	<0.06	0.0801 J	0.0805 J	<0.06	<0.06	<0.06	0.0836 J	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	0.000615	<6.8e-005	0.000729	0.000124 J
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<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	0.00659 J	0.00669 J	0.00766 J	0.00644 J	0.00575 J	0.0058 J	0.00538	0.00469	0.00439	0.00435	0.00393	<0.005075	0.000402
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000507
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000203 J	8.13e-005 J	0.000358	0.000709	0.000482	0.000399	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)

APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-38					GN-AP-MW-39					
		09/21/2021	04/19/2022	08/29/2022	02/01/2023	07/19/2023	04/12/2021	09/21/2021	04/19/2022	08/29/2022	02/07/2023	07/19/2023
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	22.3	23.3	23.1	21.2	20.4	35	35.9	36.4	36.4	35.2	35.3
Chloride	mg/L	6.09	5.24	4.26	4.54	4.37	2.91	2.94	2.22	2.06	2.46	2.14
Fluoride	mg/L	0.0969 J	<0.06	<0.06	<0.06	<0.06	0.163	0.181	0.107 J	0.0988 J	0.109 J	0.107 J
pH_Field	pH	7.85	7.91	8.09	8.18	7.78	7.09	7.3	6.85	7.09	7.58	7.04
Sulfate	mg/L	5.49	2.72	2.81	1.28 J	2.51	14.6	14.5	11.4	12.4	14.2	13.1
TDS	mg/L	115	122	102	104	103	146	139	144	136	145	148
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071
Arsenic	mg/L	0.000126 J	0.000194 J	0.000109 J	0.000112 J	<0.000112	0.000946	0.000489	0.000426	0.000281	0.000203	0.000296
Barium	mg/L	0.0101	0.00686	0.00439	0.00956	0.0131	0.0226	0.0289	0.0279	0.0302	0.0287	0.029
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
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
Chromium	mg/L	0.000792 J	0.000662 J	0.000511 J	0.00041 J	0.000444 J	0.000345 J	0.000331 J	0.000299 J	<0.000203	<0.000203	0.000274 J
Cobalt	mg/L	8.24e-005 J	0.000132 J	9.99e-005 J	0.000101 J	0.000104 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.655 U	0.024 U	0.53 U	0.0722 U	1.76	0.176 U	0.723 U	1.02	0.527 U	0.632 U	0.984 U
Fluoride	mg/L	0.0969 J	<0.06	<0.06	<0.06	<0.06	0.163	0.181	0.107 J	0.0988 J	0.109 J	0.107 J
Lead	mg/L	0.000119 J	9.59e-005 J	<6.8e-005	<6.8e-005	8.72e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
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
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
Molybdenum	mg/L	0.000172 J	0.0002 J	0.000156 J	0.000151 J	<0.005075	0.00167	0.00103	0.000738	0.000816	0.000954	<0.005075
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508	<0.000508	<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

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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-40			GN-AP-MW-40			GN-AP-MW-41						
		04/12/2021	09/21/2021	04/19/2022	08/29/2022	02/01/2023	07/19/2023	04/12/2021	09/21/2021	04/19/2022	08/29/2022	02/01/2023	07/19/2023	
Boron	mg/L	0.0342 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	22.9	21.6	21.6	21.3	20	21.7	26.6	31.8	29.4	30.8	27.2	28.2	
Chloride	mg/L	4.13	2.19	2.03	1.74	2.05	2	3.05	2.75	2.71	2.15	2.61	2.35	
Fluoride	mg/L	0.0651 J	0.083 J	<0.06	<0.06	<0.06	<0.06	<0.06	0.113	<0.06	<0.06	<0.06	<0.06	
pH_Field	pH	7.77	7.12	7.68	7.73	8.04	7.71	7.18	7.3	6.8	7.57	7.75	7.45	
Sulfate	mg/L	7.23	1.31	0.934 J	<0.6	0.892 J	1.7 J	2.99	1.44	1.37 J	2.24	1.82 J	2.04	
TDS	mg/L	118	111	107	94.7	98.7	109	126	148	138	133	122	133	
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	
Arsenic	mg/L	0.000195 J	0.0001 J	0.000172 J	8.18e-005 J	<8.1e-005	<0.000112	0.000179 J	<6.8e-005	0.000138 J	<8.1e-005	0.000108 J	<0.000112	
Barium	mg/L	0.0107	0.00746	0.00636	0.00619	0.00572	0.00652	0.0155	0.022	0.0185	0.0212	0.0176	0.0189	
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	
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	
Chromium	mg/L	0.000871 J	0.00113	0.00106	0.000944 J	0.000818 J	0.000934 J	0.000441 J	0.000434 J	0.000477 J	0.000279 J	0.000327 J	0.000295 J	
Cobalt	mg/L	0.000109 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000167 J	<6.8e-005	8.06e-005 J	<6.8e-005	7.33e-005 J	0.000222	
Combined Radium 226 + 228	pCi/L	0.161 U	0.737 U	0.455 U	0.00194 U	0.389 U	0.864 U	0.456 U	0.828 U	0.392 U	0.246 U	0.565 U	0.891 U	
Fluoride	mg/L	0.0651 J	0.083 J	<0.06	<0.06	<0.06	<0.06	<0.06	0.113	<0.06	<0.06	<0.06	<0.06	
Lead	mg/L	0.000114 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000122 J	<6.8e-005	<6.8e-005	<6.8e-005	6.88e-005 J	0.000101 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	
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	
Molybdenum	mg/L	0.000473	0.000192 J	0.000115 J	<0.000102	<0.000102	<0.005075	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.000102	<0.005075	
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000507	<0.000508	<0.000508	<0.000508	<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	

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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-42						GN-AP-MW-4						
		04/13/2021	09/21/2021	04/19/2022	08/29/2022	02/01/2023	07/18/2023	03/30/2016	05/17/2016	07/11/2016	09/14/2016	11/16/2016	02/28/2017	05/24/2017
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.193	0.201	0.375	0.507	0.655	0.364	0.352
Calcium	mg/L	11.7	15.4	11.3	13.3	11.8	12.2	53.6	50.5	56.5	58	61.8	56.8	55.5
Chloride	mg/L	4.18	3.99	3.8	3.29	3.68	3.57	12.9	12	20.3	27.3	37.1	27	28
Fluoride	mg/L	<0.06	0.0656 J	<0.06	<0.06	0.0622 J	0.098 J	0.023 J	0.065 J	0.054 J	0.014 J	<0.01	<0.032	<0.032
pH_Field	pH	6.14	6.07	6.31	5.87	6.52	6.13	7.31	7.35	7.43	7.26	7.19	7.23	7.26
Sulfate	mg/L	4.92	3.27	2.25	2.99	2.2	1.65 J	24.9	25.1	33.2	35.5	38.5	32	30
TDS	mg/L	77.3	83.3	68	76	66	74.7	339	269	305	326	338	303	312
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.000163 J	<6.8e-005	0.000294	0.000163 J	0.000232	<0.000112	0.002 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0154	0.0114	0.0148	0.0147	0.0152	0.00988	0.0219	0.0196	0.0286	0.0261	0.0291	0.0229	0.0202
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	0.000855	0.000181 J	0.000232	<6.8e-005	9.55e-005 J	7.44e-005 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	0.000307 J	0.000503 J	0.000598 J	0.000563 J	0.000619 J	0.000564 J	0.00322 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00168	<6.8e-005	0.000222	0.000118 J	0.000115 J	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.404 U	0.491 U	0.853 U	0.63 U	0.531 U	0.707 U	1 U	0.294 U	-0.021 U	0.705	0.491 U	0.367 U	--
Fluoride	mg/L	<0.06	0.0656 J	<0.06	<0.06	0.0622 J	0.098 J	0.023 J	0.065 J	0.054 J	0.014 J	<0.01	<0.032	<0.032
Lead	mg/L	<6.8e-005	<6.8e-005	8.61e-005 J	<6.8e-005	6.96e-005 J	<6.8e-005	0.00247 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.015 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000278 J	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.000176 J	0.000151 J	<0.000102	0.000169 J	<0.000102	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	0.000584 J	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	0.00015 J	<6.8e-005	7.44e-005 J	<6.8e-005	8.33e-005 J	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-4													
		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	08/30/2022	
Boron	mg/L	0.263	0.23	--	0.305	0.952	0.271	0.619	0.281	0.3	0.2	0.149	0.109	0.112	
Calcium	mg/L	51	48.9	--	56.5	73.5	56.9	69.3	55.8	57	52.2	54.4	56.8	67.4	
Chloride	mg/L	20	17	--	21	21	18.3	37.5	19.6	20.2	12.8	11	8.75	8.56	
Fluoride	mg/L	<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	<0.06	
pH_Field	pH	7.26	7.29	7.17	7.27	7.09	7.34	7.65	7.34	7.3	7.33	7.37	6.68	6.85	
Sulfate	mg/L	25	24	--	25	37	22.4	39.8	21.4	21.7	15.6	14.3	11.1	12.1	
TDS	mg/L	241	281	--	282	354	270	332	274	284	248	237	248	240	
Antimony	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	
Arsenic	mg/L	<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	0.000129 J	
Barium	mg/L	0.0186	--	0.0261	0.0231	0.0296	0.0254	0.0344	0.0185	0.0207	0.0151	0.0155	0.0153	0.0157	
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<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	<6.8e-005	
Chromium	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000909 J	0.000822 J	0.000738 J	0.00055 J	
Cobalt	mg/L	<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	7.75e-005 J	
Combined Radium 226 + 228	pCi/L	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	1.11	
Fluoride	mg/L	<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	<0.06	
Lead	mg/L	<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	<6.8e-005	
Lithium	mg/L	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	
Mercury	mg/L	<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	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000137 J	0.000264	0.000296	0.000242	
Selenium	mg/L	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	
Thallium	mg/L	<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	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-4		GN-AP-MW-5										
		02/07/2023	07/25/2023	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
Boron	mg/L	0.0979 J	0.0943 J	1.82	2.11	2.18	2.13	2.22	2.24	2.2	2.2	2.16	--	2.22
Calcium	mg/L	59.7	47.5	68.3	63.1	67.7	67.8	68.4	71.8	70.6	73.8	65.7	--	90
Chloride	mg/L	9.01	8.49	31.9	29.4	29.5	30.8	30.7	40	40	44	36	--	63
Fluoride	mg/L	<0.06	<0.06	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
pH_Field	pH	7.3	7.2	7.61	7.68	7.79	7.69	7.72	7.55	7.64	7.5	7.46	7.71	7.29
Sulfate	mg/L	11.2	11.4	146	160	173	173	177	160	160	150	170	--	130
TDS	mg/L	247	244	398	411	424	426	412	452	448	437	440	--	454
Antimony	mg/L	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000689 J	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.000184 J	0.000137 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0151	0.0166	0.0339	0.0289	0.0281	0.0301	0.0296	0.0395	0.0307	0.0367	--	0.0269	0.0441
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	0.000692 J	0.000835 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.885 U	0.632 U	1 U	0.45	0.84	0.685	0.804	0.477	--	0.737	--	0.714	0.641
Fluoride	mg/L	<0.06	<0.06	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
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	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
Mercury	mg/L	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.000994	<0.005075	0.205	0.257	0.273	0.313	0.314	0.344	0.287	0.265	--	0.352	0.135
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-5											GN-AP-MW-6	
		10/01/2018	04/02/2019	09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021	05/03/2022	08/30/2022	02/06/2023	08/01/2023	03/30/2016	05/19/2016
Boron	mg/L	2.64	1.78	2.31	0.84	2.05	0.885	0.725	0.565	0.568	0.415	0.464	2.89	2.84
Calcium	mg/L	79.6	69.8	79.9	46.8	67.8	53.3	50.6	48.2	56.6	49.2	48.4	75.7	69.7
Chloride	mg/L	49	39.9	42.8	17.5	44.2	18.8	14.6	12.8	12.6	9.05	10.1	30.8	28.7
Fluoride	mg/L	0.05 J	0.0555 J	0.0568 J	0.0647 J	<0.06	0.0874 J	0.0989 J	0.0656 J	<0.06	0.0991 J	<0.06	0.056 J	0.09 J
pH_Field	pH	7.68	7.47	7.53	7.47	7.7	7.47	7.55	7.01	7.47	7.52	7.45	7.95	7.88
Sulfate	mg/L	140	122	167	39.8	152	38.7	33.5	34	33.1	21.5	20.7	204	206
TDS	mg/L	449	390	434	228	406	256	229	239	239	219	228	430	422
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	0.00132	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.000148 J	0.000159 J	0.000154 J	0.000187 J	0.00034	0.000336	0.00105 J	<0.001
Barium	mg/L	0.0298	0.0371	0.0335	0.0231	0.0332	0.027	0.0266	0.0219	0.0241	0.0206	0.0216	0.0277	0.0282
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.000278 J	0.000361 J	0.000335 J	0.000268 J	0.000449 J	0.000416 J	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	9.62e-005 J	<6.8e-005	9.38e-005 J	0.000112 J	0.000209	0.000152 J	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.651	0.245 U	0.435 U	0.661	0.907 U	1.4	1.34	0.958 U	0.775 U	0.147 U	0.856 U	1 U	0.544
Fluoride	mg/L	0.05 J	0.0555 J	0.0568 J	0.0647 J	<0.06	0.0874 J	0.0989 J	0.0656 J	<0.06	0.0991 J	<0.06	0.056 J	0.09 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 J	9.85e-005 J	0.000102 J	0.00013 J	0.000346	0.00023	<0.001	<0.001
Lithium	mg/L	0.0482	0.0242	0.043	<0.01	0.0361	0.01 J	0.0086 J	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	0.294	0.164	0.261	0.0546	0.215	0.0562	0.0541	0.0389	0.0393	0.0287	0.0335	0.0186	0.0188
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-6												
		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
Boron	mg/L	2.41	2.06	2.08	2.25	2.11	2.5	1.34	--	2.74	2.38	2.7	2.68	2.94
Calcium	mg/L	62.7	48.3	51.8	58.4	54.8	67.9	52.5	--	77.1	61.2	80	83.9	83.1
Chloride	mg/L	24.8	21.7	25.9	29	28	40	32	--	52	50	66.4	65.3	69.7
Fluoride	mg/L	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
pH_Field	pH	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
Sulfate	mg/L	176	151	161	160	160	160	160	--	160	150	200	177	178
TDS	mg/L	391	378	354	389	375	416	394	--	437	418	445	445	455
Antimony	mg/L	<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
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
Barium	mg/L	0.0222	0.017	0.0151	0.0212	0.0162	0.02	--	0.0183	0.0271	0.0189	0.0241	0.023	0.0254
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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<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
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
Combined Radium 226 + 228	pCi/L	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
Fluoride	mg/L	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
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
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
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	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
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
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

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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-6							GN-AP-MW-7					
		07/28/2020	04/07/2021	09/27/2021	05/03/2022	08/30/2022	02/06/2023	07/26/2023	03/30/2016	05/19/2016	07/13/2016	09/13/2016	11/15/2016	03/01/2017
Boron	mg/L	2.79	2.4	2.03	1.81	1.72	1.62	1.41	1.85	1.66	1.58	0.674	1.72	1.84
Calcium	mg/L	82.5	75.5	69.2	68.8	84.6	81.5	61.8	96.4	84.5	84	58.2	87.9	96.8
Chloride	mg/L	64.2	45.5	45.3	26.9	23.9	21.2	14.9	16.9	14.9	12.6	8.09	14.3	18
Fluoride	mg/L	<0.06	0.0872 J	0.0862 J	<0.06	<0.06	<0.06	<0.06	0.034 J	0.072 J	0.054 J	0.021 J	<0.01	<0.032
pH_Field	pH	7.62	7.02	7.92	7.63	7.6	7.43	7.05	7.45	7.5	7.58	7.53	7.48	7.46
Sulfate	mg/L	189	151	156	115	123	103	93.9	215	204	155	89.8	176	200
TDS	mg/L	485	436	415	376	400	374	343	472	458	412	312	426	487
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	<0.001	9.55e-005 J	0.000138 J	0.000151 J	0.000172 J	0.000114 J	<0.000112	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.026	0.0211	0.0223	0.0232	0.0219	0.02	0.0186	0.025	0.0249	0.0279	0.0153	0.0225	0.0261
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	0.000259 J	0.000345 J	0.000304 J	<0.000203	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.292 U	0.387 U	0.314 U	0.478 U	0.856 U	0.683 U	0.843 U	--	0.116 U	0.187 U	0.0165 U	0.236 U	0.213 U
Fluoride	mg/L	<0.06	0.0872 J	0.0862 J	<0.06	<0.06	<0.06	<0.06	0.034 J	0.072 J	0.054 J	0.021 J	<0.01	<0.032
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.007105	<0.007105	0.0178 J	0.00779 J	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0185	0.0119	0.0118	0.00912	0.00761	0.00638	0.00616 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-7												
		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
Boron	mg/L	1.69	1.75	1.68	--	1.81	2.34	1.64	2.16	1.99	1.81	1.9	1.52	1.3
Calcium	mg/L	88	87.5	89.4	--	100	106	115	99.1	95.8	84.9	86.8	76.2	69
Chloride	mg/L	19	18	18	--	16	25	15.7	29.5	28	22.3	22.4	16.5	12.6
Fluoride	mg/L	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	7.51	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	200	180	210	--	170	200	186	199	207	160	164	143	107
TDS	mg/L	487	421	490	--	464	504	428	489	490	434	436	379	329
Antimony	mg/L	<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	0.000194 J	0.000189 J	0.000163 J
Barium	mg/L	0.0208	0.0244	--	0.0235	0.0252	0.0265	0.0236	0.029	0.0261	0.0248	0.0245	0.0218	0.0191
Beryllium	mg/L	<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	--	<0.0003	<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	0.000506 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	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	--	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
Fluoride	mg/L	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
Lead	mg/L	<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	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<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	0.00021	0.000261	0.000237
Selenium	mg/L	<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	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-7			GN-AP-MW-8									
		08/30/2022	01/25/2023	07/26/2023	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
Boron	mg/L	1.26	1.44	1.16	0.161	0.197	0.17	0.114	0.0853 J	0.0452 J	0.113	0.0853 J	0.0862 J	--
Calcium	mg/L	81.2	71.4	59.1	58.2	52.1	53.6	53	51.5	51.4	50.8	49.8	51.6	--
Chloride	mg/L	12	14.5	11.4	5.14	5.03	4.66	3.98	3.71	5.2	5.4	5	4.6	--
Fluoride	mg/L	<0.06	<0.06	<0.06	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
pH_Field	pH	7.57	7.61	7.35	7.2	7.39	7.43	7.38	7.35	7.3	7.33	7.33	7.31	7.36
Sulfate	mg/L	212	110	91.8	29.9	26.5	24.3	17.8	10.1	5.8	11	7.9	5	--
TDS	mg/L	319	345	312	290	312	292	276	262	290	296	273	279	--
Antimony	mg/L	<0.000508	<0.000508	<0.00071	0.00238 J	<0.0006	<0.0006	<0.0006	<0.0006	0.000718 J	<0.0006	<0.0006	--	<0.0006
Arsenic	mg/L	0.000101 J	0.000136 J	0.000154 J	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
Barium	mg/L	0.0188	0.0203	0.017	0.0277	0.0261	0.0251	0.0189	0.0186	0.0196	0.0228	0.0188	--	0.0141
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003
Chromium	mg/L	<0.000203	<0.000203	0.000234 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.00395 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Combined Radium 226 + 228	pCi/L	0.842 U	0.658 U	1.1 U	1 U	-0.317 U	-0.0583 U	0.127 U	0.406 U	-0.00408 U	--	0.22 U	--	0.0982 U
Fluoride	mg/L	<0.06	<0.06	<0.06	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
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	0.000281	0.000484	<0.005075	0.0042 J	0.00283 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-8												GN-AP-MW-9
		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	08/31/2022	01/25/2023	07/19/2023	04/04/2016
Boron	mg/L	0.0649 J	0.03 J	0.0345 J	0.0439 J	<0.03	<0.03	0.0327 J	<0.03	0.0313 J	<0.03	<0.03	<0.03	<0.02
Calcium	mg/L	52.2	50.8	50.5	54.5	54.7	49.4	51.1	51.4	52.4	64	53.1	60.1	32.3
Chloride	mg/L	3.6	3.9	3.9	3.96	3.81	3.77	3.9	3.8	3.33	2.97	3.58	3.51	5.89
Fluoride	mg/L	0.09 J	0.12	0.0956 J	0.0971 J	0.0898 J	0.0742 J	0.114	0.132	0.111 J	<0.06	0.0614 J	0.0855 J	0.109 J
pH_Field	pH	7.28	7.33	7.4	7.55	7.39	7.39	7.23	7.3	7.44	7.44	7.45	7.24	7.32
Sulfate	mg/L	2.9 J	<1.4	1.8	4.62	3.89	3.25	3.29	1.95	3.02	1.14 J	1.96 J	3.93	13.5
TDS	mg/L	250	246	268	257	252	253	256	256	237	246	227	243	182
Antimony	mg/L	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006
Arsenic	mg/L	0.00219 J	0.00188 J	0.00177 J	0.00112 J	<0.001	0.00152 J	0.00108	0.0012	0.00107	0.00113	0.000553	0.000592	0.00191 J
Barium	mg/L	0.0179	0.0168	0.0209	0.0202	0.0168	0.0206	0.018	0.0179	0.0188	0.018	0.0134	0.0123	0.0789
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000333 J	0.000313 J	0.000311 J	0.000367 J	<0.000203	0.000259 J	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	9.45e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002
Combined Radium 226 + 228	pCi/L	-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	0.41 U	0.309 U	0.661 U	1 U
Fluoride	mg/L	0.09 J	0.12	0.0956 J	0.0971 J	0.0898 J	0.0742 J	0.114	0.132	0.111 J	<0.06	0.0614 J	0.0855 J	0.109 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000895	0.000718	0.00107	0.000733	0.000577	<0.005075	0.00344 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-9												
		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
Boron	mg/L	<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
Calcium	mg/L	31.3	31.6	31.2	31.5	29.7	30.4	30.8	30.5	--	32.9	32.4	32.3	32.7
Chloride	mg/L	5.2	5.71	5.88	6.04	8.6	9.3	7.8	7.6	--	7.5	8.9	8.42	8.59
Fluoride	mg/L	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
pH_Field	pH	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
Sulfate	mg/L	1.78	0.915 J	<0.3	0.96 J	5.5	18	13	14	--	14	11	14.3	13.9
TDS	mg/L	184	176	170	180	203	199	178	205	--	193	198	205	207
Antimony	mg/L	<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
Arsenic	mg/L	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
Barium	mg/L	0.0733	0.102	0.0793	0.0882	0.111	0.0914	0.0948	--	0.0836	0.0979	0.118	0.105	0.118
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
Cadmium	mg/L	<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
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
Combined Radium 226 + 228	pCi/L	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
Fluoride	mg/L	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
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
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
Mercury	mg/L	<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	0.00306 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
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
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

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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-9								GN-AP-MW-10				
		02/17/2020	07/29/2020	04/05/2021	09/21/2021	05/02/2022	08/31/2022	01/25/2023	07/18/2023	03/30/2016	05/17/2016	07/13/2016	09/13/2016	11/15/2016
Boron	mg/L	<0.03	<0.03	0.0314 J	<0.03	<0.03	<0.03	<0.03	<0.03	0.0291 J	0.0466 J	0.0305 J	<0.02	<0.02
Calcium	mg/L	33.2	32.4	31.7	31.5	30.9	29.9	29.1	30.2	38.2	33.9	36.7	38.1	38
Chloride	mg/L	8.74	8.93	9.25	9.17	8.5	8.1	9.4	9.03	4.59	3.94	3.32	2.91	2.75
Fluoride	mg/L	0.15	0.116	0.15	0.181	0.122 J	0.089 J	0.101 J	0.134	0.052 J	0.088 J	0.06 J	0.019 J	<0.01
pH_Field	pH	7.75	7.66	7.8	7.72	7.7	7.74	7.75	7.64	7.45	7.68	7.71	7.53	7.53
Sulfate	mg/L	14.7	14.7	15.1	18.4	17.9	18.7	18.6	20.8	9.91	7.27	4.11	2.86	2.16
TDS	mg/L	211	215	211	205	209	210	207	219	195	189	179	168	180
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00246 J	0.00222 J	0.00234	0.00308	0.00225	0.00274	0.00295	0.00292	0.00105 J	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.109	0.105	0.104	0.114	0.114	0.114	0.111	0.107	0.0139	0.0188	0.0139	0.0121	0.0132
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	0.000295 J	0.000323 J	0.000292 J	0.000286 J	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.38 U	0.28 U	0.843 U	1.05 U	0.891	0.741 U	0.441 U	1.2	1 U	0.364 U	0.347 U	0.567	0.305 U
Fluoride	mg/L	0.15	0.116	0.15	0.181	0.122 J	0.089 J	0.101 J	0.134	0.052 J	0.088 J	0.06 J	0.019 J	<0.01
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	0.000821	0.00102	0.0012	0.00128	0.00114	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-10												
		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
Boron	mg/L	<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
Calcium	mg/L	39.4	37.4	37.4	36.4	--	38.7	39.7	39.9	39.1	39.7	38.5	40	38.4
Chloride	mg/L	3.2	3.7	3.7	3.1	--	3.3	2.6	2.64	2.54	2.61	2.53	3.88	3.39
Fluoride	mg/L	<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
pH_Field	pH	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
Sulfate	mg/L	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
TDS	mg/L	180	178	165	185	--	181	161	166	168	170	175	184	174
Antimony	mg/L	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
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000311	0.000239
Barium	mg/L	0.0148	0.0116	0.0113	--	0.0117	0.0145	0.0124	0.0129	0.0135	0.0127	0.0141	0.0142	0.0129
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<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
Chromium	mg/L	<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
Cobalt	mg/L	<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
Combined Radium 226 + 228	pCi/L	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
Fluoride	mg/L	<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
Lead	mg/L	<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
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<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	0.000248	0.000183 J
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<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	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-10				GN-AP-MW-11									
		05/02/2022	08/31/2022	02/06/2023	07/18/2023	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	
Boron	mg/L	0.0352 J	<0.03	<0.03	<0.03	0.112	0.118	0.125	0.108	0.126	0.12	0.116	0.12	0.124	
Calcium	mg/L	37.8	36.4	45.4	38	36.4	34.7	36.4	35.6	36.2	35.4	34.4	34.8	34.6	
Chloride	mg/L	3.2	2.43	2.95	2.72	6.36	5.93	5.93	5.92	5.95	6.7	7.1	6.2	6.7	
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.026 J	0.068 J	0.049 J	0.018 J	<0.01	<0.032	<0.032	<0.032	<0.032	
pH_Field	pH	7.12	7.25	7.6	7.05	7.63	7.64	7.84	7.69	7.7	7.79	7.72	7.73	7.67	
Sulfate	mg/L	4.75	3.78	3.9	4.01	32.2	30.8	32.4	30.9	32.1	32	32	33	34	
TDS	mg/L	173	174	183	166	184	186	192	187	185	198	185	189	135	
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000823 J	<0.0006	<0.0006	--	
Arsenic	mg/L	0.000236	0.000173 J	0.000194 J	0.0002 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	
Barium	mg/L	0.0132	0.0138	0.013	0.0133	0.00993 J	0.011	0.012	0.01	0.00973 J	0.00989 J	0.00911 J	0.00908 J	--	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	
Chromium	mg/L	0.000258 J	0.000378 J	0.0003 J	0.000335 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Combined Radium 226 + 228	pCi/L	0.349 U	0.73 U	0.256 U	0.312 U	1 U	0.224 U	0.177 U	0.216 U	0.318 U	0.551	--	0.418 U	--	
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.026 J	0.068 J	0.049 J	0.018 J	<0.01	<0.032	<0.032	<0.032	<0.032	
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	
Molybdenum	mg/L	0.000212	0.000158 J	0.000249	<0.0005075	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Selenium	mg/L	0.000548 J	0.000532 J	<0.000508	0.000557 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-11												
		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	09/06/2022	01/25/2023	07/31/2023
Boron	mg/L	--	0.163	0.206	0.216	0.207	0.221	0.205	0.271	0.283	0.324	0.326	0.327	0.371
Calcium	mg/L	--	37.4	40.8	44.1	40.2	41	39	40.1	40.9	43.4	46.7	43	44.6
Chloride	mg/L	--	6.2	6.9	6.35	6.49	6.66	6.75	7.09	7.14	6.86	7.27	7.78	7.77
Fluoride	mg/L	<0.032	<0.032	0.04 J	<0.05	<0.05	0.0546 J	<0.06	0.0634 J	0.0847 J	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	7.82	7.71	7.71	7.75	7.71	7.74	7.76	7.63	7.64	7.16	7.67	7.81	7.73
Sulfate	mg/L	--	33	37	44.2	49.2	45.2	45.3	50.1	55.4	58.3	61.9	57.8	69
TDS	mg/L	--	174	208	200	207	209	216	217	217	234	226	234	242
Antimony	mg/L	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.00275	0.00322
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000237	0.00017 J	0.000177 J	0.000164 J	0.000212	0.000149 J
Barium	mg/L	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	0.00954	0.00885	0.00984	0.00987
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<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	0.000743 J	0.000923 J	0.000651 J	0.000929 J	0.00101 J	0.000843 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	7.5e-005 J	<6.8e-005
Combined Radium 226 + 228	pCi/L	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	0.101 U	0.0749 U	0.339 U
Fluoride	mg/L	<0.032	<0.032	0.04 J	<0.05	<0.05	0.0546 J	<0.06	0.0634 J	0.0847 J	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000107 J	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<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	<0.002	<0.002	<0.002	<0.002	<0.002	0.00033	0.000264	0.000376	0.000269	0.000291	<0.005075
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

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	
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	
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	
Chloride	mg/L	21.4	19.6	19.6	19.7	19.7	22	22	21	21	--	20	21	19.7	
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	
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	
Sulfate	mg/L	85	83.8	86.2	91.8	91.2	86	92	88	100	--	91	76	102	
TDS	mg/L	353	343	352	346	322	353	234	372	372	--	365	372	372	
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	
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	
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	
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	
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	
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	
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	
Combined Radium 226 + 228	pCi/L	1 U	0.678	0.707	1.04	0.586	1.09	--	1.05	--	1.22	0.769	1.5	0.669	
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	
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	
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	
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	
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	
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	
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	

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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-12									GN-AP-MW-13			
		09/16/2019	02/18/2020	07/27/2020	04/05/2021	09/22/2021	05/03/2022	09/06/2022	02/06/2023	07/18/2023	03/30/2016	05/18/2016	07/14/2016	09/12/2016
Boron	mg/L	0.423	0.433	0.444	0.427	0.447	0.465	0.459	0.463	0.483	<0.02	<0.02	<0.02	0.0762 J
Calcium	mg/L	69.5	73.1	65.7	64.8	67.3	65.3	76.8	76.3	69.3	46.6	46.1	45.6	44.1
Chloride	mg/L	19.8	19.6	19.8	19.7	19.7	18.9	18.4	19.7	18.7	4.69	4.35	4.33	4.4
Fluoride	mg/L	0.0538 J	0.0571 J	<0.06	0.0733 J	0.0887 J	<0.06	<0.06	0.0753 J	<0.06	0.042 J	0.08 J	0.06 J	0.028 J
pH_Field	pH	7.44	7.42	7.47	6.88	7.48	7.39	7.39	7.45	7.26	7.27	7.37	7.51	7.39
Sulfate	mg/L	108	110	108	96.8	131	97	104	107	113	<0.3	0.492 J	0.38 J	<0.3
TDS	mg/L	377	378	378	372	375	371	376	391	372	202	207	203	205
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00538	0.00269 J	0.0041 J	0.00276	0.00529	0.00223	0.0033	0.00233	0.00299	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0819	0.0726	0.077	0.0751	0.0815	0.0752	0.0776	0.0741	0.0727	0.0337	0.038	0.0338	0.0331
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	0.000278 J	0.000394 J	<0.000203	0.000347 J	0.000279 J	<0.000203	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	0.000113 J	0.000156 J	0.000219	0.00019 J	0.000225	0.000209	<0.002	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	1.04	1.34	1.85	1.2	1.4	1.09 U	0.847 U	1.06	0.73 U	1 U	0.539	0.652	0.325 U
Fluoride	mg/L	0.0538 J	0.0571 J	<0.06	0.0733 J	0.0887 J	<0.06	<0.06	0.0753 J	<0.06	0.042 J	0.08 J	0.06 J	0.028 J
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	0.000366	0.000296	0.000331	0.000272	0.000316	<0.005075	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-13													
		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	
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	46	45	44.3	44.7	43.5	--	45.8	46.8	46.9	48.3	46.7	45.5	43.8	
Chloride	mg/L	4.76	6.1	5.4	5.2	5.6	--	4.6	5.1	4.85	4.83	5.02	5.2	5.06	
Fluoride	mg/L	<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	
pH_Field	pH	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	
Sulfate	mg/L	<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	
TDS	mg/L	197	221	204	218	217	--	201	208	201	204	206	202	193	
Antimony	mg/L	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	
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	0.000661	
Barium	mg/L	0.0353	0.0388	0.0344	0.0302	--	0.0321	0.0361	0.0336	0.0363	0.0396	0.0381	0.0395	0.0389	
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	<0.000406	
Cadmium	mg/L	<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	
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	0.000353 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	0.000142 J	
Combined Radium 226 + 228	pCi/L	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	
Fluoride	mg/L	<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	
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	0.000106 J	
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	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<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	0.000329	
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	<0.000507	
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	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-13					GN-AP-MW-14								
		09/22/2021	05/02/2022	09/07/2022	02/01/2023	07/19/2023	03/28/2016	05/17/2016	07/11/2016	09/13/2016	11/15/2016	02/27/2017	05/24/2017	06/21/2017	
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Calcium	mg/L	46.6	44.1	52.7	44.8	45.6	124	74.6	68.9	80.3	102	77.9	72.9	80	
Chloride	mg/L	4.8	4.32	4.55	4.54	4.19	2.11	2.38	2.42	2.34	2.55	5.8	5.9	3.6	
Fluoride	mg/L	0.117	<0.06	<0.06	0.0758 J	0.0611 J	0.084 J	0.098 J	0.086 J	0.061 J	<0.01	0.12	0.12	0.1	
pH_Field	pH	7.59	7.46	7.52	7.55	7.36	7.34	7.22	7.32	7.35	7.32	7.38	7.41	7.26	
Sulfate	mg/L	0.521 J	<0.6	0.641 J	0.758 J	3.14	66.6	63.9	57.6	82.8	118	62 J	56	75	
TDS	mg/L	210	201	192	181	199	308	314	319	354	452	339	316	376	
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	0.000985 J	<0.0006	<0.0006	<0.0006	<0.0006	0.00076 J	<0.0006	<0.0006	
Arsenic	mg/L	0.000523	0.000428	0.000532	0.00063	0.000507	0.0048 J	0.0016 J	0.00112 J	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	0.0444	0.0414	0.0422	0.0378	0.0415	0.0952	0.0437	0.0496	0.0493	0.0634	0.0593	0.0476	0.0481	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	0.00119 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00133	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Chromium	mg/L	0.000318 J	0.000265 J	0.000286 J	<0.000203	0.000228 J	0.00577 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Cobalt	mg/L	<6.8e-005	0.000136 J	9.41e-005 J	0.000152 J	0.000144 J	0.00969 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Combined Radium 226 + 228	pCi/L	0.834 U	0.412 U	0.895 U	0.682 U	1.36	1 U	0.119 U	0.51 U	0.413 U	0.707	0.479 U	--	0.529	
Fluoride	mg/L	0.117	<0.06	<0.06	0.0758 J	0.0611 J	0.084 J	0.098 J	0.086 J	0.061 J	<0.01	0.12	0.12	0.1	
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.0202	0.00114 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0107 J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	
Molybdenum	mg/L	0.000312	0.000302	0.000315	0.000341	<0.005075	<0.002	<0.002	0.00361 J	<0.002	<0.002	<0.002	<0.002	<0.002	
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-14												
		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	09/06/2022	01/31/2023
Boron	mg/L	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	72.1	--	59.6	123	63.1	74.9	69.9	88.6	78.2	80	85.3	102	66.6
Chloride	mg/L	4.9	--	6.5	3.5	5.72	4.16	4.9	3.1	3.37	3.5	4.1	5.29	5.23
Fluoride	mg/L	0.12	0.14	0.13	0.1	0.106	0.116	0.122	0.0954 J	0.124	0.149	0.0652 J	0.0891 J	0.106 J
pH_Field	pH	7.33	7.5	7.48	7.05	7.43	7.3	7.52	7.44	7.51	7.5	7.07	7.35	7.62
Sulfate	mg/L	67	--	53	160	75.2	131	110	97.9	77.5	116	118	148	104
TDS	mg/L	340	--	304	544	336	439	363	399	342	394	417	462	436
Antimony	mg/L	--	<0.0006	<0.0006	<0.0008	0.000939 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	--	<0.001	0.00113 J	<0.001	<0.001	0.00108 J	<0.001	<0.001	0.000441	0.000574	0.000589	0.000568	0.000621
Barium	mg/L	--	0.0505	0.0574	0.0776	0.0619	0.0745	0.0653	0.0686	0.0659	0.0739	0.0763	0.0835	0.067
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<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	0.000234 J	0.000302 J	0.00025 J	0.000289 J	0.000209 J
Cobalt	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	--	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	1.92	0.93
Fluoride	mg/L	0.12	0.14	0.13	0.1	0.106	0.116	0.122	0.0954 J	0.124	0.149	0.0652 J	0.0891 J	0.106 J
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<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	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	<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	<0.002	<0.002	<0.002	<0.002	<0.002	0.000298	0.000522	0.000515	0.000701	0.000984
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-14	GN-AP-MW-15R											
		07/26/2023	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
Boron	mg/L	<0.03	0.829	0.835	0.838	0.894	0.897	0.897	0.892	0.91	0.906	--	0.991	4.34
Calcium	mg/L	53.8	38.1	37.3	36.5	36.8	38	36.8	36.9	36.9	39.5	--	43.4	163
Chloride	mg/L	4.43	23	23.3	23.6	23.8	24.1	27	28	27	27	--	32	120
Fluoride	mg/L	0.104 J	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
pH_Field	pH	7.36	7.58	7.56	7.52	7.57	7.62	7.52	7.52	7.46	7.57	7.64	7.51	7.33
Sulfate	mg/L	91.9	133	134	130	132	143	130	120	120	140	--	150	260
TDS	mg/L	283	359	349	340	324	348	347	348	343	332	--	369	762
Antimony	mg/L	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000947 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008
Arsenic	mg/L	0.000657	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	0.0015 J
Barium	mg/L	0.0572	0.0302	0.0267	0.0247	0.0273	0.026	0.0301	0.0274	0.0292	--	0.0316	0.0368	0.0818
Beryllium	mg/L	<0.000406	<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	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.000203	<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	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	1.51	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
Fluoride	mg/L	0.104 J	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
Lead	mg/L	6.89e-005 J	<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	<0.007105	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
Mercury	mg/L	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.005075	0.0542	0.0577	0.0627	0.0712	0.0788	0.121	0.117	0.121	--	0.138	0.141	0.214
Selenium	mg/L	<0.000508	<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	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-15R											GN-AP-MW-16		
		04/03/2019	05/07/2019	09/18/2019	02/25/2020	07/28/2020	04/06/2021	09/28/2021	05/02/2022	08/31/2022	01/24/2023	08/01/2023	03/29/2016	05/17/2016	
Boron	mg/L	4.18	4.13	3.47	3.13	2.7	2.54	2.34	2.36	2.22	2.19	2.1	1.32	1.35	
Calcium	mg/L	209	175	139	120	102	98.6	92.5	93.2	112	98.3	95.2	43.2	41.4	
Chloride	mg/L	156	180	142	138	110	105	98.3	79.9	82	91.2	86.1	10.8	10	
Fluoride	mg/L	0.104	0.0937 J	0.094 J	0.0995 J	0.0738 J	0.116	0.09 J	0.08 J	0.0842 J	0.0768 J	0.0627 J	0.118 J	0.151 J	
pH_Field	pH	7.7	7.57	7.5	7.64	7.5	7.64	7.63	7.49	7.6	7.6	7.48	8.15	8.18	
Sulfate	mg/L	339	351	283	326	239	230	245	224	225	219	233	146	140	
TDS	mg/L	810	810	704	674	606	590	566	574	582	562	580	277	261	
Antimony	mg/L	0.00113 J	0.000998 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	0.000838 J	<0.0006
Arsenic	mg/L	0.00207 J	0.0016 J	<0.001	0.00129 J	0.00101 J	0.000767	0.000835	0.000582	0.000483	0.000708	0.000497	0.00385 J	0.00337 J	
Barium	mg/L	0.134	0.0774	0.0799	0.0693	0.0635	0.0541	0.0615	0.0561	0.0551	0.056	0.0525	0.031	0.0313	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.000777 J	0.000309 J	0.000275 J	0.000323 J	<0.000203	0.000237 J	<0.002	<0.002	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.000352	0.0004	0.000275	0.000193 J	0.000344	0.000213	<0.002	<0.002	
Combined Radium 226 + 228	pCi/L	1.16	1.36	0.94	0.669	2.35	1.2	1.04 U	1.14 U	0.868 U	0.984	1.13 U	2.84251 U	3.09	
Fluoride	mg/L	0.104	0.0937 J	0.094 J	0.0995 J	0.0738 J	0.116	0.09 J	0.08 J	0.0842 J	0.0768 J	0.0627 J	0.118 J	0.151 J	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	
Lithium	mg/L	0.149	0.164	0.186	0.0848	0.0559	0.0423	0.0326	0.0278	0.026	0.0258	0.0265	0.0774	0.0738	
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	<0.00025	<0.00025	
Molybdenum	mg/L	0.433	0.292	0.307	0.209	0.167	0.156	0.137	0.144	0.138	0.143	0.129	0.288	0.269	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	

Notes:

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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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-16												
		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
Boron	mg/L	1.32	1.31	1.34	1.28	1.24	1.26	1.24	--	1.34	1.29	1.32	1.4	1.39
Calcium	mg/L	41.9	39.6	41	41.8	39.8	40.2	41.3	--	42.3	41.5	45.8	61.3	50
Chloride	mg/L	10.1	10.4	10.4	12	12	11	12	--	12	14	15.9	20.4	17.7
Fluoride	mg/L	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
pH_Field	pH	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
Sulfate	mg/L	135	129	131	130	130	110	140	--	130	80	150	147	161
TDS	mg/L	255	264	249	251	257	258	263	--	247	252	275	293	284
Antimony	mg/L	<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
Arsenic	mg/L	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
Barium	mg/L	0.0336	0.0286	0.0296	0.0315	0.0275	0.0279	--	0.0273	0.0307	0.0295	0.0327	0.0393	0.0353
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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<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
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
Combined Radium 226 + 228	pCi/L	2.65	3.22	4.18	3.61	--	3	--	3.76	3.32	2.91	3.43	3.55	2.99
Fluoride	mg/L	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
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
Lithium	mg/L	0.0788	0.0748	0.0851	0.0766	0.0722	0.0693	--	0.0781	0.0752	0.076	0.0808	0.0926	0.0951
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.305	0.306	0.305	0.368	0.275	0.26	--	0.316	0.275	0.267	0.317	0.32	0.343
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
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

Notes:

1. mg/L - Milligrams per Liter
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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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-16							GN-AP-MW-17					
		07/28/2020	04/05/2021	09/28/2021	04/27/2022	08/30/2022	01/30/2023	07/19/2023	03/29/2016	05/17/2016	07/14/2016	09/13/2016	11/16/2016	02/28/2017
Boron	mg/L	1.33	1.43	1.42	1.47	1.42	1.45	1.51	3.04	3.1	2.96	2.94	2.96	2.92
Calcium	mg/L	48.1	57.6	65.3	74.9	111	131	177	77.4	70.3	73	70.7	51.7	73.1
Chloride	mg/L	17.4	19.8	28.9	35.8	56.6	122	191	14.7	13.8	13.8	14.1	14.2	17
Fluoride	mg/L	0.124	0.159	0.125	0.0766 J	0.114 J	0.117 J	0.107 J	0.221 J	0.241 J	0.213 J	0.168 J	0.103 J	0.22
pH_Field	pH	8.02	7.76	8.2	8.17	7.84	8.04	7.84	9.66	9.56	9.63	9.57	9.59	9.56
Sulfate	mg/L	143	172	188	191	190	186	211	254	251	246	238	234	240
TDS	mg/L	284	333	354	369	425	528	702	451	432	434	432	412	434
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.000516 J	<0.00071	0.00107 J	0.000869 J	0.000882 J	0.000807 J	0.000801 J	0.00129 J
Arsenic	mg/L	0.00535	0.00452	0.00593	0.00552	0.00556	0.00588	0.00496	0.0125	0.0112	0.013	0.0124	0.0121	0.0127
Barium	mg/L	0.0355	0.0421	0.051	0.0514	0.0678	0.0894	0.109	0.0849	0.0891	0.0965	0.0811	0.0833	0.0897
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	9.99e-005 J	<6.8e-005	7.73e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	0.000357 J	0.000216 J	0.000277 J	0.000203 J	0.00027 J	0.000351 J
Chromium	mg/L	<0.002	0.000319 J	0.000315 J	0.00021 J	<0.000203	0.000272 J	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	0.000679	0.000946	0.000704	0.000978	0.00119	0.00152	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	3.49	4.28	4.67	4.33	4.95	6.1	6.83	1 U	0.792	0.864	1.01	1.27	0.347 U
Fluoride	mg/L	0.124	0.159	0.125	0.0766 J	0.114 J	0.117 J	0.107 J	0.221 J	0.241 J	0.213 J	0.168 J	0.103 J	0.22
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0903	0.111	0.126	0.127	0.143	0.198	0.22	0.646	0.613	0.616	0.592	0.603	0.562
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.328	0.514	0.538	0.519	0.529	0.556	0.619	2.19	2.24	2.1	2.3	1.92	2.6
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000105 J	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-17												
		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
Boron	mg/L	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	70.6	67.7	72.8	--	80.8	102	116	131	102	103	159	177	240
Chloride	mg/L	17	16	17	--	21	30	38	43.2	27.7	26.5	52.8	94.3	186
Fluoride	mg/L	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	9.71	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	230	200	250	--	250	280	346	322	351	309	421	425	444
TDS	mg/L	425	424	428	--	455	492	536	592	561	566	772	842	967
Antimony	mg/L	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	0.0121	0.0129	--	0.0138	0.0125	0.0118	0.0106	0.0109	0.011	0.00947	0.00999	0.00941	0.0084
Barium	mg/L	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	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	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	0.000475
Chromium	mg/L	<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	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	--	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
Fluoride	mg/L	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
Lead	mg/L	<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	0.561	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	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	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	<0.000507	<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	<6.8e-005	<6.8e-005	7.85e-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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-17			GN-AP-MW-18									
		08/30/2022	01/30/2023	07/25/2023	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
Boron	mg/L	3.29	3.49	3.56	1.33	1.37	1.31	1.28	1.31	1.29	1.17	1.24	1.19	--
Calcium	mg/L	326	374	379	104	110	109	101	105	108	102	107	105	--
Chloride	mg/L	272	436	532	11.1	10.3	10.3	10.3	10.3	12	13	12	12	--
Fluoride	mg/L	0.124 J	0.123 J	0.102 J	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
pH_Field	pH	9.18	9.27	9.16	6.95	6.87	6.85	6.9	6.89	6.83	6.87	6.89	6.89	6.95
Sulfate	mg/L	431	444	493	163	159	154	143	151	140	150	140	150	--
TDS	mg/L	1420	1540	2010	560	540	546	542	514	536	536	598	550	--
Antimony	mg/L	<0.000508	0.00191	0.00137	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000728 J	<0.0006	<0.0006	--	<0.0006
Arsenic	mg/L	0.00745	0.00753	0.00747	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
Barium	mg/L	0.135	0.123	0.119	0.0435	0.0451	0.0428	0.0415	0.0422	0.0466	0.0382	0.0408	--	0.0394
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	0.000271	0.000261	0.000347	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003
Chromium	mg/L	<0.000203	<0.000203	0.000225 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Combined Radium 226 + 228	pCi/L	1.14	0.926 U	2.19	1 U	1.2	1.19	1.31	1.29	0.727	--	0.98	--	1.79
Fluoride	mg/L	0.124 J	0.123 J	0.102 J	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
Lead	mg/L	<6.8e-005	7.01e-005 J	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	1.06	1.33	1.28	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
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	2.84	3.06	3.03	0.017	0.0167	0.0161	0.0183	0.0171	0.0209	0.0168	0.0173	--	0.0211
Selenium	mg/L	<0.000508	0.00059 J	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	9.07e-005 J	0.000116 J	0.000105 J	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

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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-18												GN-AP-MW-19
		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	08/30/2022	01/24/2023	07/25/2023	03/28/2016
Boron	mg/L	1.3	1.26	1.27	1.47	1.38	1.37	1.44	1.58	1.65	1.71	1.68	1.65	0.0538 J
Calcium	mg/L	113	123	139	126	119	117	121	122	149	155	138	128	46
Chloride	mg/L	12	13	12.1	12.2	12.2	12.3	12.4	13.2	13.5	13	14.1	13.3	9.86
Fluoride	mg/L	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	<0.06	<0.06	0.0686 J	0.083 J
pH_Field	pH	6.89	6.89	6.9	6.86	6.89	6.54	6.67	6.48	6.77	6.65	6.84	6.9	7.24
Sulfate	mg/L	140	140	168	173	210	180	181	205	216	203	212	216	16.8
TDS	mg/L	540	514	560	592	578	594	596	608	596	614	632	620	213
Antimony	mg/L	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006
Arsenic	mg/L	0.00259 J	0.00288 J	0.0067	0.00308 J	0.00265 J	0.00331 J	0.00272	0.00416	0.00281	0.00265	0.00255	0.00284	0.00463 J
Barium	mg/L	0.0434	0.0424	0.045	0.0524	0.0474	0.05	0.0483	0.0525	0.0515	0.054	0.055	0.0499	0.037
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000334 J	0.000291 J	0.000242 J	<0.000203	<0.000203	0.000351 J	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000633	0.00132	0.0016	0.00194	0.00238	0.00154	<0.002
Combined Radium 226 + 228	pCi/L	0.981	1.54	1.49	1.25	1.13	2.35	1.68	1.94	1.34	1.46	1.28	2.75	1 U
Fluoride	mg/L	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	<0.06	<0.06	0.0686 J	0.083 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001
Lithium	mg/L	0.0358 J	0.0386	0.0393	0.0492	0.0465	0.0507	0.05	0.0506	0.0464	0.0456	0.0457	0.0463	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	0.0186	0.0192	0.0214	0.0243	0.0228	0.0244	0.0307	0.0592	0.0598	0.0703	0.071	0.0724	0.0157
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	0.000418 J	0.000371 J	0.00034 J	0.000479 J	0.000426 J	0.000456 J	0.000389	0.000358	0.000439	0.00049	0.000472	0.000436	<0.0002

Notes:

1. mg/L - Milligrams per Liter
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ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-19												
		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
Boron	mg/L	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
Calcium	mg/L	42.9	43.1	44.1	42.7	43.1	41.9	41.8	43	--	43.2	43.8	45.6	45.6
Chloride	mg/L	9.4	10.3	9.68	10.2	12	12	12	12	--	11	<1.4	11.9	11.6
Fluoride	mg/L	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
pH_Field	pH	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
Sulfate	mg/L	14.9	24.2	16.8	21.7	23	26	20	22	--	24	24	24.4	23.6
TDS	mg/L	206	225	212	224	223	219	164	232	--	218	212	225	222
Antimony	mg/L	<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
Arsenic	mg/L	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
Barium	mg/L	0.0492	0.0555	0.0421	0.042	0.0407	0.0271	0.024	--	0.0195	0.0208	0.0186	0.0188	0.0211
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
Cadmium	mg/L	<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
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
Combined Radium 226 + 228	pCi/L	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
Fluoride	mg/L	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
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
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
Mercury	mg/L	<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	0.0125	0.0138	0.0127	0.0118	0.0145	0.0122	0.0123	--	0.0127	0.0111	0.0113	0.0132	0.0128
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
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

Notes:

1. mg/L - Milligrams per Liter
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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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-19								GN-AP-MW-20				
		02/18/2020	07/27/2020	04/05/2021	09/22/2021	04/19/2022	08/30/2022	01/25/2023	07/18/2023	03/29/2016	05/18/2016	07/13/2016	09/14/2016	11/14/2016
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	3.48	3.61	3.7	3.53	3.51
Calcium	mg/L	45.5	42.6	42.6	42.1	45.6	45.8	43	52.9	163	160	158	156	156
Chloride	mg/L	11.4	12.1	12.6	12.8	13.7	13	14.1	14.1	17.2	16.2	16.2	16.2	16.1
Fluoride	mg/L	0.0557 J	<0.06	0.088 J	0.0965 J	<0.06	<0.06	<0.06	<0.06	0.035 J	0.076 J	0.053 J	0.022 J	<0.01
pH_Field	pH	7.64	7.56	7.66	7.86	7.63	7.1	7.69	7.61	7.96	7.88	7.92	7.85	7.84
Sulfate	mg/L	25.6	23.7	23.1	25.9	27.6	27.5	26.6	28.2	556	559	560	553	551
TDS	mg/L	215	223	220	218	225	238	225	232	862	882	874	908	804
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.00196 J	0.00221 J	0.00228	0.00221	0.00215	0.00258	0.00165	0.00223	0.00424 J	0.00409 J	0.00512	0.00411 J	0.00365 J
Barium	mg/L	0.0163	0.0165	0.0149	0.0162	0.0141	0.0146	0.0134	0.0131	0.0691	0.074	0.0784	0.0658	0.0634
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	0.000316 J	0.000237 J	0.000298 J	<0.000203	<0.000203	0.0012	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	9.07e-005 J	0.00011 J	0.000168 J	0.000137 J	0.000132 J	0.00037	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.779	1.68	0.959 U	0.368 U	0.66 U	1	0.626 U	1.32	17.244	19.9	18.1	20.3	17.2
Fluoride	mg/L	0.0557 J	<0.06	0.088 J	0.0965 J	<0.06	<0.06	<0.06	<0.06	0.035 J	0.076 J	0.053 J	0.022 J	<0.01
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	0.000191 J	<6.8e-005	<6.8e-005	0.000391	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.118	0.12	0.135	0.115	0.114
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0129	0.0133	0.0137	0.0136	0.0146	0.0144	0.0154	0.014	0.637	0.657	0.774	0.725	0.63
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-20												
		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
Boron	mg/L	3.44	3.31	3.48	3.4	--	3.74	3.73	3.77	4.12	4.14	3.86	4.29	4.32
Calcium	mg/L	150	150	153	159	--	192	184	206	172	178	161	161	170
Chloride	mg/L	18	18	18	18	--	17	19	17.9	18.7	19	19.3	19.8	20
Fluoride	mg/L	<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
pH_Field	pH	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
Sulfate	mg/L	560	530	510	540	--	520	590	577	526	674	568	547	583
TDS	mg/L	930	886	924	872	--	880	866	910	908	930	934	926	922
Antimony	mg/L	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
Arsenic	mg/L	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
Barium	mg/L	0.0676	0.0551	0.0604	--	0.0562	0.0634	0.061	0.0599	0.0651	0.0595	0.0612	0.0589	0.0603
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<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
Chromium	mg/L	<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
Cobalt	mg/L	<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
Combined Radium 226 + 228	pCi/L	13.9	--	15.6	--	14.7	11.6	15.7	13.8	15.7	12.9	15.6	15.6	15.4
Fluoride	mg/L	<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
Lead	mg/L	<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
Lithium	mg/L	0.0991	0.103	0.104	--	0.112	0.106	0.11	0.115	0.131	0.137	0.125	0.139	0.137
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.767	0.623	0.667	--	0.803	0.689	0.775	0.803	0.837	0.813	0.784	0.811	0.845
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<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	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-20				GN-AP-MW-21									
		04/20/2022	08/30/2022	01/24/2023	07/25/2023	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	
Boron	mg/L	4.49	4.33	4.55	4.79	1.63	1.32	1.85	2.12	2.01	1.47	1.41	1.38	2.04	
Calcium	mg/L	182	214	189	165	66.6	52.8	68	75.2	80.9	58	56.3	56.8	54.5	
Chloride	mg/L	19.9	19	19.7	18.9	34.8	25.1	34.1	40.1	38.5	23	21	22	21	
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.118 J	0.117 J	0.068 J	<0.01	<0.01	0.04 J	0.04 J	0.04 J	<0.032	
pH_Field	pH	7.83	7.73	7.98	7.91	7.83	7.86	7.75	7.66	7.57	7.53	7.78	7.82	7.73	
Sulfate	mg/L	575	538	554	614	159	107	155	172	163	140	140	130	150	
TDS	mg/L	946	930	924	950	468	393	428	452	418	346	386	363	364	
Antimony	mg/L	<0.000508	<0.000508	0.00188	0.000756 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	
Arsenic	mg/L	0.00405	0.00359	0.00399	0.00424	0.00666	0.0088	0.00489 J	0.00395 J	0.00343 J	0.00348 J	0.00294 J	0.00286 J	--	
Barium	mg/L	0.0554	0.0537	0.0532	0.0543	0.0425	0.0214	0.0628	0.06	0.0348	0.0395	0.0279	0.0255	--	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	
Cadmium	mg/L	0.000134 J	0.000104 J	<6.8e-005	8.15e-005 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	
Chromium	mg/L	0.00186	<0.000203	<0.000203	0.000418 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Combined Radium 226 + 228	pCi/L	1.49	12.7	11.9	13.7	0.355 U	0.816	0.761	1.43	1.11	0.378 U	--	0.224 U	--	
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.118 J	0.117 J	0.068 J	<0.01	<0.01	0.04 J	0.04 J	0.04 J	<0.032	
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	
Lithium	mg/L	0.119	0.117	0.138	0.134	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	
Molybdenum	mg/L	0.84	0.785	0.915	0.915	0.0119	0.00256 J	0.00628 J	0.0105	0.0131	0.00593 J	0.00491 J	0.00392 J	--	
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-21													
		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	08/30/2022	02/06/2023	07/26/2023	
Boron	mg/L	--	1.66	2.58	1.5	2.51	2.28	1.84	1.75	1.67	1.61	1.48	1.46	1.33	
Calcium	mg/L	--	64.5	102	61.1	98.3	95.5	80.8	72.7	73.4	73	85.6	83.3	70.1	
Chloride	mg/L	--	29	58	27	64	56.3	47	44.8	40.1	30.6	28.1	25.7	21.8	
Fluoride	mg/L	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	<0.06	0.0676 J	<0.06	
pH_Field	pH	7.67	7.66	7.51	7.67	7.15	7.43	7.58	7.24	7.64	7.48	7.45	7.12	7.44	
Sulfate	mg/L	--	150	180	189	197	199	177	145	162	131	129	113	108	
TDS	mg/L	--	410	506	401	504	490	476	432	443	388	390	376	376	
Antimony	mg/L	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	
Arsenic	mg/L	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	0.00141	0.00144	0.000813	0.000427	
Barium	mg/L	0.033	0.0205	0.0314	0.0146	0.0362	0.0339	0.0223	0.0375	0.0408	0.0497	0.0425	0.0403	0.0349	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<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	0.00032 J	0.000367 J	<0.000203	<0.000203	<0.000203	<0.000203	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000374	0.000238	0.00116	0.00109	0.000721	0.000685	
Combined Radium 226 + 228	pCi/L	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	0.697 U	0.38 U	0.841 U	
Fluoride	mg/L	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	<0.06	0.0676 J	<0.06	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<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	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.0126	0.00623 J	0.0159	0.00611 J	0.0172	0.0139	0.00969 J	0.00838	0.00769	0.0116	0.0101	0.012	0.00956 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

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
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
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
Chloride	mg/L	26.9	37.6	30	22.7	26.5	56	48	58	61	--	61	61	67.3
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
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
Sulfate	mg/L	172	170	171	173	183	170	180	160	170	--	160	150	212
TDS	mg/L	435	426	430	404	428	484	460	485	488	--	477	467	522
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
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
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
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
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
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
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
Combined Radium 226 + 228	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
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
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
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
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
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
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
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

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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-22									GN-AP-MW-17SV				
		09/18/2019	02/26/2020	07/28/2020	04/07/2021	09/27/2021	05/03/2022	08/30/2022	02/06/2023	08/01/2023	09/18/2019	02/26/2020	07/23/2020	04/06/2021	
Boron	mg/L	2.1	2.15	1.97	1.61	1.44	1	0.992	0.95	0.833	2.51	2.55	2.4	2.58	
Calcium	mg/L	102	95.9	92.3	79.7	78.9	64	83.7	69.4	63.2	101	87.1	87	99.9	
Chloride	mg/L	46.3	62.2	66.1	38.9	28.6	14.8	15.3	13.7	13.2	29.6	28.8	27.9	34.4	
Fluoride	mg/L	0.065 J	0.0687 J	<0.06	0.0834 J	0.1	0.0819 J	<0.06	0.0686 J	<0.06	0.12	0.124	0.131	0.129	
pH_Field	pH	7.21	7.33	7.43	6.7	7.23	7.21	7.17	6.88	6.88	7.13	7.55	7.54	7.56	
Sulfate	mg/L	180	196	175	124	114	74.2	77.9	67.2	59.3	260	302	276	297	
TDS	mg/L	460	497	500	409	385	308	296	302	299	499	495	513	572	
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	0.00129 J	<0.001	<0.001	0.000184 J	0.000157 J	0.000153 J	0.00018 J	0.000115 J	<0.000112	0.00215 J	0.00199 J	0.00191 J	0.00217	
Barium	mg/L	0.0458	0.0439	0.0406	0.0352	0.036	0.0276	0.0284	0.0256	0.0236	0.0667	0.066	0.0673	0.0751	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	0.000173 J	
Chromium	mg/L	<0.002	<0.002	<0.002	0.000307 J	0.000309 J	0.00026 J	<0.000203	0.000237 J	0.000247 J	<0.002	<0.002	<0.002	0.000346 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	0.000333	0.000308	0.000146 J	0.000334	0.000147 J	8.75e-005 J	0.00327 J	0.00265 J	0.00251 J	0.00202	
Combined Radium 226 + 228	pCi/L	0.165 U	0.693	0.41 U	0.365 U	0.892 U	0.617 U	0.759 U	0.582 U	0.711 U	1.56	0.489 U	1.26 U	1.13	
Fluoride	mg/L	0.065 J	0.0687 J	<0.06	0.0834 J	0.1	0.0819 J	<0.06	0.0686 J	<0.06	0.12	0.124	0.131	0.129	
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.129	0.193	0.153	0.251	
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	
Molybdenum	mg/L	0.0895	0.0691	0.0677	0.0456	0.0388	0.0342	0.0418	0.0331	0.0424	0.801	1.02	0.968	1.26	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	0.000225 J	0.000254 J	0.000181 J	

Notes:

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ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-17SV					GN-AP-MW-20SV								
		09/29/2021	04/20/2022	08/31/2022	01/24/2023	07/24/2023	05/07/2019	09/18/2019	02/25/2020	07/22/2020	04/12/2021	09/28/2021	04/20/2022	08/30/2022	
Boron	mg/L	2.53	2.61	2.55	2.62	2.61	--	2.28	2.27	2.64	3.13	2.94	2.92	2.81	
Calcium	mg/L	103	140	147	198	189	--	128	123	132	132	135	136	166	
Chloride	mg/L	41.9	59.6	84.6	186	215	--	14.7	17.8	23.1	19.2	18	17.8	16.8	
Fluoride	mg/L	0.12	0.0941 J	0.0679 J	0.103 J	0.105 J	0.101	0.0879 J	0.0976 J	0.0955 J	0.108	0.0942 J	0.0672 J	0.0779 J	
pH_Field	pH	7.61	7.63	7.66	7.55	7.24	7.11	7.14	7.16	7.18	7.02	6.87	7.1	6.7	
Sulfate	mg/L	304	323	307	316	326	--	379	470	432	421	423	441	400	
TDS	mg/L	568	636	682	897	1020	--	680	708	744	768	740	768	758	
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	--	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	
Arsenic	mg/L	0.00207	0.00183	0.00203	0.00179	0.0024	--	0.00253 J	0.00243 J	0.0042 J	0.00339	0.00296	0.00228	0.00234	
Barium	mg/L	0.0826	0.0906	0.101	0.128	0.122	--	0.0982	0.0912	0.12	0.127	0.132	0.12	0.126	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	--	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	0.000104 J	0.000175 J	7.91e-005 J	9.52e-005 J	9.19e-005 J	--	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.000268 J	0.000268 J	0.000336 J	<0.000203	0.000674 J	--	<0.002	<0.002	<0.002	0.000305 J	0.0003 J	0.000241 J	<0.000203	
Cobalt	mg/L	0.00206	0.00247	0.00155	0.00349	0.00486	--	0.00207 J	<0.002	<0.002	0.000454	0.00054	0.000499	0.000548	
Combined Radium 226 + 228	pCi/L	1.23	1.72	1.62	1.57	1.81	--	1.14	0.925	1.46	1.51	2.92	2.27	2.08	
Fluoride	mg/L	0.12	0.0941 J	0.0679 J	0.103 J	0.105 J	0.101	0.0879 J	0.0976 J	0.0955 J	0.108	0.0942 J	0.0672 J	0.0779 J	
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	--	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.196	0.233	0.242	0.264	0.207	--	0.0108 J	0.0117 J	<0.01	0.00768 J	0.00723 J	0.00723 J	0.0077 J	
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	
Molybdenum	mg/L	1.11	1.17	1.13	1.15	0.884	--	0.264	0.257	0.147	0.146	0.147	0.174	0.177	
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	--	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	
Thallium	mg/L	0.000213	0.000268	0.000135 J	0.000294	0.000173 J	--	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	

Notes:

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ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-20SV		GN-AP-MW-20V										GN-AP-MW-17V	
		01/24/2023	07/25/2023	09/18/2019	02/25/2020	07/22/2020	04/12/2021	09/28/2021	04/19/2022	08/29/2022	01/24/2023	07/25/2023	09/17/2019	02/26/2020	
Boron	mg/L	2.63	2.72	2.91	2.92	2.79	3.05	2.94	3.07	2.98	2.83	3.08	2.07	2.22	
Calcium	mg/L	146	130	124	124	119	121	127	130	171	127	122	94	66.6	
Chloride	mg/L	17.3	16.9	15.9	16.4	18.5	24.4	23.4	21.9	19.3	19.9	19.7	30.8	27.2	
Fluoride	mg/L	0.092 J	0.0841 J	0.0523 J	0.0724 J	<0.06	0.0733 J	0.0697 J	0.0679 J	0.0767 J	0.117 J	<0.06	0.0925 J	0.101	
pH_Field	pH	7.07	7.12	8.32	8.31	8.25	8.14	8.03	8.11	8.08	8.13	8.1	8.66	8.84	
Sulfate	mg/L	351	417	481	599	507	499	528	501	495	437	504	243	288	
TDS	mg/L	688	728	784	802	814	844	850	856	878	792	850	458	467	
Antimony	mg/L	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	
Arsenic	mg/L	0.00222	0.00208	<0.001	<0.001	0.00105 J	0.002	0.00222	0.00298	0.00278	0.00235	0.00244	0.00136 J	0.00123 J	
Barium	mg/L	0.114	0.113	0.0241	0.0239	0.0242	0.0273	0.0312	0.0323	0.0342	0.0348	0.0279	0.0475	0.0547	
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	
Cadmium	mg/L	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	8.86e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	
Chromium	mg/L	<0.000203	0.000247 J	<0.002	<0.002	<0.002	0.000634 J	0.00155	0.00174	0.00173	0.000234 J	0.000305 J	<0.002	<0.002	
Cobalt	mg/L	0.000682	0.000689	<0.002	<0.002	<0.002	<6.8e-005	0.000225	0.000332	0.000285	0.000255	9.53e-005 J	<0.002	<0.002	
Combined Radium 226 + 228	pCi/L	2.7	1.82	2.02	1.78	1.7	2.14	2.87	3.27	3.72	2.48	3.34	6.44	5.34	
Fluoride	mg/L	0.092 J	0.0841 J	0.0523 J	0.0724 J	<0.06	0.0733 J	0.0697 J	0.0679 J	0.0767 J	0.117 J	<0.06	0.0925 J	0.101	
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	0.000234	0.000718	0.00115	0.000847	0.000161 J	0.000135 J	<0.001	<0.001	
Lithium	mg/L	0.00829 J	0.00881 J	0.0399	0.0421	0.0423	0.0463	0.0451	0.0416	0.0427	0.0422	0.0422	0.432	0.465	
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	
Molybdenum	mg/L	0.184	0.206	0.271	0.281	0.288	0.311	0.324	0.338	0.34	0.329	0.326	1.73	1.89	
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	

Notes:

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ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-17V							GN-AP-MW-16V					
		07/23/2020	04/06/2021	09/29/2021	04/26/2022	08/31/2022	01/25/2023	07/24/2023	09/16/2019	02/25/2020	07/28/2020	04/05/2021	09/28/2021	04/27/2022
Boron	mg/L	1.93	2.16	2.03	2.13	2.03	2.17	2.12	1.38	1.4	1.34	1.39	1.37	1.41
Calcium	mg/L	62	72.8	71.5	104	91.6	121	132	38.7	38.8	38.6	40.4	42.3	49.3
Chloride	mg/L	27	34.5	39.2	71.5	70.2	160	209	23.5	25.1	20.7	19.8	23.3	30.8
Fluoride	mg/L	0.0891 J	0.0995 J	0.0713 J	<0.06	<0.06	<0.06	0.0821 J	0.0935 J	0.0992 J	0.0811 J	0.136	0.0851 J	<0.06
pH_Field	pH	8.49	8.6	8.3	8.39	8.27	8.35	8.21	8.32	8.61	8.09	8.54	8.59	8.45
Sulfate	mg/L	254	288	283	287	268	265	278	137	146	137	150	177	173
TDS	mg/L	457	525	509	578	588	722	880	275	288	274	289	297	318
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.00475	0.0127	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00128 J	0.00122	0.0015	0.00112	0.00134	0.00146	0.00147	0.00111 J	0.00105 J	0.00117 J	0.00117	0.0012	0.00114
Barium	mg/L	0.0424	0.0491	0.0502	0.0551	0.0595	0.0772	0.0841	0.0503	0.0507	0.052	0.0482	0.0547	0.0557
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	0.000249	0.000167 J	0.000314	0.00016 J	0.000166 J	0.00018 J	<0.0003	<0.0003	<0.0003	8.25e-005 J	8.11e-005 J	0.000123 J
Chromium	mg/L	<0.002	0.000443 J	0.000331 J	0.000238 J	0.000343 J	<0.000203	0.000335 J	<0.002	<0.002	<0.002	0.00044 J	0.00033 J	0.000246 J
Cobalt	mg/L	<0.002	0.0001 J	<6.8e-005	6.96e-005 J	<6.8e-005	8.73e-005 J	0.00015 J	<0.002	<0.002	<0.002	0.000888	0.000872	0.000985
Combined Radium 226 + 228	pCi/L	8.21	10.9	11	11.6	11	14	17.4	3.26	2.46	2.99	2.4	3.09	2.56
Fluoride	mg/L	0.0891 J	0.0995 J	0.0713 J	<0.06	<0.06	<0.06	0.0821 J	0.0935 J	0.0992 J	0.0811 J	0.136	0.0851 J	<0.06
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	6.84e-005 J	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.405	0.522	0.467	0.505	0.493	0.634	0.631	0.312	0.318	0.307	0.319	0.318	0.339
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
Molybdenum	mg/L	1.99	2.22	2.12	2.06	2.12	2.15	1.91	0.625	0.629	0.628	0.614	0.653	0.694
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000604 J	0.000552 J	0.000514 J	0.000465	0.000466	0.000601

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ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-16V			GN-AP-MW-23D									GN-AP-MW-32V
		08/30/2022	01/24/2023	07/19/2023	09/18/2019	02/19/2020	07/21/2020	04/06/2021	09/21/2021	04/20/2022	09/07/2022	01/31/2023	07/25/2023	10/22/2019
Boron	mg/L	1.38	1.4	1.43	1.42	1.54	1.42	1.46	1.46	1.46	1.4	1.37	1.31	0.489
Calcium	mg/L	65.5	52	83.3	41.9	61.5	37.8	34.3	51.9	34.4	33.2	36.3	37.8	39.8
Chloride	mg/L	31.8	50.7	92	60.7	64	65.3	58.7	55.7	56.9	52.7	51	41.6	19.1
Fluoride	mg/L	0.0733 J	0.0946 J	0.0817 J	0.0623 J	<0.05	0.0713 J	0.105	0.102	<0.06	0.0739 J	0.0635 J	<0.06	0.127
pH_Field	pH	8.94	8.47	8.33	7.72	7.92	7.63	7.89	8.08	7.86	7.93	7.97	7.81	8.49
Sulfate	mg/L	157	146	161	102	119	51.1	33.5	80.7	42.6	44.6	53.5	57	125
TDS	mg/L	343	357	436	378	436	331	309	407	320	313	325	323	292
Antimony	mg/L	<0.000508	0.00427	0.00779	0.000804 J	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008
Arsenic	mg/L	0.000994	0.00116	0.00121	0.00255 J	<0.001	0.00175 J	0.0022	0.00102	0.00196	0.00168	0.00142	0.001	0.00197 J
Barium	mg/L	0.063	0.0659	0.0841	0.027	0.052	0.0336	0.0353	0.0582	0.0399	0.0426	0.0495	0.0501	0.0331
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	7.98e-005 J	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003
Chromium	mg/L	<0.000203	0.000392 J	0.000459 J	<0.002	<0.002	<0.002	0.000305 J	0.000354 J	0.000293 J	<0.000203	0.000231 J	<0.000203	<0.002
Cobalt	mg/L	0.00108	0.00151	0.00159	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002
Combined Radium 226 + 228	pCi/L	2.99	3.45	4.54	0.0448 U	0.384 U	0.608	0.312 U	0.618 U	0.757 U	0.81 U	0.483 U	0.856 U	0.94
Fluoride	mg/L	0.0733 J	0.0946 J	0.0817 J	0.0623 J	<0.05	0.0713 J	0.105	0.102	<0.06	0.0739 J	0.0635 J	<0.06	0.127
Lead	mg/L	<6.8e-005	0.000208	0.000137 J	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001
Lithium	mg/L	0.331	0.394	0.408	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0757
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
Molybdenum	mg/L	0.686	0.74	0.669	0.0054 J	0.0077 J	0.00231 J	0.00163	0.00537	0.00098	0.000634	0.00131	<0.005075	0.273
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	0.000946 J	<0.000508	<0.002
Thallium	mg/L	0.000625	0.000719	0.000757	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-32V								GN-AP-MW-33V				
		02/26/2020	07/20/2020	03/30/2021	09/27/2021	04/26/2022	09/06/2022	02/07/2023	07/26/2023	10/23/2019	02/25/2020	07/21/2020	03/30/2021	09/22/2021
Boron	mg/L	0.446	0.369	0.399	0.401	0.417	0.409	0.458	0.464	0.309	0.337	0.247	0.231	0.145
Calcium	mg/L	43.5	69.3	60.5	59.6	68.6	67.1	54.9	48.8	59	56.6	46.8	45.8	40.4
Chloride	mg/L	20.1	43.1	45.3	38.1	35.9	30.3	26	26	18.6	29.2	27.7	27	21.6
Fluoride	mg/L	0.143	0.169	0.216	0.245	0.16	0.165	0.14	0.134	0.181	0.235	0.313	0.29	0.363
pH_Field	pH	8.01	7.42	7.86	8.14	7.84	7.83	7.42	7.45	7.59	7.72	7.51	7.82	7.78
Sulfate	mg/L	119	169	144	150	130	132	137	140	72.7	55.5	24.4	17.4	36
TDS	mg/L	315	521	483	447	433	398	374	372	334	353	333	329	354
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.00438 J	<0.001	0.0046	0.00523	0.00528	0.00679	0.00472	0.0038	0.00358 J	0.00476 J	0.0111	0.00882	0.0209
Barium	mg/L	0.0489	0.0555	0.0584	0.0631	0.0584	0.0622	0.0527	0.0538	0.0459	0.0549	0.0654	0.0593	0.064
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	0.000277 J	0.000288 J	0.000203 J	0.000276 J	<0.000203	0.000448 J	<0.002	<0.002	<0.002	0.000264 J	0.000227 J
Cobalt	mg/L	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	1.42	1.4	1.47	1.64	1.83	2.26	1.56	1.76	1.09	0.967	1.34	1.41	1.67
Fluoride	mg/L	0.143	0.169	0.216	0.245	0.16	0.165	0.14	0.134	0.181	0.235	0.313	0.29	0.363
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0717	0.0659	0.07	0.0706	0.0637	0.0659	0.0604	0.0655	0.128	0.164	0.127	0.12	0.0901
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
Molybdenum	mg/L	0.259	0.0857	0.0352	0.0407	0.0332	0.026	0.145	0.0794	0.196	0.126	0.0306	0.0174	0.0124
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-33V				GN-AP-MW-34V									
		04/26/2022	09/06/2022	01/25/2023	07/24/2023	10/22/2019	02/19/2020	07/21/2020	03/30/2021	09/29/2021	04/27/2022	09/07/2022	01/31/2023	08/01/2023	
Boron	mg/L	0.129	0.137	0.141	0.113	2.65	2.82	2.69	2.85	2.81	3	2.93	2.84	2.98	
Calcium	mg/L	61.6	53.5	49.6	50.3	119	124	121	122	118	157	136	129	126	
Chloride	mg/L	18.8	23.9	24.2	19.3	18.3	17.5	18.1	19	19.7	19	18.5	17.6	16.9	
Fluoride	mg/L	0.177	0.245	0.234	0.148	0.193	0.13	0.118	0.106	0.136	<0.06	0.0807 J	0.0808 J	0.0858 J	
pH_Field	pH	7.42	7.65	7.72	7.56	8.14	8.09	7.98	7.88	8.44	7.86	7.45	7.85	7.8	
Sulfate	mg/L	36.8	25.9	20.9	26.4	486	492	496	452	496	484	471	416	470	
TDS	mg/L	303	313	317	302	820	802	816	810	844	788	802	760	788	
Antimony	mg/L	<0.000508	<0.000508	0.0157	0.029	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	
Arsenic	mg/L	0.0135	0.0122	0.0145	0.0108	0.00302 J	0.00393 J	0.00401 J	0.00303	0.00231	0.00339	0.00354	0.00321	0.00367	
Barium	mg/L	0.0461	0.0629	0.0615	0.0514	0.0559	0.0576	0.0477	0.0392	0.041	0.0349	0.0345	0.0295	0.0341	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<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	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	
Chromium	mg/L	0.000324 J	0.000279 J	0.000256 J	0.000305 J	<0.002	<0.002	<0.002	0.000281 J	0.000319 J	<0.000203	<0.000203	<0.000203	0.000312 J	
Cobalt	mg/L	7.56e-005 J	<6.8e-005	8.49e-005 J	0.000133 J	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	
Combined Radium 226 + 228	pCi/L	1.21	1.8	1.07	2.64	0.822	0.991	1.28	0.371 U	1.81	1.22	1.18	0.515 U	1.21 U	
Fluoride	mg/L	0.177	0.245	0.234	0.148	0.193	0.13	0.118	0.106	0.136	<0.06	0.0807 J	0.0808 J	0.0858 J	
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	8.56e-005 J	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.0711	0.0726	0.0725	0.0567	0.0329	0.038	0.0378	0.0396	0.0365	0.036	0.0355	0.0305	0.0373	
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	
Molybdenum	mg/L	0.0292	0.00837	0.0228	0.0399	0.315	0.344	0.352	0.273	0.209	0.286	0.302	0.327	0.37	
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	0.000599 J	<0.000508	
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-31VR								GN-AP-MW-36V				
		04/29/2020	07/27/2020	04/05/2021	09/29/2021	04/27/2022	08/31/2022	01/24/2023	07/19/2023	04/29/2020	07/20/2020	03/30/2021	09/22/2021	04/26/2022
Boron	mg/L	0.204	0.157	0.171	0.155	0.124	0.142	0.144	0.14	0.182	0.222	0.208	0.18	0.162
Calcium	mg/L	56.5	41.5	33.1	30.2	39.7	50.8	48.9	52.2	39.1	43.3	33.7	30.3	27.9
Chloride	mg/L	25.4	33	30.6	29.9	22.8	17.9	17.5	16.6	145	209	195	168	137
Fluoride	mg/L	0.269	0.428	0.558	0.656	0.39	0.208	0.204	0.266	0.397	0.407	0.405	0.452	0.436
pH_Field	pH	7.68	7.97	8.19	8.47	7.71	7.76	7.8	7.54	8.05	8.07	8.11	7.93	8.03
Sulfate	mg/L	93.9	49.6	21.7	13.7	24.1	35.3	33.5	26	214	259	199	192	165
TDS	mg/L	373	361	319	309	272	284	271	282	742	896	767	673	596
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<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	0.00581	0.0065	0.00609	0.00178 J	<0.001	0.00131	0.00172	0.00212
Barium	mg/L	0.0364	0.0318	0.0267	0.0281	0.0289	0.0301	0.0314	0.0332	0.0831	0.0841	0.0792	0.0847	0.0799
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<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	<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	0.000297 J	<0.000203	<0.000203	<0.002	<0.002	0.000287 J	0.000286 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.35 U	0.288 U	0.716 U	0.463 U	0.735 U	0.888 U	0.846	1.24	1.42	1.54	1.83	1.95	1.32
Fluoride	mg/L	0.269	0.428	0.558	0.656	0.39	0.208	0.204	0.266	0.397	0.407	0.405	0.452	0.436
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<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	<0.007105	<0.007105	<0.007105	0.0284	0.0358	0.0297	0.0246	0.018 J
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
Molybdenum	mg/L	0.0456	0.0199	0.0133	0.0129	0.0199	0.0382	0.0292	0.0149	0.0994	0.0698	0.0663	0.0506	0.0459
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<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	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-36V			GN-AP-MW-35V								GN-AP-MW-37V	
		09/06/2022	01/25/2023	07/24/2023	04/29/2020	07/21/2020	03/30/2021	09/29/2021	04/27/2022	09/07/2022	02/07/2023	08/01/2023	04/29/2020	07/20/2020
Boron	mg/L	0.144	0.135	0.121	0.184	0.148	0.143	0.117	0.22	0.205	0.201	0.195	0.317	0.393
Calcium	mg/L	26.3	24.4	23.2	50	43.7	38.8	37.6	54.7	38.4	34.6	34.2	44.9	40.6
Chloride	mg/L	123	109	88.8	5.78	8.95	11.3	11.3	8.01	7.9	7.65	7.56	12.9	12.4
Fluoride	mg/L	0.421	0.411	0.42	0.141	0.157	0.187	0.223	0.0993 J	0.129	0.138	0.132	0.164	0.158
pH_Field	pH	7.96	8.12	7.93	7.71	7.69	7.91	7.83	8	7.96	8.17	8.2	7.94	7.8
Sulfate	mg/L	155	128	121	39	43.4	39.4	38.5	37.3	38.6	38.2	37.5	99.9	94.9
TDS	mg/L	584	556	512	227	249	252	275	255	256	275	283	273	252
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008
Arsenic	mg/L	0.00268	0.00299	0.00343	<0.001	0.00222 J	0.00223	0.00232	0.00212	0.00251	0.00301	0.00361	0.0042 J	0.00169 J
Barium	mg/L	0.0855	0.0843	0.078	0.0163	0.0199	0.0184	0.019	0.017	0.018	0.0154	0.015	0.0336	0.0352
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003
Chromium	mg/L	<0.000203	<0.000203	<0.000203	<0.002	<0.002	0.000237 J	0.00023 J	<0.000203	<0.000203	0.000235 J	<0.000203	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	1.93	1.07	2.13	0.455 U	0.537	0.768 U	1.27	1 U	1 U	0.925	1.21 U	3.65	4.06
Fluoride	mg/L	0.421	0.411	0.42	0.141	0.157	0.187	0.223	0.0993 J	0.129	0.138	0.132	0.164	0.158
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	0.0163 J	0.0151 J	0.0134 J	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0377	0.0522
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
Molybdenum	mg/L	0.0437	0.0446	0.0393	0.0266	0.0268	0.0205	0.0199	0.0128	0.0116	0.0117	0.0123	0.208	0.213
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
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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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-37V						GN-AP-MW-29H						
		03/30/2021	09/27/2021	04/26/2022	09/06/2022	01/24/2023	07/26/2023	09/17/2019	02/25/2020	07/29/2020	04/05/2021	09/28/2021	04/26/2022	08/31/2022
Boron	mg/L	0.526	0.51	0.434	0.41	0.392	0.355	1.18	1.21	1.16	1.2	1.16	1.22	1.17
Calcium	mg/L	40.1	40.1	49.4	39.8	37.1	39.5	48.5	46.8	43.9	44.7	46.9	50.9	56.5
Chloride	mg/L	13.1	13.6	14.1	14.3	14.7	13.2	20.5	25.5	25.5	25.2	26.8	29.6	32.8
Fluoride	mg/L	0.169	0.187	0.152	0.235	0.158	0.146	0.0669 J	0.0683 J	0.0608 J	0.078 J	0.0614 J	<0.06	<0.06
pH_Field	pH	8.04	7.88	7.9	7.96	7.99	8.06	8.44	8.48	8.38	8.16	8.58	8.29	8.32
Sulfate	mg/L	97.3	104	91.3	84.7	80.2	81	161	177	163	168	172	180	170
TDS	mg/L	262	249	250	249	262	255	331	330	328	345	340	359	371
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000664	0.000484	0.000726	0.000657	0.000801	0.00037	0.00222 J	0.00235 J	0.00237 J	0.00227	0.00222	0.0021	0.00217
Barium	mg/L	0.0355	0.0367	0.0353	0.0376	0.0371	0.0356	0.0567	0.0581	0.0549	0.0577	0.0597	0.0604	0.0678
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<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	<0.0003	<0.0003	<0.0003	<6.8e-005	0.000153 J	0.000132 J	0.000134 J
Chromium	mg/L	0.000245 J	0.000379 J	<0.000203	0.000253 J	<0.000203	<0.000203	<0.002	<0.002	<0.002	0.000293 J	0.000332 J	0.000242 J	0.000363 J
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	4.78	4	4.41	3.92	3.82	4.22	13.2	13.7	16.2	18.7	16.8	17.9	17
Fluoride	mg/L	0.169	0.187	0.152	0.235	0.158	0.146	0.0669 J	0.0683 J	0.0608 J	0.078 J	0.0614 J	<0.06	<0.06
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0615	0.061	0.0446	0.0431	0.039	0.0383	0.289	0.307	0.303	0.323	0.302	0.309	0.315
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
Molybdenum	mg/L	0.227	0.221	0.176	0.156	0.136	0.121	1.04	1.09	0.999	1.01	1.01	1.06	1.08
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<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	<0.0002	<0.0002	<0.0002	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-29H		GN-AP-MW-28H									GN-AP-MW-23S	
		01/24/2023	07/19/2023	09/16/2019	02/25/2020	07/29/2020	04/05/2021	09/28/2021	04/27/2022	08/31/2022	01/30/2023	07/19/2023	09/17/2019	02/19/2020
Boron	mg/L	1.19	1.23	0.805	0.789	0.779	0.796	0.788	0.798	0.786	0.802	0.824	0.735	1.2
Calcium	mg/L	52.8	62.7	46.7	42.6	39.6	39.9	39.7	44.8	45.2	44.6	52.5	66.8	73.5
Chloride	mg/L	38.9	46	15.6	16.9	17.5	17.2	18.3	19.8	20.3	24.7	34.2	44.7	42
Fluoride	mg/L	<0.06	0.0829 J	0.0768 J	0.0778 J	0.067 J	0.0933 J	0.0653 J	<0.06	<0.06	0.0758 J	0.0831 J	0.0892 J	0.0647 J
pH_Field	pH	8.25	8.17	8.22	8.32	8.3	7.91	8.38	7.83	8.17	8.28	8.2	6.88	7.36
Sulfate	mg/L	162	180	126	134	134	133	133	135	128	134	127	67.1	69.4
TDS	mg/L	367	398	276	276	278	287	269	282	298	285	320	342	357
Antimony	mg/L	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008
Arsenic	mg/L	0.00198	0.0023	0.0036 J	0.00352 J	0.0032 J	0.00321	0.0028	0.00268	0.00272	0.00275	0.0026	<0.001	<0.001
Barium	mg/L	0.0638	0.0648	0.0321	0.0304	0.0305	0.0309	0.0345	0.0328	0.035	0.0328	0.0366	0.0316	0.0443
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	0.000123 J	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	8.74e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003
Chromium	mg/L	<0.000203	0.000286 J	<0.002	<0.002	<0.002	0.000648 J	0.000319 J	0.000362 J	0.000281 J	0.000278 J	0.000218 J	<0.002	<0.002
Cobalt	mg/L	<6.8e-005	6.91e-005 J	<0.002	<0.002	<0.002	0.000304	0.000192 J	0.000349	0.000205	0.000319	0.000311	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	17.8	18.2	4.63	5.25	7.14	6.64	6.47	5.85	6.83	7.25	8.53	0.732	0.752
Fluoride	mg/L	<0.06	0.0829 J	0.0768 J	0.0778 J	0.067 J	0.0933 J	0.0653 J	<0.06	<0.06	0.0758 J	0.0831 J	0.0892 J	0.0647 J
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	0.000129 J	<6.8e-005	9.61e-005 J	<6.8e-005	7.1e-005 J	<6.8e-005	<0.001	<0.001
Lithium	mg/L	0.335	0.336	0.141	0.14	0.147	0.148	0.142	0.145	0.146	0.152	0.159	<0.01	<0.01
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
Molybdenum	mg/L	1.08	1.06	0.469	0.464	0.483	0.471	0.491	0.487	0.494	0.475	0.485	0.0142	0.0274
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	0.000149 J	0.000116 J	0.000192 J	0.000102 J	0.000236	0.000334	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-23S							GN-AP-MW-26					
		07/21/2020	04/06/2021	09/21/2021	04/20/2022	09/07/2022	01/31/2023	07/25/2023	09/18/2019	02/19/2020	07/22/2020	04/07/2021	09/22/2021	04/20/2022
Boron	mg/L	0.743	0.672	0.541	0.584	0.393	0.313	0.253	1.33	1.34	1.18	1.16	1.13	1.03
Calcium	mg/L	64.2	55.2	48.9	62.9	58.9	48	40.1	81.8	73.7	67.7	69.3	68	73.2
Chloride	mg/L	45	30.7	20.6	23.8	18.9	16.7	16.9	41.5	43.2	37	40.3	29.7	22.3
Fluoride	mg/L	0.0903 J	0.109	0.105	<0.06	<0.06	0.0812 J	0.0709 J	<0.05	<0.05	<0.06	0.0741 J	0.0852 J	<0.06
pH_Field	pH	7.28	7.23	7.27	6.43	7.26	7.19	6.76	7.49	7.54	7.42	7.57	7.76	6.87
Sulfate	mg/L	59.8	46.3	39.6	40.1	30	28.5	24.9	142	143	131	124	118	93.7
TDS	mg/L	318	280	246	276	235	223	225	433	423	406	406	379	354
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	0.00026	0.000169 J	0.000276	0.000255	0.000173 J	0.00013 J	<0.001	<0.001	<0.001	0.000148 J	0.000117 J	0.000116 J
Barium	mg/L	0.0312	0.0282	0.0229	0.0279	0.0218	0.0185	0.0176	0.0192	0.0166	0.0174	0.0177	0.0179	0.0171
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<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	0.000261 J	0.000306 J	0.000256 J	0.000268 J	0.000224 J	<0.000203	<0.002	<0.002	<0.002	0.0003 J	0.000325 J	0.000377 J
Cobalt	mg/L	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.566	1 U	0.337 U	0.419 U	0.519 U	0.609 U	1.06 U	0.976	0.475 U	0.713	0.472 U	1.2 U	0 U
Fluoride	mg/L	0.0903 J	0.109	0.105	<0.06	<0.06	0.0812 J	0.0709 J	<0.05	<0.05	<0.06	0.0741 J	0.0852 J	<0.06
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	8.67e-005 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	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<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
Molybdenum	mg/L	0.0181	0.0175	0.0146	0.0172	0.0148	0.00931	0.0078 J	<0.002	<0.002	0.0027 J	0.00202	0.00244	0.00235
Selenium	mg/L	<0.002	<0.000507	0.000683 J	<0.000508	<0.000508	0.00108	0.000684 J	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<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:

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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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-26			GN-AP-MW-27										GN-AP-MW-30H
		08/29/2022	02/07/2023	07/25/2023	09/18/2019	02/25/2020	07/21/2020	04/06/2021	09/21/2021	05/02/2022	09/06/2022	02/06/2023	07/25/2023	10/22/2019	
Boron	mg/L	1	0.972	0.88	1.23	0.352	0.658	0.214	0.129	0.178	0.154	0.157	0.143	0.0484 J	
Calcium	mg/L	75.7	71.8	56.1	81.7	31.5	54.3	25.9	22.3	27.3	28.6	26.2	28.1	89.1	
Chloride	mg/L	20	19.7	14.6	56.7	22.1	35	17.4	13	13	13.6	12.9	12.8	32.3	
Fluoride	mg/L	<0.06	<0.06	<0.06	0.0618 J	0.0554 J	0.0959 J	0.0752 J	<0.06	<0.06	<0.06	<0.06	<0.06	0.187	
pH_Field	pH	7.27	7.58	7.55	6.68	6.7	6.9	6.26	6.58	6.74	6.99	6.79	7.06	7.18	
Sulfate	mg/L	86.9	88.1	76.4	120	26.5	69.6	18.3	12.1	14.6	12	11.9	10.7	23.4	
TDS	mg/L	349	358	327	412	173	288	143	114	152	150	143	155	396	
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.0008	
Arsenic	mg/L	0.000112 J	0.000102 J	0.000135 J	<0.001	<0.001	<0.001	0.000159 J	0.000182 J	0.000176 J	0.000198 J	0.000121 J	0.000163 J	0.00169 J	
Barium	mg/L	0.0177	0.0183	0.0178	0.04	0.0149	0.0251	0.0151	0.0139	0.0158	0.0144	0.0135	0.0158	0.0702	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	
Chromium	mg/L	0.000296 J	0.000303 J	0.000446 J	<0.002	<0.002	<0.002	0.000362 J	0.000274 J	0.000274 J	0.000321 J	0.000248 J	0.000305 J	<0.002	
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	
Combined Radium 226 + 228	pCi/L	0.373 U	0.0157 U	0.419 U	1.01	0.269 U	0.488 U	0.21 U	0 U	0.305 U	0.427 U	0.517 U	0.698 U	1.13	
Fluoride	mg/L	<0.06	<0.06	<0.06	0.0618 J	0.0554 J	0.0959 J	0.0752 J	<0.06	<0.06	<0.06	<0.06	<0.06	0.187	
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	
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	
Molybdenum	mg/L	0.00298	0.00254	<0.005075	0.0187	0.00511 J	0.0141	0.00355	0.00298	0.00501	0.00591	0.00433	0.00717 J	0.00346 J	
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	

Notes:

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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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-30H								GN-AP-MW-1				
		02/19/2020	07/23/2020	04/06/2021	09/29/2021	05/02/2022	08/31/2022	01/31/2023	07/19/2023	03/29/2016	03/30/2016	05/19/2016	07/12/2016	09/13/2016
Boron	mg/L	0.0595 J	0.0482 J	0.0485 J	0.0481 J	0.0502 J	0.0465 J	0.0417 J	0.0463 J	<0.02	--	<0.02	<0.02	<0.02
Calcium	mg/L	83.8	79.1	78	78.8	78.8	91.9	85.6	95.9	45.6	--	49.7	53.8	53.5
Chloride	mg/L	31.5	30.4	34.4	31.9	31.7	28.9	33.5	32.2	2.16	--	2.11	2.93	2.91
Fluoride	mg/L	0.236	0.17	0.193	0.19	0.152	0.131	0.159	0.149	0.058 J	--	0.093 J	0.092 J	0.045 J
pH_Field	pH	7.22	7.07	7.15	7.73	7.14	7.17	7.14	6.81	7.39	--	7.35	7.46	7.43
Sulfate	mg/L	43.2	35.3	37.8	28.7	25.1	25.9	24.4	27.5	15.9	--	18	24.6	11.6
TDS	mg/L	463	440	426	415	412	411	380	393	274	--	270	289	275
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	0.00112 J	--	0.000818 J	<0.0006	<0.0006
Arsenic	mg/L	0.00651	0.00536	0.00801	0.00696	0.00548	0.00428	0.00343	0.00551	0.00412 J	--	0.00313 J	0.00459 J	0.00531
Barium	mg/L	0.109	0.0899	0.082	0.0813	0.0734	0.0742	0.0672	0.0706	0.017	--	0.0161	0.02	0.0176
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	--	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	--	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	0.000317 J	0.000384 J	0.000211 J	0.000285 J	<0.000203	0.000232 J	0.00233 J	--	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	0.00127	0.00112	0.00125	0.00121	0.00135	0.00119	<0.002	--	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.994	2.13	1.8	1.7	0.758 U	1.91	1.91	2.35	1 U	1 U	0.949	0.73	0.948
Fluoride	mg/L	0.236	0.17	0.193	0.19	0.152	0.131	0.159	0.149	0.058 J	--	0.093 J	0.092 J	0.045 J
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	--	<0.001	<0.001	<0.001
Lithium	mg/L	0.0107 J	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0182 J	--	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	--	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.00389 J	0.00248 J	0.00231	0.00213	0.00195	0.00223	0.00237	<0.005075	0.0463	--	0.0326	0.0164	0.0072 J
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	--	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-1											GN-AP-MW-2	
		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	03/28/2016	05/18/2016
Boron	mg/L	0.0246 J	<0.02	<0.02	<0.02	<0.02	--	0.0459 J	<0.02	<0.03	--	<0.03	<0.02	<0.02
Calcium	mg/L	55.1	55.3	55.7	55.1	57	--	56.4	57.2	59.2	--	60.7	34.2	32.6
Chloride	mg/L	2.72	3.5	3.7	3.2	2.9	--	3.3	2.3	4.75	--	4.14	1.73	1.4
Fluoride	mg/L	<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	0.028 J	0.064 J
pH_Field	pH	7.42	7.36	7.33	7.34	7.31	7.36	7.24	7.36	7.41	7.33	7.62	7.79	7.73
Sulfate	mg/L	9.07	10	16	13	16	--	20	23	33.1	--	28.3	2.09	1.92
TDS	mg/L	258	291	260	270	284	--	263	270	294	302	285	138	156
Antimony	mg/L	<0.0006	0.000622 J	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	0.0013 J	--	<0.0008	<0.0006	<0.0006
Arsenic	mg/L	0.00571	0.00766	0.00528	0.00513	--	0.00565	0.00762	0.00529	0.00679	--	0.00422 J	<0.001	<0.001
Barium	mg/L	0.02	0.0247	0.0187	0.0172	--	0.0195	0.024	0.0225	0.0266	--	0.0282	0.00887 J	0.00816 J
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
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	--	0.00439 J	<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
Combined Radium 226 + 228	pCi/L	1.28	0.232 U	--	1.02	--	0.707	0.467 U	0.864	0.564	--	0.43 U	1 U	0.142 U
Fluoride	mg/L	<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	0.028 J	0.064 J
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
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
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	--	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	0.00598 J	0.00869 J	0.0132	0.0128	--	0.0153	0.0124	0.0131	0.0191	--	0.017	0.00274 J	<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
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

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



ANALYTICAL DATA SUMMARY
Ash Pond (03/28/2016 - 08/01/2023)
APC Plant Gaston
Shelby County Alabama

Analyte	Units	GN-AP-MW-2											
		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
Boron	mg/L	<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	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	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	0.054 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	7.99	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	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	167	166	192	186	158	156	168	--	154	156	160	154
Antimony	mg/L	<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	0.00105 J	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	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
Cadmium	mg/L	<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
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
Combined Radium 226 + 228	pCi/L	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
Fluoride	mg/L	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
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
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
Mercury	mg/L	<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	<0.002	<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
Thallium	mg/L	<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. Historical Groundwater Elevations Summary
Plant Gaston Ash Pond
03/28/2016 - 07/17/2023

Well	Hydraulic Location	Geologic Unit	Measure Date																
			03/28/16	05/16/16	07/11/16	09/12/16	11/14/16	02/27/17	05/22/17	06/19/17	08/14/17	01/09/18	04/16/18	10/01/18	04/01/19	09/16/19	10/22/19	02/17/20	04/29/20
GN-AP-MW-3	Upgradient	Middle Knox Dolomite	431.94	432.11	429.73	432.14	431.81	432.17	433.04	433.20	433.25	432.93	433.29	433.73	430.71	428.11		432.58	430.40
GN-AP-MW-38	Upgradient	Middle Knox Dolomite																	
GN-AP-MW-39	Upgradient	Wash Creek Slate																	
GN-AP-MW-40	Upgradient	Middle Knox Dolomite																	
GN-AP-MW-41	Upgradient	Middle Knox Dolomite																	
GN-AP-MW-42	Upgradient	Middle Knox Dolomite																	
GN-AP-MW-4	Downgradient	Middle Knox Dolomite	430.53	428.25	426.02	425.20	423.27	428.82	428.34	430.38	431.53	427.56	435.31	424.26	428.29	420.57		438.60	434.34
GN-AP-MW-5	Downgradient	Upper Knox Dolomite	421.08	419.52	417.43	417.26	416.08	420.74	419.54	421.89	423.55	419.90	425.45	419.16	419.96	413.86		426.28	424.68
GN-AP-MW-6	Downgradient	Upper Knox Dolomite	417.77	417.07	416.02	415.82	415.39	417.91	417.21	418.02	418.47	417.53	419.32	416.76	417.51	413.47		419.02	418.05
GN-AP-MW-7	Downgradient	Upper Knox Dolomite	415.16	414.16	410.16	409.45	407.55	415.11	413.72	415.21	415.14	414.44	416.34	412.00	415.41	407.47		416.58	415.95
GN-AP-MW-8	Downgradient	Middle Knox Dolomite	416.93	416.49	410.20	409.65	405.81	416.88	416.24	416.99	417.28	416.29	417.83	414.20	417.11	406.90		417.98	417.48
GN-AP-MW-9	Downgradient	Mid-Lower Knox Dolomite	419.49	419.25	417.27	416.92	414.77	419.49	419.47	419.65	419.45	419.40	420.19	418.58	419.52	415.75		419.84	419.64
GN-AP-MW-10	Downgradient	Middle Knox Dolomite	419.79	419.50	418.98	418.44	417.24	419.95	420.14	420.11	420.16	420.16	420.52	419.58	420.91	418.03		420.44	420.26
GN-AP-MW-11	Downgradient	Middle Knox Dolomite	420.70	420.24	419.63	419.52	419.10	421.01	420.62	421.21	421.48	420.58	422.21	420.37	422.06	419.35		422.02	421.91
GN-AP-MW-12	Downgradient	Middle Knox Dolomite	424.82	424.54	424.12	424.12	422.77	424.85	424.79	424.81	424.78	424.78	Artesian	Artesian	Artesian	423.48		Artesian	Artesian
GN-AP-MW-13	Downgradient	Upper Knox Dolomite	423.76	423.84	423.74	423.79	423.26	423.89	423.75	423.71	Artesian	423.69	Artesian	Artesian	Artesian	Artesian		Artesian	Artesian
GN-AP-MW-14	Downgradient	Middle Knox Dolomite	399.19	399.25	399.07	399.53	399.84	401.55	399.86	399.88	400.50	399.27	399.96	399.88	399.71	399.42		401.33	400.86
GN-AP-MW-15R	Downgradient	Middle Knox Dolomite			398.45	398.39	398.37		398.91	399.06	399.14	398.90	399.42	398.74	399.02	397.75		399.57	397.79
GN-AP-MW-16	Downgradient	Upper Knox Dolomite	402.65	402.60	402.75	402.53	402.38	402.81	402.83	402.99	403.20	403.41	403.99	403.30	402.93	402.20		404.01	401.89
GN-AP-MW-17	Downgradient	Middle Knox Dolomite	407.55	407.64	407.51	407.54	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian	Artesian		Artesian	Artesian
GN-AP-MW-18	Downgradient	Middle Knox Dolomite	395.92	395.86	396.12	395.85	395.89	395.88	395.80	395.88	395.96	396.08	396.43	395.86	396.19	395.96		398.18	397.21
GN-AP-MW-19	Downgradient	Middle Knox Dolomite	412.84	412.24	412.06	412.02	411.25	412.47	412.81	413.75	413.96	412.51	414.20	412.80	412.99	409.86		415.86	414.36
GN-AP-MW-20	Downgradient	Middle Knox Dolomite	398.36	398.40	398.40	398.14	397.79	398.28	398.11	398.21	398.21	398.40	398.83	398.06	398.57	397.99		400.20	398.59
GN-AP-MW-21	Downgradient	Upper Knox Dolomite			416.30	416.14	415.60	418.34	417.54	418.62	419.16	417.91	419.93	417.20	417.81	413.50		420.14	418.89
GN-AP-MW-22	Downgradient	Upper Knox Dolomite			416.70	416.55	415.59	419.65	418.52	420.59	421.65	418.89	423.34	418.13	418.91	413.36		423.61	422.23
GN-AP-MW-17SV	Vertical Delineation	Upper Knox Dolomite													398.54	398.50		399.87	398.15
GN-AP-MW-20SV	Vertical Delineation	Upper Knox Dolomite													396.32	396.02		398.23	396.50
GN-AP-MW-20V	Vertical Delineation	Mid-Lower Knox Dolomite													399.13	398.55		400.72	398.95
GN-AP-MW-17V	Vertical Delineation	Middle Knox Dolomite													404.95	Artesian		404.95	403.83
GN-AP-MW-16V	Vertical Delineation	Mid-Lower Knox Dolomite													415.81	413.41		413.48	410.39
GN-AP-MW-23D	Vertical Delineation	Lower Knox Dolomite													419.35	413.44		425.61	423.43

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.



Appendix B. Historical Groundwater Elevations Summary

Plant Gaston Ash Pond

03/28/2016 - 07/17/2023

Well	Hydraulic Location	Geologic Unit	Measure Date						
			07/20/20	03/29/21	09/20/21	04/18/22	08/29/22	01/23/23	07/17/23
GN-AP-MW-3	Upgradient	Middle Knox Dolomite	426.85	430.50	429.35	429.37	424.82	426.25	425.66
GN-AP-MW-38	Upgradient	Middle Knox Dolomite			397.70	399.35	395.47	399.38	396.35
GN-AP-MW-39	Upgradient	Wash Creek Slate			397.19	399.51	395.73	401.43	396.12
GN-AP-MW-40	Upgradient	Middle Knox Dolomite			397.39	400.42	396.12	400.18	396.64
GN-AP-MW-41	Upgradient	Middle Knox Dolomite			397.28	399.94	396.06	399.77	396.52
GN-AP-MW-42	Upgradient	Middle Knox Dolomite			397.08	399.85	396.05	399.59	396.41
GN-AP-MW-4	Downgradient	Middle Knox Dolomite	421.16	431.37	426.36	428.89	413.49	430.49	418.38
GN-AP-MW-5	Downgradient	Upper Knox Dolomite	414.32	422.61	421.35	420.22	411.01	424.02	414.27
GN-AP-MW-6	Downgradient	Upper Knox Dolomite	412.97	417.63	417.29	416.85	411.02	418.00	413.04
GN-AP-MW-7	Downgradient	Upper Knox Dolomite	411.23	416.10	415.28	416.44	410.52	416.16	413.46
GN-AP-MW-8	Downgradient	Middle Knox Dolomite	413.37	417.56	417.35	417.76	412.29	417.42	415.91
GN-AP-MW-9	Downgradient	Mid-Lower Knox Dolomite	418.01	419.74	419.76	419.91	418.26	419.87	419.13
GN-AP-MW-10	Downgradient	Middle Knox Dolomite	419.25	420.64	421.00	421.04	419.11	420.73	420.03
GN-AP-MW-11	Downgradient	Middle Knox Dolomite	420.20	421.90	422.18	422.40	420.07	422.25	420.95
GN-AP-MW-12	Downgradient	Middle Knox Dolomite	Artesian	Artesian	Artesian	Artesian	424.16	Artesian	Artesian
GN-AP-MW-13	Downgradient	Upper Knox Dolomite	Artesian	423.20	Artesian	Artesian	421.78	Artesian	423.01
GN-AP-MW-14	Downgradient	Middle Knox Dolomite	399.95	400.32	400.71	399.91	399.29	399.74	399.38
GN-AP-MW-15R	Downgradient	Middle Knox Dolomite	396.24	397.66	395.58	396.38	395.06	396.22	395.41
GN-AP-MW-16	Downgradient	Upper Knox Dolomite	400.96	402.30	400.06	399.87	398.62	399.32	399.07
GN-AP-MW-17	Downgradient	Middle Knox Dolomite	Artesian	406.30	404.59	403.49	401.85	402.36	401.64
GN-AP-MW-18	Downgradient	Middle Knox Dolomite	395.97	398.51	395.92	396.11	395.40	396.04	395.68
GN-AP-MW-19	Downgradient	Middle Knox Dolomite	411.22	414.09	413.40	414.75	410.90	413.99	413.54
GN-AP-MW-20	Downgradient	Middle Knox Dolomite	398.07	400.53	397.69	397.86	396.35	397.82	397.40
GN-AP-MW-21	Downgradient	Upper Knox Dolomite	412.83	417.80	417.37	417.02	410.40	418.18	412.54
GN-AP-MW-22	Downgradient	Upper Knox Dolomite	413.50	420.40	419.59	418.48	410.36	421.00	413.23
GN-AP-MW-17SV	Vertical Delineation	Upper Knox Dolomite	397.81	399.70	397.81	397.59	396.81	397.40	397.20
GN-AP-MW-20SV	Vertical Delineation	Upper Knox Dolomite	396.06	398.73	396.28	396.47	395.72	396.33	395.93
GN-AP-MW-20V	Vertical Delineation	Mid-Lower Knox Dolomite	398.44	400.84	398.07	398.23	397.36	398.13	397.69
GN-AP-MW-17V	Vertical Delineation	Middle Knox Dolomite	402.79	403.24	401.49	400.79	399.45	400.26	400.07
GN-AP-MW-16V	Vertical Delineation	Mid-Lower Knox Dolomite	407.92	406.78	405.34	404.16	402.17	403.20	401.32
GN-AP-MW-23D	Vertical Delineation	Lower Knox Dolomite	413.88	422.06	420.88	420.17	411.09	423.87	414.18

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.



Appendix B. Historical Groundwater Elevations Summary

Plant Gaston Ash Pond
03/28/2016 - 07/17/2023

Well	Hydraulic Location	Geologic Unit	Measure Date																	
			03/28/16	05/16/16	07/11/16	09/12/16	11/14/16	02/27/17	05/22/17	06/19/17	08/14/17	01/09/18	04/16/18	10/01/18	04/01/19	09/16/19	10/22/19	02/17/20	04/29/20	
GN-AP-MW-32V	Vertical Delineation	Mid-Lower Knox Dolomite															420.59	422.87	419.38	
GN-AP-MW-33V	Vertical Delineation	Mid-Lower Knox Dolomite															419.19	421.43		
GN-AP-MW-34V	Vertical Delineation	Mid-Lower Knox Dolomite															413.19	411.00	409.25	
GN-AP-MW-31VR	Vertical Delineation	Mid-Lower Knox Dolomite																		396.69
GN-AP-MW-36V	Vertical Delineation	Lower Knox Dolomite																		419.58
GN-AP-MW-35V	Vertical Delineation	Lower Knox Dolomite																		404.07
GN-AP-MW-37V	Vertical Delineation	Lower Knox Dolomite																		417.12
GN-AP-MW-29H	Horizontal Delineation	Middle Knox Dolomite														406.82	Artesian		Artesian	Artesian
GN-AP-MW-28H	Horizontal Delineation	Middle Knox Dolomite														408.28	406.70		407.70	405.10
GN-AP-MW-23S	Horizontal Delineation	Upper Knox Dolomite														419.92	413.85		426.02	424.61
GN-AP-MW-26	Horizontal Delineation	Upper Knox Dolomite														416.69	413.14		417.84	417.19
GN-AP-MW-27	Horizontal Delineation	Upper Knox Dolomite														419.95	413.86		426.43	424.52
GN-AP-MW-30H	Horizontal Delineation	Upper Knox Dolomite															395.58	398.29	396.08	
GN-AP-MW-1	Abandoned	Mid-Lower Knox Dolomite	432.03	431.33	430.58	430.48	429.35	431.57	431.52	432.42	432.63	431.16	432.58	431.30	432.14	428.36				458.15
GN-AP-MW-2	Abandoned	Middle Knox Dolomite	432.56	432.71	432.69	432.59	432.16	432.74	433.33	433.55	433.62	433.19	433.75	433.85	431.74	429.25				

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.

Appendix B. Historical Groundwater Elevations Summary

Plant Gaston Ash Pond
03/28/2016 - 07/17/2023

Well	Hydraulic Location	Geologic Unit	Measure Date						
			07/20/20	03/29/21	09/20/21	04/18/22	08/29/22	01/23/23	07/17/23
GN-AP-MW-32V	Vertical Delineation	Mid-Lower Knox Dolomite	417.62	411.74	411.11	409.06	406.18	407.61	407.69
GN-AP-MW-33V	Vertical Delineation	Mid-Lower Knox Dolomite	417.11	415.49	414.10	411.88	409.54	410.68	410.80
GN-AP-MW-34V	Vertical Delineation	Mid-Lower Knox Dolomite	407.30	405.71	402.16	402.42	400.82	401.86	401.62
GN-AP-MW-31VR	Vertical Delineation	Mid-Lower Knox Dolomite	396.43	397.91	395.95	396.37	395.65	396.54	395.64
GN-AP-MW-36V	Vertical Delineation	Lower Knox Dolomite	417.39	415.64	413.69	411.74	409.59	410.61	410.58
GN-AP-MW-35V	Vertical Delineation	Lower Knox Dolomite	402.18	404.33	401.57	401.53	400.14	401.08	400.68
GN-AP-MW-37V	Vertical Delineation	Lower Knox Dolomite	413.35	410.38	409.54	408.94	406.22	407.44	406.73
GN-AP-MW-29H	Horizontal Delineation	Middle Knox Dolomite	Artesian	405.87	403.81	402.97	400.23	402.18	402.25
GN-AP-MW-28H	Horizontal Delineation	Middle Knox Dolomite	403.59	403.79	401.94	401.27	399.78	400.67	400.47
GN-AP-MW-23S	Horizontal Delineation	Upper Knox Dolomite	414.27	422.68	421.54	420.42	411.11	424.30	414.29
GN-AP-MW-26	Horizontal Delineation	Upper Knox Dolomite	412.83	417.21	416.58	416.61	411.20	417.72	413.25
GN-AP-MW-27	Horizontal Delineation	Upper Knox Dolomite	413.72	422.87	421.74	420.67	411.29	424.88	414.50
GN-AP-MW-30H	Horizontal Delineation	Upper Knox Dolomite	395.76	398.48	395.85	396.26	395.47	396.33	395.59
GN-AP-MW-1	Abandoned	Mid-Lower Knox Dolomite	458.23	457.47	457.88				
GN-AP-MW-2	Abandoned	Middle Knox Dolomite							

Notes:
(1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.

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

2023 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 well MW-23D.

Vehicle traffic caused dusty conditions when pumping and sampling well MW-32V.

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.

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

2023 MNA Request 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).

Field quality control procedures were performed as follows:

- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17SV	COND	Conductivity	1/24/2023 14:05	1307.26	uS/cm
GN-AP-MW-17SV	DO	DO	1/24/2023 14:05	0.08	mg/L
GN-AP-MW-17SV	DTW	Depth to Water Detail	1/24/2023 14:05	10.48	ft
GN-AP-MW-17SV	ORP	Oxidation Reduction Potention	1/24/2023 14:05	-118.07	mv
GN-AP-MW-17SV	PH	pH	1/24/2023 14:05	7.88	SU
GN-AP-MW-17SV	TEMP	Temperature	1/24/2023 14:05	20.45	C
GN-AP-MW-17SV	TURB	Turbidity	1/24/2023 14:05	14.4	NTU
GN-AP-MW-17SV	COND	Conductivity	1/24/2023 14:10	1306.92	uS/cm
GN-AP-MW-17SV	DO	DO	1/24/2023 14:10	0.06	mg/L
GN-AP-MW-17SV	DTW	Depth to Water Detail	1/24/2023 14:10	10.48	ft
GN-AP-MW-17SV	ORP	Oxidation Reduction Potention	1/24/2023 14:10	-109.59	mv
GN-AP-MW-17SV	PH	pH	1/24/2023 14:10	7.66	SU
GN-AP-MW-17SV	TEMP	Temperature	1/24/2023 14:10	20.53	C
GN-AP-MW-17SV	TURB	Turbidity	1/24/2023 14:10	7.69	NTU
GN-AP-MW-17SV	COND	Conductivity	1/24/2023 14:15	1304.58	uS/cm
GN-AP-MW-17SV	DO	DO	1/24/2023 14:15	0.06	mg/L
GN-AP-MW-17SV	DTW	Depth to Water Detail	1/24/2023 14:15	10.48	ft
GN-AP-MW-17SV	ORP	Oxidation Reduction Potention	1/24/2023 14:15	-108.38	mv
GN-AP-MW-17SV	PH	pH	1/24/2023 14:15	7.63	SU
GN-AP-MW-17SV	TEMP	Temperature	1/24/2023 14:15	20.48	C
GN-AP-MW-17SV	TURB	Turbidity	1/24/2023 14:15	3.58	NTU
GN-AP-MW-17SV	COND	Conductivity	1/24/2023 14:20	1301.29	uS/cm
GN-AP-MW-17SV	DO	DO	1/24/2023 14:20	0.05	mg/L
GN-AP-MW-17SV	DTW	Depth to Water Detail	1/24/2023 14:20	10.48	ft
GN-AP-MW-17SV	ORP	Oxidation Reduction Potention	1/24/2023 14:20	-104.17	mv
GN-AP-MW-17SV	PH	pH	1/24/2023 14:20	7.55	SU
GN-AP-MW-17SV	SULFIDE	Sulfide	1/24/2023 14:20	0	mg/L
GN-AP-MW-17SV	TEMP	Temperature	1/24/2023 14:20	20.54	C
GN-AP-MW-17SV	TURB	Turbidity	1/24/2023 14:20	2.94	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-18	COND	Conductivity	1/24/2023 13:09	824.51	uS/cm
GN-AP-MW-18	DO	DO	1/24/2023 13:09	0.09	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	1/24/2023 13:09	20.3	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	1/24/2023 13:09	-1.62	mv
GN-AP-MW-18	PH	pH	1/24/2023 13:09	6.81	SU
GN-AP-MW-18	TEMP	Temperature	1/24/2023 13:09	19.37	C
GN-AP-MW-18	TURB	Turbidity	1/24/2023 13:09	2.44	NTU
GN-AP-MW-18	COND	Conductivity	1/24/2023 13:14	866.11	uS/cm
GN-AP-MW-18	DO	DO	1/24/2023 13:14	0.09	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	1/24/2023 13:14	20.3	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	1/24/2023 13:14	0.26	mv
GN-AP-MW-18	PH	pH	1/24/2023 13:14	6.82	SU
GN-AP-MW-18	TEMP	Temperature	1/24/2023 13:14	19.29	C
GN-AP-MW-18	TURB	Turbidity	1/24/2023 13:14	2.69	NTU
GN-AP-MW-18	COND	Conductivity	1/24/2023 13:19	891.15	uS/cm
GN-AP-MW-18	DO	DO	1/24/2023 13:19	0.07	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	1/24/2023 13:19	20.3	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	1/24/2023 13:19	-1.88	mv
GN-AP-MW-18	PH	pH	1/24/2023 13:19	6.83	SU
GN-AP-MW-18	TEMP	Temperature	1/24/2023 13:19	19.36	C
GN-AP-MW-18	TURB	Turbidity	1/24/2023 13:19	2.37	NTU
GN-AP-MW-18	COND	Conductivity	1/24/2023 13:24	904.27	uS/cm
GN-AP-MW-18	DO	DO	1/24/2023 13:24	0.07	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	1/24/2023 13:24	20.3	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	1/24/2023 13:24	-5.03	mv
GN-AP-MW-18	PH	pH	1/24/2023 13:24	6.84	SU
GN-AP-MW-18	TEMP	Temperature	1/24/2023 13:24	19.39	C
GN-AP-MW-18	TURB	Turbidity	1/24/2023 13:24	2.1	NTU
GN-AP-MW-18	COND	Conductivity	1/24/2023 13:29	913.8	uS/cm
GN-AP-MW-18	DO	DO	1/24/2023 13:29	0.07	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	1/24/2023 13:29	20.3	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	1/24/2023 13:29	-8.02	mv
GN-AP-MW-18	PH	pH	1/24/2023 13:29	6.84	SU
GN-AP-MW-18	SULFIDE	Sulfide	1/24/2023 13:29	0	mg/L
GN-AP-MW-18	TEMP	Temperature	1/24/2023 13:29	19.38	C
GN-AP-MW-18	TURB	Turbidity	1/24/2023 13:29	2.12	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	COND	Conductivity	1/25/2023 13:52	413.18	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 13:52	0.09	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 13:52	7.09	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 13:52	-196.29	mv
GN-AP-MW-19	PH	pH	1/25/2023 13:52	7.72	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 13:52	17.85	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 13:52	15.1	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 13:57	413.16	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 13:57	0.06	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 13:57	12.81	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 13:57	-202.17	mv
GN-AP-MW-19	PH	pH	1/25/2023 13:57	7.71	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 13:57	18	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 13:57	12.1	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:02	413.54	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:02	0.05	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:02	17.72	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:02	-203.71	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:02	7.68	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:02	18.09	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:02	13.3	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:07	412.82	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:07	0.04	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:07	21.81	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:07	-206.28	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:07	7.68	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:07	18.2	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:07	10.24	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:12	414.27	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:12	0.04	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:12	21.81	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:12	-208.25	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:12	7.69	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:12	18.51	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:12	6.98	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:17	413.69	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:17	0.04	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:17	21.81	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:17	-205.36	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:17	7.69	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:17	18.47	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:17	7.21	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:22	412.95	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:22	0.17	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:22	36.62	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:22	-193.85	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:22	7.68	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:22	18.5	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:22	5.67	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:27	411.84	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	DO	DO	1/25/2023 14:27	0.92	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:27	40.69	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:27	-176.86	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:27	7.69	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:27	18.52	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:27	6.54	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:32	410.35	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:32	2.09	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:32	44.38	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:32	-161.58	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:32	7.72	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:32	18.41	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:32	5.21	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:37	409.91	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:37	2.81	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:37	48.54	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:37	-152.38	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:37	7.74	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:37	18.37	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:37	4.98	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:42	407.11	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:42	2.93	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:42	48.71	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:42	-143.26	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:42	7.73	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:42	15.84	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:42	5.18	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:47	412.64	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:47	1.72	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:47	48.82	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:47	-151.3	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:47	7.68	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:47	15.56	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:47	4.33	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:52	414.32	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:52	0.78	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:52	48.89	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:52	-165.02	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:52	7.68	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:52	15.33	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:52	2.95	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 14:57	413.23	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 14:57	0.7	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 14:57	48.95	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 14:57	-167.37	mv
GN-AP-MW-19	PH	pH	1/25/2023 14:57	7.69	SU
GN-AP-MW-19	TEMP	Temperature	1/25/2023 14:57	15.33	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 14:57	2.86	NTU
GN-AP-MW-19	COND	Conductivity	1/25/2023 15:02	412.96	uS/cm
GN-AP-MW-19	DO	DO	1/25/2023 15:02	0.7	mg/L

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	DTW	Depth to Water Detail	1/25/2023 15:02	49.03	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	1/25/2023 15:02	-166.68	mv
GN-AP-MW-19	PH	pH	1/25/2023 15:02	7.69	SU
GN-AP-MW-19	SULFIDE	Sulfide	1/25/2023 15:02	0	mg/L
GN-AP-MW-19	TEMP	Temperature	1/25/2023 15:02	15.49	C
GN-AP-MW-19	TURB	Turbidity	1/25/2023 15:02	2.92	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20	COND	Conductivity	1/24/2023 12:14	1192.58	uS/cm
GN-AP-MW-20	DO	DO	1/24/2023 12:14	0.59	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	1/24/2023 12:14	10.54	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	1/24/2023 12:14	-104.07	mv
GN-AP-MW-20	PH	pH	1/24/2023 12:14	8.01	SU
GN-AP-MW-20	TEMP	Temperature	1/24/2023 12:14	18.45	C
GN-AP-MW-20	TURB	Turbidity	1/24/2023 12:14	4.69	NTU
GN-AP-MW-20	COND	Conductivity	1/24/2023 12:19	1190.9	uS/cm
GN-AP-MW-20	DO	DO	1/24/2023 12:19	0.34	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	1/24/2023 12:19	10.72	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	1/24/2023 12:19	-101.19	mv
GN-AP-MW-20	PH	pH	1/24/2023 12:19	8	SU
GN-AP-MW-20	TEMP	Temperature	1/24/2023 12:19	18.7	C
GN-AP-MW-20	TURB	Turbidity	1/24/2023 12:19	3.12	NTU
GN-AP-MW-20	COND	Conductivity	1/24/2023 12:24	1187.82	uS/cm
GN-AP-MW-20	DO	DO	1/24/2023 12:24	0.25	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	1/24/2023 12:24	10.81	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	1/24/2023 12:24	-102.12	mv
GN-AP-MW-20	PH	pH	1/24/2023 12:24	7.99	SU
GN-AP-MW-20	TEMP	Temperature	1/24/2023 12:24	18.76	C
GN-AP-MW-20	TURB	Turbidity	1/24/2023 12:24	3.02	NTU
GN-AP-MW-20	COND	Conductivity	1/24/2023 12:29	1182.38	uS/cm
GN-AP-MW-20	DO	DO	1/24/2023 12:29	0.2	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	1/24/2023 12:29	10.89	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	1/24/2023 12:29	-100.02	mv
GN-AP-MW-20	PH	pH	1/24/2023 12:29	7.98	SU
GN-AP-MW-20	SULFIDE	Sulfide	1/24/2023 12:29	0	mg/L
GN-AP-MW-20	TEMP	Temperature	1/24/2023 12:29	18.67	C
GN-AP-MW-20	TURB	Turbidity	1/24/2023 12:29	3.14	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 10:48	864.47	uS/cm
GN-AP-MW-20SV	DO	DO	1/24/2023 10:48	1.08	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 10:48	10.39	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 10:48	-63.15	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 10:48	6.96	SU
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 10:48	19.42	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 10:48	73.8	NTU
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 10:53	882.5	uS/cm
GN-AP-MW-20SV	DO	DO	1/24/2023 10:53	0.75	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 10:53	11.41	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 10:53	-72.06	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 10:53	6.96	SU
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 10:53	19.04	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 10:53	71.2	NTU
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 10:58	911.41	uS/cm
GN-AP-MW-20SV	DO	DO	1/24/2023 10:58	0.56	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 10:58	11.73	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 10:58	-81.17	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 10:58	7.01	SU
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 10:58	19.16	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 10:58	34.7	NTU
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 11:03	927.98	uS/cm
GN-AP-MW-20SV	DO	DO	1/24/2023 11:03	0.37	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 11:03	11.88	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 11:03	-95.44	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 11:03	7.04	SU
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 11:03	19.28	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 11:03	19.6	NTU
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 11:08	936.63	uS/cm
GN-AP-MW-20SV	DO	DO	1/24/2023 11:08	0.3	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 11:08	11.9	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 11:08	-102.86	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 11:08	7.04	SU
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 11:08	19.26	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 11:08	14.7	NTU
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 11:13	946.56	uS/cm
GN-AP-MW-20SV	DO	DO	1/24/2023 11:13	0.26	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 11:13	11.9	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 11:13	-109.26	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 11:13	7.06	SU
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 11:13	19.27	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 11:13	11.6	NTU
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 11:18	950.61	uS/cm
GN-AP-MW-20SV	DO	DO	1/24/2023 11:18	0.21	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 11:18	11.9	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 11:18	-113.9	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 11:18	7.07	SU
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 11:18	19.32	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 11:18	9.81	NTU
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 11:23	952.6	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20SV	DO	DO	1/24/2023 11:23	0.19	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 11:23	11.9	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 11:23	-117.01	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 11:23	7.08	SU
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 11:23	19.33	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 11:23	7.7	NTU
GN-AP-MW-20SV	COND	Conductivity	1/24/2023 11:28	949.7	uS/cm
GN-AP-MW-20SV	DO	DO	1/24/2023 11:28	0.16	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	1/24/2023 11:28	11.9	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	1/24/2023 11:28	-118.22	mv
GN-AP-MW-20SV	PH	pH	1/24/2023 11:28	7.07	SU
GN-AP-MW-20SV	SULFIDE	Sulfide	1/24/2023 11:28	0	mg/L
GN-AP-MW-20SV	TEMP	Temperature	1/24/2023 11:28	19.36	C
GN-AP-MW-20SV	TURB	Turbidity	1/24/2023 11:28	6.86	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20V	COND	Conductivity	1/24/2023 9:23	1029.77	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 9:23	0.2	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 9:23	12.38	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 9:23	-147.61	mv
GN-AP-MW-20V	PH	pH	1/24/2023 9:23	8.11	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 9:23	18.11	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 9:23	22.3	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 9:28	1016.42	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 9:28	0.16	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 9:28	13.34	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 9:28	-165.23	mv
GN-AP-MW-20V	PH	pH	1/24/2023 9:28	8.11	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 9:28	18.14	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 9:28	17.6	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 9:33	1020.97	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 9:33	0.15	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 9:33	14.51	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 9:33	-172.59	mv
GN-AP-MW-20V	PH	pH	1/24/2023 9:33	8.12	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 9:33	18.26	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 9:33	13	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 9:38	1022.3	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 9:38	0.14	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 9:38	15.46	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 9:38	-176.85	mv
GN-AP-MW-20V	PH	pH	1/24/2023 9:38	8.12	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 9:38	18.3	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 9:38	8.97	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 9:43	1025.22	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 9:43	0.13	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 9:43	16.04	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 9:43	-179.31	mv
GN-AP-MW-20V	PH	pH	1/24/2023 9:43	8.12	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 9:43	18.32	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 9:43	8.93	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 9:48	1029.08	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 9:48	0.14	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 9:48	16.71	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 9:48	-180.46	mv
GN-AP-MW-20V	PH	pH	1/24/2023 9:48	8.12	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 9:48	18.35	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 9:48	8.55	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 9:53	1028.71	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 9:53	0.13	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 9:53	17.02	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 9:53	-182.37	mv
GN-AP-MW-20V	PH	pH	1/24/2023 9:53	8.12	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 9:53	18.48	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 9:53	7.86	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 9:58	1030.51	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20V	DO	DO	1/24/2023 9:58	0.13	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 9:58	17.28	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 9:58	-183.22	mv
GN-AP-MW-20V	PH	pH	1/24/2023 9:58	8.13	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 9:58	18.47	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 9:58	7.75	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 10:03	1032.63	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 10:03	0.13	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 10:03	17.39	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 10:03	-183.56	mv
GN-AP-MW-20V	PH	pH	1/24/2023 10:03	8.11	SU
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 10:03	18.58	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 10:03	8.51	NTU
GN-AP-MW-20V	COND	Conductivity	1/24/2023 10:08	1033.5	uS/cm
GN-AP-MW-20V	DO	DO	1/24/2023 10:08	0.13	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	1/24/2023 10:08	17.53	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	1/24/2023 10:08	-184.51	mv
GN-AP-MW-20V	PH	pH	1/24/2023 10:08	8.13	SU
GN-AP-MW-20V	SULFIDE	Sulfide	1/24/2023 10:08	0	mg/L
GN-AP-MW-20V	TEMP	Temperature	1/24/2023 10:08	18.58	C
GN-AP-MW-20V	TURB	Turbidity	1/24/2023 10:08	8.24	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-33V	COND	Conductivity	1/25/2023 9:44	578.58	uS/cm
GN-AP-MW-33V	DO	DO	1/25/2023 9:44	0.55	mg/L
GN-AP-MW-33V	DTW	Depth to Water Detail	1/25/2023 9:44	47.21	ft
GN-AP-MW-33V	ORP	Oxidation Reduction Potention	1/25/2023 9:44	-159	mv
GN-AP-MW-33V	PH	pH	1/25/2023 9:44	7.76	SU
GN-AP-MW-33V	TEMP	Temperature	1/25/2023 9:44	15.71	C
GN-AP-MW-33V	TURB	Turbidity	1/25/2023 9:44	9.63	NTU
GN-AP-MW-33V	COND	Conductivity	1/25/2023 9:59	593.01	uS/cm
GN-AP-MW-33V	DO	DO	1/25/2023 9:59	0.44	mg/L
GN-AP-MW-33V	DTW	Depth to Water Detail	1/25/2023 9:59	50.23	ft
GN-AP-MW-33V	ORP	Oxidation Reduction Potention	1/25/2023 9:59	-145.1	mv
GN-AP-MW-33V	PH	pH	1/25/2023 9:59	7.71	SU
GN-AP-MW-33V	TEMP	Temperature	1/25/2023 9:59	15.17	C
GN-AP-MW-33V	TURB	Turbidity	1/25/2023 9:59	12.31	NTU
GN-AP-MW-33V	COND	Conductivity	1/25/2023 10:13	586.13	uS/cm
GN-AP-MW-33V	DO	DO	1/25/2023 10:13	0.38	mg/L
GN-AP-MW-33V	DTW	Depth to Water Detail	1/25/2023 10:13	50.23	ft
GN-AP-MW-33V	ORP	Oxidation Reduction Potention	1/25/2023 10:13	-175.24	mv
GN-AP-MW-33V	PH	pH	1/25/2023 10:13	7.72	SU
GN-AP-MW-33V	SULFIDE	Sulfide	1/25/2023 10:13	6	mg/L
GN-AP-MW-33V	TEMP	Temperature	1/25/2023 10:13	15.48	C
GN-AP-MW-33V	TURB	Turbidity	1/25/2023 10:13	9.21	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-36V	COND	Conductivity	1/25/2023 11:40	1091.5	uS/cm
GN-AP-MW-36V	DO	DO	1/25/2023 11:40	0.06	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	1/25/2023 11:40	44.42	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	1/25/2023 11:40	-327.9	mv
GN-AP-MW-36V	PH	pH	1/25/2023 11:40	8.23	SU
GN-AP-MW-36V	TEMP	Temperature	1/25/2023 11:40	18.42	C
GN-AP-MW-36V	TURB	Turbidity	1/25/2023 11:40	2.19	NTU
GN-AP-MW-36V	COND	Conductivity	1/25/2023 11:45	1073.77	uS/cm
GN-AP-MW-36V	DO	DO	1/25/2023 11:45	0.08	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	1/25/2023 11:45	45.56	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	1/25/2023 11:45	-299.1	mv
GN-AP-MW-36V	PH	pH	1/25/2023 11:45	8.12	SU
GN-AP-MW-36V	TEMP	Temperature	1/25/2023 11:45	18.49	C
GN-AP-MW-36V	TURB	Turbidity	1/25/2023 11:45	2.13	NTU
GN-AP-MW-36V	COND	Conductivity	1/25/2023 11:50	1074.95	uS/cm
GN-AP-MW-36V	DO	DO	1/25/2023 11:50	0.11	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	1/25/2023 11:50	46.36	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	1/25/2023 11:50	-287.96	mv
GN-AP-MW-36V	PH	pH	1/25/2023 11:50	8.1	SU
GN-AP-MW-36V	TEMP	Temperature	1/25/2023 11:50	18.51	C
GN-AP-MW-36V	TURB	Turbidity	1/25/2023 11:50	1.88	NTU
GN-AP-MW-36V	COND	Conductivity	1/25/2023 11:55	1066.66	uS/cm
GN-AP-MW-36V	DO	DO	1/25/2023 11:55	0.21	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	1/25/2023 11:55	46.62	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	1/25/2023 11:55	-280.59	mv
GN-AP-MW-36V	PH	pH	1/25/2023 11:55	8.12	SU
GN-AP-MW-36V	TEMP	Temperature	1/25/2023 11:55	15.31	C
GN-AP-MW-36V	TURB	Turbidity	1/25/2023 11:55	1.56	NTU
GN-AP-MW-36V	COND	Conductivity	1/25/2023 12:00	1065.82	uS/cm
GN-AP-MW-36V	DO	DO	1/25/2023 12:00	0.21	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	1/25/2023 12:00	46.71	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	1/25/2023 12:00	-278.75	mv
GN-AP-MW-36V	PH	pH	1/25/2023 12:00	8.11	SU
GN-AP-MW-36V	TEMP	Temperature	1/25/2023 12:00	15.35	C
GN-AP-MW-36V	TURB	Turbidity	1/25/2023 12:00	1.92	NTU
GN-AP-MW-36V	COND	Conductivity	1/25/2023 12:05	1068.15	uS/cm
GN-AP-MW-36V	DO	DO	1/25/2023 12:05	0.31	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	1/25/2023 12:05	46.8	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	1/25/2023 12:05	-274.7	mv
GN-AP-MW-36V	PH	pH	1/25/2023 12:05	8.12	SU
GN-AP-MW-36V	SULFIDE	Sulfide	1/25/2023 12:05	3	mg/L
GN-AP-MW-36V	TEMP	Temperature	1/25/2023 12:05	15.04	C
GN-AP-MW-36V	TURB	Turbidity	1/25/2023 12:05	1.46	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:01	378.76	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:01	0.17	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:01	3.4	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:01	-126.59	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:01	7.57	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:01	18.12	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:01	1.37	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:06	377.14	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:06	0.12	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:06	5.48	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:06	-127.17	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:06	7.54	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:06	18.28	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:06	1.3	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:11	376.78	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:11	0.1	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:11	7.44	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:11	-127.07	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:11	7.55	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:11	18.5	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:11	1.21	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:16	376.62	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:16	0.1	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:16	8.96	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:16	-126.47	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:16	7.55	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:16	18.53	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:16	2.18	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:21	375.67	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:21	0.09	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:21	10.12	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:21	-126.02	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:21	7.56	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:21	18.58	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:21	1.7	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:26	373.61	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:26	0.11	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:26	11.06	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:26	-123.54	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:26	7.52	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:26	18.6	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:26	1.64	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:31	374.47	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:31	0.11	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:31	11.38	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:31	-123.76	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:31	7.55	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:31	18.64	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:31	1.88	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:36	374.11	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-13	DO	DO	2/1/2023 14:36	0.11	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:36	11.56	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:36	-123.45	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:36	7.55	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:36	18.62	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:36	1.4	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:41	371.99	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:41	0.12	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:41	11.73	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:41	-121.73	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:41	7.52	SU
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:41	18.74	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:41	1.26	NTU
GN-AP-MW-13	COND	Conductivity	2/1/2023 14:46	371.22	uS/cm
GN-AP-MW-13	DO	DO	2/1/2023 14:46	0.11	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	2/1/2023 14:46	11.82	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	2/1/2023 14:46	-123.17	mv
GN-AP-MW-13	PH	pH	2/1/2023 14:46	7.55	SU
GN-AP-MW-13	SULFIDE	Sulfide	2/1/2023 14:46	0	mg/L
GN-AP-MW-13	TEMP	Temperature	2/1/2023 14:46	18.79	C
GN-AP-MW-13	TURB	Turbidity	2/1/2023 14:46	1.43	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-16	COND	Conductivity	1/30/2023 11:56	786.68	uS/cm
GN-AP-MW-16	DO	DO	1/30/2023 11:56	0.18	mg/L
GN-AP-MW-16	DTW	Depth to Water Detail	1/30/2023 11:56	22.74	ft
GN-AP-MW-16	ORP	Oxidation Reduction Potention	1/30/2023 11:56	-134.86	mv
GN-AP-MW-16	PH	pH	1/30/2023 11:56	8.22	SU
GN-AP-MW-16	TEMP	Temperature	1/30/2023 11:56	20.32	C
GN-AP-MW-16	TURB	Turbidity	1/30/2023 11:56	27.8	NTU
GN-AP-MW-16	COND	Conductivity	1/30/2023 12:01	825.39	uS/cm
GN-AP-MW-16	DO	DO	1/30/2023 12:01	0.13	mg/L
GN-AP-MW-16	DTW	Depth to Water Detail	1/30/2023 12:01	22.74	ft
GN-AP-MW-16	ORP	Oxidation Reduction Potention	1/30/2023 12:01	-160.28	mv
GN-AP-MW-16	PH	pH	1/30/2023 12:01	8.15	SU
GN-AP-MW-16	TEMP	Temperature	1/30/2023 12:01	20.34	C
GN-AP-MW-16	TURB	Turbidity	1/30/2023 12:01	8.49	NTU
GN-AP-MW-16	COND	Conductivity	1/30/2023 12:06	844.38	uS/cm
GN-AP-MW-16	DO	DO	1/30/2023 12:06	0.11	mg/L
GN-AP-MW-16	DTW	Depth to Water Detail	1/30/2023 12:06	22.74	ft
GN-AP-MW-16	ORP	Oxidation Reduction Potention	1/30/2023 12:06	-163.95	mv
GN-AP-MW-16	PH	pH	1/30/2023 12:06	8.09	SU
GN-AP-MW-16	TEMP	Temperature	1/30/2023 12:06	20.36	C
GN-AP-MW-16	TURB	Turbidity	1/30/2023 12:06	4.43	NTU
GN-AP-MW-16	COND	Conductivity	1/30/2023 12:11	855.51	uS/cm
GN-AP-MW-16	DO	DO	1/30/2023 12:11	0.1	mg/L
GN-AP-MW-16	DTW	Depth to Water Detail	1/30/2023 12:11	22.74	ft
GN-AP-MW-16	ORP	Oxidation Reduction Potention	1/30/2023 12:11	-163.65	mv
GN-AP-MW-16	PH	pH	1/30/2023 12:11	8.04	SU
GN-AP-MW-16	SULFIDE	Sulfide	1/30/2023 12:11	0	mg/L
GN-AP-MW-16	TEMP	Temperature	1/30/2023 12:11	20.4	C
GN-AP-MW-16	TURB	Turbidity	1/30/2023 12:11	3.84	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-23D	COND	Conductivity	1/31/2023 8:01	576.31	uS/cm
GN-AP-MW-23D	DO	DO	1/31/2023 8:01	0.91	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	1/31/2023 8:01	7.51	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	1/31/2023 8:01	-239.37	mv
GN-AP-MW-23D	PH	pH	1/31/2023 8:01	7.94	SU
GN-AP-MW-23D	TEMP	Temperature	1/31/2023 8:01	17.17	C
GN-AP-MW-23D	TURB	Turbidity	1/31/2023 8:01	1.98	NTU
GN-AP-MW-23D	COND	Conductivity	1/31/2023 8:06	576.46	uS/cm
GN-AP-MW-23D	DO	DO	1/31/2023 8:06	0.8	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	1/31/2023 8:06	7.8	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	1/31/2023 8:06	-231.68	mv
GN-AP-MW-23D	PH	pH	1/31/2023 8:06	7.95	SU
GN-AP-MW-23D	TEMP	Temperature	1/31/2023 8:06	17.35	C
GN-AP-MW-23D	TURB	Turbidity	1/31/2023 8:06	2.07	NTU
GN-AP-MW-23D	COND	Conductivity	1/31/2023 8:11	578.12	uS/cm
GN-AP-MW-23D	DO	DO	1/31/2023 8:11	0.74	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	1/31/2023 8:11	7.96	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	1/31/2023 8:11	-229.91	mv
GN-AP-MW-23D	PH	pH	1/31/2023 8:11	7.96	SU
GN-AP-MW-23D	TEMP	Temperature	1/31/2023 8:11	17.43	C
GN-AP-MW-23D	TURB	Turbidity	1/31/2023 8:11	1.85	NTU
GN-AP-MW-23D	COND	Conductivity	1/31/2023 8:16	579.15	uS/cm
GN-AP-MW-23D	DO	DO	1/31/2023 8:16	0.71	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	1/31/2023 8:16	8.08	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	1/31/2023 8:16	-228.81	mv
GN-AP-MW-23D	PH	pH	1/31/2023 8:16	7.97	SU
GN-AP-MW-23D	SULFIDE	Sulfide	1/31/2023 8:16	1	mg/L
GN-AP-MW-23D	TEMP	Temperature	1/31/2023 8:16	17.47	C
GN-AP-MW-23D	TURB	Turbidity	1/31/2023 8:16	1.89	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-23S	COND	Conductivity	1/31/2023 10:31	376.9	uS/cm
GN-AP-MW-23S	DO	DO	1/31/2023 10:31	4.53	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	1/31/2023 10:31	7.71	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	1/31/2023 10:31	-8.72	mv
GN-AP-MW-23S	PH	pH	1/31/2023 10:31	7.1	SU
GN-AP-MW-23S	TEMP	Temperature	1/31/2023 10:31	18.52	C
GN-AP-MW-23S	TURB	Turbidity	1/31/2023 10:31	1.77	NTU
GN-AP-MW-23S	COND	Conductivity	1/31/2023 10:36	390.11	uS/cm
GN-AP-MW-23S	DO	DO	1/31/2023 10:36	4.12	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	1/31/2023 10:36	8.04	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	1/31/2023 10:36	-4.96	mv
GN-AP-MW-23S	PH	pH	1/31/2023 10:36	7.15	SU
GN-AP-MW-23S	TEMP	Temperature	1/31/2023 10:36	18.79	C
GN-AP-MW-23S	TURB	Turbidity	1/31/2023 10:36	1.68	NTU
GN-AP-MW-23S	COND	Conductivity	1/31/2023 10:41	399.63	uS/cm
GN-AP-MW-23S	DO	DO	1/31/2023 10:41	3.88	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	1/31/2023 10:41	8.14	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	1/31/2023 10:41	-3.8	mv
GN-AP-MW-23S	PH	pH	1/31/2023 10:41	7.19	SU
GN-AP-MW-23S	TEMP	Temperature	1/31/2023 10:41	18.9	C
GN-AP-MW-23S	TURB	Turbidity	1/31/2023 10:41	1.75	NTU
GN-AP-MW-23S	COND	Conductivity	1/31/2023 10:46	408.77	uS/cm
GN-AP-MW-23S	DO	DO	1/31/2023 10:46	3.63	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	1/31/2023 10:46	8.21	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	1/31/2023 10:46	-2.56	mv
GN-AP-MW-23S	PH	pH	1/31/2023 10:46	7.22	SU
GN-AP-MW-23S	TEMP	Temperature	1/31/2023 10:46	19.09	C
GN-AP-MW-23S	TURB	Turbidity	1/31/2023 10:46	1.89	NTU
GN-AP-MW-23S	COND	Conductivity	1/31/2023 10:51	407.06	uS/cm
GN-AP-MW-23S	DO	DO	1/31/2023 10:51	3.64	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	1/31/2023 10:51	8.24	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	1/31/2023 10:51	1	mv
GN-AP-MW-23S	PH	pH	1/31/2023 10:51	7.19	SU
GN-AP-MW-23S	SULFIDE	Sulfide	1/31/2023 10:51	0	mg/L
GN-AP-MW-23S	TEMP	Temperature	1/31/2023 10:51	19.21	C
GN-AP-MW-23S	TURB	Turbidity	1/31/2023 10:51	1.88	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-28H	COND	Conductivity	1/30/2023 13:34	482.73	uS/cm
GN-AP-MW-28H	DO	DO	1/30/2023 13:34	0.12	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	1/30/2023 13:34	14.84	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	1/30/2023 13:34	-162.31	mv
GN-AP-MW-28H	PH	pH	1/30/2023 13:34	8.35	SU
GN-AP-MW-28H	TEMP	Temperature	1/30/2023 13:34	20.27	C
GN-AP-MW-28H	TURB	Turbidity	1/30/2023 13:34	3.21	NTU
GN-AP-MW-28H	COND	Conductivity	1/30/2023 13:39	481.02	uS/cm
GN-AP-MW-28H	DO	DO	1/30/2023 13:39	0.13	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	1/30/2023 13:39	15.91	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	1/30/2023 13:39	-169.88	mv
GN-AP-MW-28H	PH	pH	1/30/2023 13:39	8.3	SU
GN-AP-MW-28H	TEMP	Temperature	1/30/2023 13:39	20.35	C
GN-AP-MW-28H	TURB	Turbidity	1/30/2023 13:39	1.5	NTU
GN-AP-MW-28H	COND	Conductivity	1/30/2023 13:44	482.34	uS/cm
GN-AP-MW-28H	DO	DO	1/30/2023 13:44	0.14	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	1/30/2023 13:44	16.21	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	1/30/2023 13:44	-171.94	mv
GN-AP-MW-28H	PH	pH	1/30/2023 13:44	8.28	SU
GN-AP-MW-28H	TEMP	Temperature	1/30/2023 13:44	20.22	C
GN-AP-MW-28H	TURB	Turbidity	1/30/2023 13:44	1.42	NTU
GN-AP-MW-28H	COND	Conductivity	1/30/2023 13:49	481.79	uS/cm
GN-AP-MW-28H	DO	DO	1/30/2023 13:49	0.14	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	1/30/2023 13:49	16.52	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	1/30/2023 13:49	-173.66	mv
GN-AP-MW-28H	PH	pH	1/30/2023 13:49	8.3	SU
GN-AP-MW-28H	TEMP	Temperature	1/30/2023 13:49	20.37	C
GN-AP-MW-28H	TURB	Turbidity	1/30/2023 13:49	1.32	NTU
GN-AP-MW-28H	COND	Conductivity	1/30/2023 13:54	481.37	uS/cm
GN-AP-MW-28H	DO	DO	1/30/2023 13:54	0.14	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	1/30/2023 13:54	16.64	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	1/30/2023 13:54	-173.93	mv
GN-AP-MW-28H	PH	pH	1/30/2023 13:54	8.31	SU
GN-AP-MW-28H	TEMP	Temperature	1/30/2023 13:54	20.37	C
GN-AP-MW-28H	TURB	Turbidity	1/30/2023 13:54	1.69	NTU
GN-AP-MW-28H	COND	Conductivity	1/30/2023 13:59	479.92	uS/cm
GN-AP-MW-28H	DO	DO	1/30/2023 13:59	0.14	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	1/30/2023 13:59	16.8	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	1/30/2023 13:59	-172.09	mv
GN-AP-MW-28H	PH	pH	1/30/2023 13:59	8.28	SU
GN-AP-MW-28H	SULFIDE	Sulfide	1/30/2023 13:59	0	mg/L
GN-AP-MW-28H	TEMP	Temperature	1/30/2023 13:59	20.43	C
GN-AP-MW-28H	TURB	Turbidity	1/30/2023 13:59	1.75	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-30H	COND	Conductivity	1/31/2023 14:15	922.55	uS/cm
GN-AP-MW-30H	DO	DO	1/31/2023 14:15	0.41	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	1/31/2023 14:15	41.76	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	1/31/2023 14:15	-123.34	mv
GN-AP-MW-30H	PH	pH	1/31/2023 14:15	7.18	SU
GN-AP-MW-30H	TEMP	Temperature	1/31/2023 14:15	19.22	C
GN-AP-MW-30H	TURB	Turbidity	1/31/2023 14:15	2.08	NTU
GN-AP-MW-30H	COND	Conductivity	1/31/2023 14:20	910.31	uS/cm
GN-AP-MW-30H	DO	DO	1/31/2023 14:20	0.68	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	1/31/2023 14:20	42.64	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	1/31/2023 14:20	-118	mv
GN-AP-MW-30H	PH	pH	1/31/2023 14:20	7.19	SU
GN-AP-MW-30H	TEMP	Temperature	1/31/2023 14:20	19.36	C
GN-AP-MW-30H	TURB	Turbidity	1/31/2023 14:20	1.86	NTU
GN-AP-MW-30H	COND	Conductivity	1/31/2023 14:25	826.95	uS/cm
GN-AP-MW-30H	DO	DO	1/31/2023 14:25	0.25	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	1/31/2023 14:25	43.46	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	1/31/2023 14:25	-111.84	mv
GN-AP-MW-30H	PH	pH	1/31/2023 14:25	7.15	SU
GN-AP-MW-30H	TEMP	Temperature	1/31/2023 14:25	19.3	C
GN-AP-MW-30H	TURB	Turbidity	1/31/2023 14:25	1.04	NTU
GN-AP-MW-30H	COND	Conductivity	1/31/2023 14:30	794.27	uS/cm
GN-AP-MW-30H	DO	DO	1/31/2023 14:30	0.21	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	1/31/2023 14:30	44.08	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	1/31/2023 14:30	-107.35	mv
GN-AP-MW-30H	PH	pH	1/31/2023 14:30	7.14	SU
GN-AP-MW-30H	TEMP	Temperature	1/31/2023 14:30	19.31	C
GN-AP-MW-30H	TURB	Turbidity	1/31/2023 14:30	1.12	NTU
GN-AP-MW-30H	COND	Conductivity	1/31/2023 14:35	773.69	uS/cm
GN-AP-MW-30H	DO	DO	1/31/2023 14:35	0.2	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	1/31/2023 14:35	44.2	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	1/31/2023 14:35	-102.64	mv
GN-AP-MW-30H	PH	pH	1/31/2023 14:35	7.14	SU
GN-AP-MW-30H	TEMP	Temperature	1/31/2023 14:35	19.33	C
GN-AP-MW-30H	TURB	Turbidity	1/31/2023 14:35	0.84	NTU
GN-AP-MW-30H	COND	Conductivity	1/31/2023 14:40	758.68	uS/cm
GN-AP-MW-30H	DO	DO	1/31/2023 14:40	0.21	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	1/31/2023 14:40	44.31	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	1/31/2023 14:40	-98.98	mv
GN-AP-MW-30H	PH	pH	1/31/2023 14:40	7.14	SU
GN-AP-MW-30H	SULFIDE	Sulfide	1/31/2023 14:40	0	mg/L
GN-AP-MW-30H	TEMP	Temperature	1/31/2023 14:40	19.34	C
GN-AP-MW-30H	TURB	Turbidity	1/31/2023 14:40	0.7	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-16V	COND	Conductivity	1/24/2023 9:47	573.57	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 9:47	1.1	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 9:47	20.72	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 9:47	97.84	mv
GN-AP-MW-16V	PH	pH	1/24/2023 9:47	8.37	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 9:47	18.16	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 9:47	9.03	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 9:52	569.71	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 9:52	0.55	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 9:52	20.72	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 9:52	-132.74	mv
GN-AP-MW-16V	PH	pH	1/24/2023 9:52	8.34	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 9:52	18.4	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 9:52	8.78	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 9:57	568.03	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 9:57	0.38	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 9:57	20.72	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 9:57	-158.23	mv
GN-AP-MW-16V	PH	pH	1/24/2023 9:57	8.29	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 9:57	18.48	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 9:57	7.97	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 10:02	567.11	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 10:02	0.33	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 10:02	20.72	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 10:02	-163.85	mv
GN-AP-MW-16V	PH	pH	1/24/2023 10:02	8.27	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 10:02	18.5	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 10:02	9.99	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 10:07	558.6	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 10:07	0.3	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 10:07	25.6	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 10:07	-164.02	mv
GN-AP-MW-16V	PH	pH	1/24/2023 10:07	8.27	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 10:07	18.68	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 10:07	15.4	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 10:12	555.78	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 10:12	0.29	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 10:12	26.08	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 10:12	-163.72	mv
GN-AP-MW-16V	PH	pH	1/24/2023 10:12	8.28	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 10:12	18.69	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 10:12	19.8	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 10:17	559.43	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 10:17	0.29	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 10:17	26.12	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 10:17	-162.86	mv
GN-AP-MW-16V	PH	pH	1/24/2023 10:17	8.3	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 10:17	18.67	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 10:17	13.7	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 10:22	562.55	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-16V	DO	DO	1/24/2023 10:22	0.28	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 10:22	26.6	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 10:22	-161.67	mv
GN-AP-MW-16V	PH	pH	1/24/2023 10:22	8.32	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 10:22	18.82	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 10:22	11.1	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 10:27	562.76	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 10:27	0.34	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 10:27	26.35	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 10:27	-157.79	mv
GN-AP-MW-16V	PH	pH	1/24/2023 10:27	8.34	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 10:27	17.69	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 10:27	10.96	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 10:32	566.42	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 10:32	0.39	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 10:32	25.82	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 10:32	-152.88	mv
GN-AP-MW-16V	PH	pH	1/24/2023 10:32	8.42	SU
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 10:32	17.44	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 10:32	10.62	NTU
GN-AP-MW-16V	COND	Conductivity	1/24/2023 10:37	567.97	uS/cm
GN-AP-MW-16V	DO	DO	1/24/2023 10:37	0.44	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	1/24/2023 10:37	25.23	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	1/24/2023 10:37	-144.27	mv
GN-AP-MW-16V	PH	pH	1/24/2023 10:37	8.47	SU
GN-AP-MW-16V	SULFIDE	Sulfide	1/24/2023 10:37	0	mg/L
GN-AP-MW-16V	TEMP	Temperature	1/24/2023 10:37	17.44	C
GN-AP-MW-16V	TURB	Turbidity	1/24/2023 10:37	9.83	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	COND	Conductivity	1/24/2023 11:40	591.51	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 11:40	0.1	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 11:40	8.9	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 11:40	-129.27	mv
GN-AP-MW-29H	PH	pH	1/24/2023 11:40	8.22	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 11:40	18.66	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 11:40	2.74	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 11:45	584.37	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 11:45	0.2	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 11:45	10.08	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 11:45	-118.37	mv
GN-AP-MW-29H	PH	pH	1/24/2023 11:45	8.21	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 11:45	16.84	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 11:45	1.74	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 11:50	587.89	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 11:50	0.24	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 11:50	10.74	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 11:50	-112.36	mv
GN-AP-MW-29H	PH	pH	1/24/2023 11:50	8.22	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 11:50	16.28	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 11:50	1.79	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 11:55	588.2	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 11:55	0.3	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 11:55	11.21	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 11:55	-108.2	mv
GN-AP-MW-29H	PH	pH	1/24/2023 11:55	8.23	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 11:55	16.13	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 11:55	1.52	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:00	588.3	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:00	0.34	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:00	11.21	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:00	-106.62	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:00	8.23	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:00	16.21	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:00	1.57	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:05	588.21	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:05	0.34	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:05	12.12	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:05	-106.42	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:05	8.23	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:05	16.29	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:05	1.62	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:10	588.06	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:10	0.35	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:10	12.47	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:10	-108.28	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:10	8.25	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:10	16.47	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:10	1.87	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:15	594.29	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	DO	DO	1/24/2023 12:15	0.35	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:15	13	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:15	-109.66	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:15	8.25	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:15	16.83	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:15	1.72	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:20	591.26	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:20	0.15	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:20	15.3	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:20	-122.69	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:20	8.23	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:20	19.27	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:20	1.7	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:25	591.51	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:25	0.14	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:25	17.2	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:25	-120.39	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:25	8.21	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:25	19.45	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:25	1.57	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:30	591.62	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:30	0.14	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:30	19.4	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:30	-121.47	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:30	8.2	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:30	19.57	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:30	1.8	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:35	591.65	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:35	0.11	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:35	21.85	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:35	-121.33	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:35	8.17	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:35	19.75	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:35	1.59	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:40	591.31	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:40	0.12	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:40	24.54	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:40	-124.07	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:40	8.17	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:40	19.92	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:40	1.52	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:45	591.4	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:45	0.12	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:45	26.73	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:45	-124.7	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:45	8.15	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:45	20.03	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:45	1.55	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:50	591.16	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:50	0.13	mg/L

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:50	29.2	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:50	-126.54	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:50	8.15	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:50	20.05	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:50	1.47	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 12:55	591.23	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 12:55	0.12	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 12:55	31.65	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 12:55	-127.1	mv
GN-AP-MW-29H	PH	pH	1/24/2023 12:55	8.13	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 12:55	20.07	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 12:55	1.51	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:00	588.65	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:00	0.18	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:00	32.2	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:00	-124.56	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:00	8.12	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:00	18.65	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:00	1.41	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:05	586.91	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:05	0.28	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:05	32.36	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:05	-128.31	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:05	8.18	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:05	18.7	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:05	1.47	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:10	586.12	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:10	0.31	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:10	32.61	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:10	-137.71	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:10	8.21	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:10	18.84	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:10	1.58	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:15	584.37	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:15	0.29	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:15	32.89	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:15	-144.94	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:15	8.26	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:15	18.59	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:15	1.57	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:20	585.16	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:20	0.28	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:20	33.1	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:20	-148.82	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:20	8.27	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:20	18.7	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:20	1.41	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:25	584.92	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:25	0.27	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:25	33.38	ft

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:25	-150.93	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:25	8.28	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:25	18.74	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:25	1.48	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:30	585.12	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:30	0.27	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:30	33.5	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:30	-152.69	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:30	8.28	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:30	18.88	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:30	1.51	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:35	585.47	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:35	0.26	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:35	33.73	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:35	-154.04	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:35	8.28	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:35	19	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:35	1.44	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:40	588.64	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:40	0.15	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:40	35.35	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:40	-154.8	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:40	8.22	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:40	19.95	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:40	1.68	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:45	590.72	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:45	0.12	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:45	36.9	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:45	-144.75	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:45	8.13	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:45	20.1	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:45	1.55	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:50	590.45	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:50	0.13	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:50	38.4	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:50	-140.6	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:50	8.09	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:50	20.23	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:50	1.42	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 13:55	587.69	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 13:55	0.18	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 13:55	38.7	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 13:55	-137.33	mv
GN-AP-MW-29H	PH	pH	1/24/2023 13:55	8.09	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 13:55	19.34	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 13:55	1.45	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 14:00	586.39	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 14:00	0.26	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 14:00	38.88	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 14:00	-143.26	mv

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	PH	pH	1/24/2023 14:00	8.18	SU
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 14:00	19.18	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 14:00	1.42	NTU
GN-AP-MW-29H	COND	Conductivity	1/24/2023 14:05	585.13	uS/cm
GN-AP-MW-29H	DO	DO	1/24/2023 14:05	0.29	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	1/24/2023 14:05	38.96	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	1/24/2023 14:05	-150.83	mv
GN-AP-MW-29H	PH	pH	1/24/2023 14:05	8.25	SU
GN-AP-MW-29H	SULFIDE	Sulfide	1/24/2023 14:05	0	mg/L
GN-AP-MW-29H	TEMP	Temperature	1/24/2023 14:05	19.51	C
GN-AP-MW-29H	TURB	Turbidity	1/24/2023 14:05	1.56	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17V	COND	Conductivity	1/25/2023 9:58	980.59	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 9:58	0.4	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 9:58	11.25	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 9:58	-184.3	mv
GN-AP-MW-17V	PH	pH	1/25/2023 9:58	8.16	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 9:58	18.9	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 9:58	22.5	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:03	959.9	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:03	0.2	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:03	12.45	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:03	-210.19	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:03	8.14	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:03	19.19	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:03	17.4	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:08	954.23	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:08	0.18	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:08	14.96	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:08	-227.12	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:08	8.14	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:08	19.14	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:08	14.3	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:13	953.8	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:13	0.17	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:13	18.2	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:13	-239.49	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:13	8.15	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:13	19.33	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:13	12.1	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:18	960.46	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:18	0.16	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:18	20.25	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:18	-246.43	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:18	8.15	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:18	19.43	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:18	10.82	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:23	953.07	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:23	0.16	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:23	23.15	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:23	-252.72	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:23	8.15	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:23	19.4	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:23	8.97	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:28	944.56	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:28	0.16	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:28	24.38	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:28	-256.43	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:28	8.14	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:28	19.62	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:28	7.47	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:33	923.42	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17V	DO	DO	1/25/2023 10:33	0.16	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:33	26.38	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:33	-259.17	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:33	8.13	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:33	19.6	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:33	7.51	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:38	906.67	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:38	0.16	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:38	28	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:38	-260.66	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:38	8.12	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:38	19.61	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:38	5.57	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:43	904.25	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:43	0.16	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:43	29.75	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:43	-261.56	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:43	8.11	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:43	19.92	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:43	5.62	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:48	898.07	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:48	0.23	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:48	29.98	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:48	-259.02	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:48	8.1	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:48	18.58	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:48	5.1	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:53	948.33	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:53	0.32	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:53	29.98	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:53	-255.62	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:53	8.14	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:53	18.45	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:53	5.61	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 10:58	1021.75	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 10:58	0.34	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 10:58	29.98	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 10:58	-250.6	mv
GN-AP-MW-17V	PH	pH	1/25/2023 10:58	8.23	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 10:58	18.36	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 10:58	6.43	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 11:03	1063.74	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 11:03	0.35	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 11:03	29.98	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 11:03	-246	mv
GN-AP-MW-17V	PH	pH	1/25/2023 11:03	8.29	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 11:03	18.31	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 11:03	7.47	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 11:08	1082.33	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 11:08	0.33	mg/L

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 11:08	29.98	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 11:08	-241.68	mv
GN-AP-MW-17V	PH	pH	1/25/2023 11:08	8.32	SU
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 11:08	18.07	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 11:08	7.13	NTU
GN-AP-MW-17V	COND	Conductivity	1/25/2023 11:13	1096.71	uS/cm
GN-AP-MW-17V	DO	DO	1/25/2023 11:13	0.33	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	1/25/2023 11:13	29.98	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	1/25/2023 11:13	-239.29	mv
GN-AP-MW-17V	PH	pH	1/25/2023 11:13	8.35	SU
GN-AP-MW-17V	SULFIDE	Sulfide	1/25/2023 11:13	0	mg/L
GN-AP-MW-17V	TEMP	Temperature	1/25/2023 11:13	18.12	C
GN-AP-MW-17V	TURB	Turbidity	1/25/2023 11:13	5.54	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-7	COND	Conductivity	1/25/2023 13:02	535.33	uS/cm
GN-AP-MW-7	DO	DO	1/25/2023 13:02	0.19	mg/L
GN-AP-MW-7	DTW	Depth to Water Detail	1/25/2023 13:02	5.18	ft
GN-AP-MW-7	ORP	Oxidation Reduction Potention	1/25/2023 13:02	-56.22	mv
GN-AP-MW-7	PH	pH	1/25/2023 13:02	7.66	SU
GN-AP-MW-7	TEMP	Temperature	1/25/2023 13:02	17.55	C
GN-AP-MW-7	TURB	Turbidity	1/25/2023 13:02	3.17	NTU
GN-AP-MW-7	COND	Conductivity	1/25/2023 13:07	535.82	uS/cm
GN-AP-MW-7	DO	DO	1/25/2023 13:07	0.16	mg/L
GN-AP-MW-7	DTW	Depth to Water Detail	1/25/2023 13:07	5.18	ft
GN-AP-MW-7	ORP	Oxidation Reduction Potention	1/25/2023 13:07	-56.2	mv
GN-AP-MW-7	PH	pH	1/25/2023 13:07	7.64	SU
GN-AP-MW-7	TEMP	Temperature	1/25/2023 13:07	17.62	C
GN-AP-MW-7	TURB	Turbidity	1/25/2023 13:07	2.69	NTU
GN-AP-MW-7	COND	Conductivity	1/25/2023 13:12	536.66	uS/cm
GN-AP-MW-7	DO	DO	1/25/2023 13:12	0.15	mg/L
GN-AP-MW-7	DTW	Depth to Water Detail	1/25/2023 13:12	5.18	ft
GN-AP-MW-7	ORP	Oxidation Reduction Potention	1/25/2023 13:12	-53.92	mv
GN-AP-MW-7	PH	pH	1/25/2023 13:12	7.6	SU
GN-AP-MW-7	TEMP	Temperature	1/25/2023 13:12	17.63	C
GN-AP-MW-7	TURB	Turbidity	1/25/2023 13:12	1.78	NTU
GN-AP-MW-7	COND	Conductivity	1/25/2023 13:17	537.3	uS/cm
GN-AP-MW-7	DO	DO	1/25/2023 13:17	0.14	mg/L
GN-AP-MW-7	DTW	Depth to Water Detail	1/25/2023 13:17	5.18	ft
GN-AP-MW-7	ORP	Oxidation Reduction Potention	1/25/2023 13:17	-54.05	mv
GN-AP-MW-7	PH	pH	1/25/2023 13:17	7.61	SU
GN-AP-MW-7	SULFIDE	Sulfide	1/25/2023 13:17	0	mg/L
GN-AP-MW-7	TEMP	Temperature	1/25/2023 13:17	17.62	C
GN-AP-MW-7	TURB	Turbidity	1/25/2023 13:17	1.81	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17	COND	Conductivity	1/30/2023 12:02	2375.44	uS/cm
GN-AP-MW-17	DO	DO	1/30/2023 12:02	0.16	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	1/30/2023 12:02	8.5	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	1/30/2023 12:02	-128.47	mv
GN-AP-MW-17	PH	pH	1/30/2023 12:02	9.29	SU
GN-AP-MW-17	TEMP	Temperature	1/30/2023 12:02	19.07	C
GN-AP-MW-17	TURB	Turbidity	1/30/2023 12:02	2.79	NTU
GN-AP-MW-17	COND	Conductivity	1/30/2023 12:07	2256.01	uS/cm
GN-AP-MW-17	DO	DO	1/30/2023 12:07	0.15	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	1/30/2023 12:07	9.15	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	1/30/2023 12:07	-159.75	mv
GN-AP-MW-17	PH	pH	1/30/2023 12:07	9.22	SU
GN-AP-MW-17	TEMP	Temperature	1/30/2023 12:07	19.41	C
GN-AP-MW-17	TURB	Turbidity	1/30/2023 12:07	3.23	NTU
GN-AP-MW-17	COND	Conductivity	1/30/2023 12:12	2236.85	uS/cm
GN-AP-MW-17	DO	DO	1/30/2023 12:12	0.14	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	1/30/2023 12:12	9.45	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	1/30/2023 12:12	-167.11	mv
GN-AP-MW-17	PH	pH	1/30/2023 12:12	9.23	SU
GN-AP-MW-17	TEMP	Temperature	1/30/2023 12:12	19.48	C
GN-AP-MW-17	TURB	Turbidity	1/30/2023 12:12	2.29	NTU
GN-AP-MW-17	COND	Conductivity	1/30/2023 12:17	2214.46	uS/cm
GN-AP-MW-17	DO	DO	1/30/2023 12:17	0.13	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	1/30/2023 12:17	9.75	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	1/30/2023 12:17	-169.43	mv
GN-AP-MW-17	PH	pH	1/30/2023 12:17	9.24	SU
GN-AP-MW-17	TEMP	Temperature	1/30/2023 12:17	19.57	C
GN-AP-MW-17	TURB	Turbidity	1/30/2023 12:17	2.37	NTU
GN-AP-MW-17	COND	Conductivity	1/30/2023 12:22	2193.84	uS/cm
GN-AP-MW-17	DO	DO	1/30/2023 12:22	0.12	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	1/30/2023 12:22	9.85	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	1/30/2023 12:22	-169.67	mv
GN-AP-MW-17	PH	pH	1/30/2023 12:22	9.26	SU
GN-AP-MW-17	TEMP	Temperature	1/30/2023 12:22	19.59	C
GN-AP-MW-17	TURB	Turbidity	1/30/2023 12:22	2.19	NTU
GN-AP-MW-17	COND	Conductivity	1/30/2023 12:27	2195.91	uS/cm
GN-AP-MW-17	DO	DO	1/30/2023 12:27	0.12	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	1/30/2023 12:27	9.91	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	1/30/2023 12:27	-170.91	mv
GN-AP-MW-17	PH	pH	1/30/2023 12:27	9.27	SU
GN-AP-MW-17	TEMP	Temperature	1/30/2023 12:27	19.63	C
GN-AP-MW-17	TURB	Turbidity	1/30/2023 12:27	1.9	NTU
GN-AP-MW-17	COND	Conductivity	1/30/2023 12:32	2184.63	uS/cm
GN-AP-MW-17	DO	DO	1/30/2023 12:32	0.12	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	1/30/2023 12:32	9.95	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	1/30/2023 12:32	-171.01	mv
GN-AP-MW-17	PH	pH	1/30/2023 12:32	9.27	SU
GN-AP-MW-17	SULFIDE	Sulfide	1/30/2023 12:32	0	mg/L
GN-AP-MW-17	TEMP	Temperature	1/30/2023 12:32	19.7	C
GN-AP-MW-17	TURB	Turbidity	1/30/2023 12:32	1.89	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	COND	Conductivity	1/31/2023 8:34	1076.88	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 8:34	0.14	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 8:34	53.75	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 8:34	-255.96	mv
GN-AP-MW-34V	PH	pH	1/31/2023 8:34	8	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 8:34	18.86	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 8:34	1.5	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 8:39	1003	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 8:39	0.14	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 8:39	53.75	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 8:39	-260.78	mv
GN-AP-MW-34V	PH	pH	1/31/2023 8:39	7.88	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 8:39	18.84	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 8:39	1.71	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 8:44	1018.91	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 8:44	0.15	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 8:44	56.44	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 8:44	-263.8	mv
GN-AP-MW-34V	PH	pH	1/31/2023 8:44	7.83	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 8:44	18.76	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 8:44	1.39	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 8:49	1021.94	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 8:49	0.16	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 8:49	57.35	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 8:49	-265.35	mv
GN-AP-MW-34V	PH	pH	1/31/2023 8:49	7.85	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 8:49	18.65	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 8:49	1.31	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 8:54	1002.08	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 8:54	0.18	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 8:54	57.95	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 8:54	-268.14	mv
GN-AP-MW-34V	PH	pH	1/31/2023 8:54	7.85	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 8:54	18.57	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 8:54	1.21	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 8:59	1020.6	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 8:59	0.18	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 8:59	58.95	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 8:59	-270.51	mv
GN-AP-MW-34V	PH	pH	1/31/2023 8:59	7.85	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 8:59	18.45	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 8:59	1.75	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:04	1023.6	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:04	0.19	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:04	59.35	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:04	-274.99	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:04	7.84	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:04	18.43	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:04	1.3	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:09	1026.16	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	DO	DO	1/31/2023 9:09	0.19	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:09	59.8	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:09	-281.13	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:09	7.85	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:09	18.44	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:09	1.2	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:14	1028.61	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:14	0.18	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:14	60.25	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:14	-287.3	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:14	7.85	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:14	18.57	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:14	1.82	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:19	1031.7	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:19	0.15	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:19	60.97	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:19	-291.95	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:19	7.85	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:19	18.63	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:19	1.26	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:24	1043.42	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:24	0.15	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:24	61.6	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:24	-293.19	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:24	7.84	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:24	18.73	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:24	1.41	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:29	1047.31	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:29	0.15	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:29	62.2	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:29	-294.58	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:29	7.85	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:29	18.65	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:29	1.35	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:34	1040.64	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:34	0.15	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:34	62.55	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:34	-296.93	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:34	7.83	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:34	18.66	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:34	1.41	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:39	1034.91	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:39	0.15	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:39	62.92	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:39	-299.47	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:39	7.83	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:39	18.61	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:39	1.4	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:44	1044.39	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:44	0.16	mg/L

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:44	63.29	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:44	-299.74	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:44	7.83	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:44	18.62	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:44	1.75	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:49	1039.74	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:49	0.16	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:49	63.5	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:49	-299.2	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:49	7.82	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:49	18.6	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:49	1.42	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:54	1037.89	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:54	0.16	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:54	63.65	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:54	-300.54	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:54	7.83	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:54	18.62	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:54	1.4	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 9:59	1034.31	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 9:59	0.16	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 9:59	63.72	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 9:59	-300.35	mv
GN-AP-MW-34V	PH	pH	1/31/2023 9:59	7.83	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 9:59	18.62	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 9:59	1.42	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 10:04	1030.52	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 10:04	0.16	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 10:04	63.82	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 10:04	-300.88	mv
GN-AP-MW-34V	PH	pH	1/31/2023 10:04	7.83	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 10:04	18.62	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 10:04	1.71	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 10:09	1025.53	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 10:09	0.16	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 10:09	63.91	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 10:09	-300.8	mv
GN-AP-MW-34V	PH	pH	1/31/2023 10:09	7.84	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 10:09	18.6	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 10:09	2.12	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 10:14	1018.38	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 10:14	0.16	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 10:14	63.96	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 10:14	-298.69	mv
GN-AP-MW-34V	PH	pH	1/31/2023 10:14	7.84	SU
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 10:14	18.63	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 10:14	1.57	NTU
GN-AP-MW-34V	COND	Conductivity	1/31/2023 10:19	1012.97	uS/cm
GN-AP-MW-34V	DO	DO	1/31/2023 10:19	0.17	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	1/31/2023 10:19	64.03	ft

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	1/31/2023 10:19	-298.2	mv
GN-AP-MW-34V	PH	pH	1/31/2023 10:19	7.85	SU
GN-AP-MW-34V	SULFIDE	Sulfide	1/31/2023 10:19	1	mg/L
GN-AP-MW-34V	TEMP	Temperature	1/31/2023 10:19	18.72	C
GN-AP-MW-34V	TURB	Turbidity	1/31/2023 10:19	1.62	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-5	COND	Conductivity	2/6/2023 10:52	359.05	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 10:52	5.97	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 10:52	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 10:52	24.8	mv
GN-AP-MW-5	PH	pH	2/6/2023 10:52	7.5	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 10:52	19.33	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 10:52	20.7	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 10:57	358.73	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 10:57	5.79	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 10:57	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 10:57	40.29	mv
GN-AP-MW-5	PH	pH	2/6/2023 10:57	7.52	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 10:57	19.43	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 10:57	39.5	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:02	358.74	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:02	5.86	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:02	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:02	51.02	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:02	7.52	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:02	19.49	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:02	34.4	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:07	359.17	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:07	6.02	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:07	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:07	61.6	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:07	7.48	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:07	19.53	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:07	27.2	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:12	359.75	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:12	3.77	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:12	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:12	65.23	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:12	7.51	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:12	19.53	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:12	22.6	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:17	359.84	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:17	5.92	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:17	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:17	68.8	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:17	7.53	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:17	19.59	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:17	21	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:22	360.5	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:22	3.05	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:22	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:22	72.17	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:22	7.53	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:22	19.64	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:22	17.1	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:27	360.4	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-5	DO	DO	2/6/2023 11:27	5.89	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:27	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:27	77.79	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:27	7.48	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:27	19.65	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:27	14.6	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:32	361.04	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:32	5.86	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:32	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:32	78.17	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:32	7.52	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:32	19.59	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:32	12.7	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:37	361.61	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:37	5.92	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:37	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:37	79.46	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:37	7.53	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:37	19.65	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:37	11.6	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:42	361.74	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:42	5.93	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:42	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:42	80.89	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:42	7.53	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:42	19.69	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:42	11.1	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:47	362.06	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:47	5.88	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:47	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:47	84.62	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:47	7.48	SU
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:47	19.76	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:47	9.99	NTU
GN-AP-MW-5	COND	Conductivity	2/6/2023 11:52	362.25	uS/cm
GN-AP-MW-5	DO	DO	2/6/2023 11:52	5.91	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	2/6/2023 11:52	9.74	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	2/6/2023 11:52	83.95	mv
GN-AP-MW-5	PH	pH	2/6/2023 11:52	7.52	SU
GN-AP-MW-5	SULFIDE	Sulfide	2/6/2023 11:52	0	mg/L
GN-AP-MW-5	TEMP	Temperature	2/6/2023 11:52	19.65	C
GN-AP-MW-5	TURB	Turbidity	2/6/2023 11:52	9.07	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-6	COND	Conductivity	2/6/2023 14:07	556.63	uS/cm
GN-AP-MW-6	DO	DO	2/6/2023 14:07	2.81	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	2/6/2023 14:07	11.48	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	2/6/2023 14:07	4.24	mv
GN-AP-MW-6	PH	pH	2/6/2023 14:07	7.57	SU
GN-AP-MW-6	TEMP	Temperature	2/6/2023 14:07	19.33	C
GN-AP-MW-6	TURB	Turbidity	2/6/2023 14:07	2.34	NTU
GN-AP-MW-6	COND	Conductivity	2/6/2023 14:12	546.28	uS/cm
GN-AP-MW-6	DO	DO	2/6/2023 14:12	2.57	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	2/6/2023 14:12	11.48	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	2/6/2023 14:12	18.77	mv
GN-AP-MW-6	PH	pH	2/6/2023 14:12	7.52	SU
GN-AP-MW-6	TEMP	Temperature	2/6/2023 14:12	19.34	C
GN-AP-MW-6	TURB	Turbidity	2/6/2023 14:12	2.29	NTU
GN-AP-MW-6	COND	Conductivity	2/6/2023 14:17	548.56	uS/cm
GN-AP-MW-6	DO	DO	2/6/2023 14:17	2.28	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	2/6/2023 14:17	11.48	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	2/6/2023 14:17	26.63	mv
GN-AP-MW-6	PH	pH	2/6/2023 14:17	7.56	SU
GN-AP-MW-6	TEMP	Temperature	2/6/2023 14:17	19.37	C
GN-AP-MW-6	TURB	Turbidity	2/6/2023 14:17	1.98	NTU
GN-AP-MW-6	COND	Conductivity	2/6/2023 14:22	552.09	uS/cm
GN-AP-MW-6	DO	DO	2/6/2023 14:22	2.01	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	2/6/2023 14:22	11.48	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	2/6/2023 14:22	32.32	mv
GN-AP-MW-6	PH	pH	2/6/2023 14:22	7.56	SU
GN-AP-MW-6	TEMP	Temperature	2/6/2023 14:22	19.37	C
GN-AP-MW-6	TURB	Turbidity	2/6/2023 14:22	1.9	NTU
GN-AP-MW-6	COND	Conductivity	2/6/2023 14:27	556.1	uS/cm
GN-AP-MW-6	DO	DO	2/6/2023 14:27	1.87	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	2/6/2023 14:27	11.48	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	2/6/2023 14:27	39.58	mv
GN-AP-MW-6	PH	pH	2/6/2023 14:27	7.51	SU
GN-AP-MW-6	TEMP	Temperature	2/6/2023 14:27	19.31	C
GN-AP-MW-6	TURB	Turbidity	2/6/2023 14:27	1.33	NTU
GN-AP-MW-6	COND	Conductivity	2/6/2023 14:32	560.32	uS/cm
GN-AP-MW-6	DO	DO	2/6/2023 14:32	1.77	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	2/6/2023 14:32	11.48	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	2/6/2023 14:32	46.88	mv
GN-AP-MW-6	PH	pH	2/6/2023 14:32	7.45	SU
GN-AP-MW-6	TEMP	Temperature	2/6/2023 14:32	19.31	C
GN-AP-MW-6	TURB	Turbidity	2/6/2023 14:32	1.16	NTU
GN-AP-MW-6	COND	Conductivity	2/6/2023 14:37	562.05	uS/cm
GN-AP-MW-6	DO	DO	2/6/2023 14:37	1.73	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	2/6/2023 14:37	11.48	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	2/6/2023 14:37	52.69	mv
GN-AP-MW-6	PH	pH	2/6/2023 14:37	7.43	SU
GN-AP-MW-6	SULFIDE	Sulfide	2/6/2023 14:37	0	mg/L
GN-AP-MW-6	TEMP	Temperature	2/6/2023 14:37	19.28	C
GN-AP-MW-6	TURB	Turbidity	2/6/2023 14:37	1.26	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-21	COND	Conductivity	2/6/2023 13:21	589.76	uS/cm
GN-AP-MW-21	DO	DO	2/6/2023 13:21	1.46	mg/L
GN-AP-MW-21	DTW	Depth to Water Detail	2/6/2023 13:21	14.38	ft
GN-AP-MW-21	ORP	Oxidation Reduction Potention	2/6/2023 13:21	58.25	mv
GN-AP-MW-21	PH	pH	2/6/2023 13:21	7.16	SU
GN-AP-MW-21	TEMP	Temperature	2/6/2023 13:21	18.86	C
GN-AP-MW-21	TURB	Turbidity	2/6/2023 13:21	2.66	NTU
GN-AP-MW-21	COND	Conductivity	2/6/2023 13:26	587.19	uS/cm
GN-AP-MW-21	DO	DO	2/6/2023 13:26	0.72	mg/L
GN-AP-MW-21	DTW	Depth to Water Detail	2/6/2023 13:26	14.71	ft
GN-AP-MW-21	ORP	Oxidation Reduction Potention	2/6/2023 13:26	-49.98	mv
GN-AP-MW-21	PH	pH	2/6/2023 13:26	7.12	SU
GN-AP-MW-21	TEMP	Temperature	2/6/2023 13:26	18.87	C
GN-AP-MW-21	TURB	Turbidity	2/6/2023 13:26	2.4	NTU
GN-AP-MW-21	COND	Conductivity	2/6/2023 13:31	584.79	uS/cm
GN-AP-MW-21	DO	DO	2/6/2023 13:31	0.35	mg/L
GN-AP-MW-21	DTW	Depth to Water Detail	2/6/2023 13:31	14.86	ft
GN-AP-MW-21	ORP	Oxidation Reduction Potention	2/6/2023 13:31	-70.27	mv
GN-AP-MW-21	PH	pH	2/6/2023 13:31	7.12	SU
GN-AP-MW-21	TEMP	Temperature	2/6/2023 13:31	18.85	C
GN-AP-MW-21	TURB	Turbidity	2/6/2023 13:31	1.46	NTU
GN-AP-MW-21	COND	Conductivity	2/6/2023 13:36	584.18	uS/cm
GN-AP-MW-21	DO	DO	2/6/2023 13:36	0.28	mg/L
GN-AP-MW-21	DTW	Depth to Water Detail	2/6/2023 13:36	14.89	ft
GN-AP-MW-21	ORP	Oxidation Reduction Potention	2/6/2023 13:36	-74.76	mv
GN-AP-MW-21	PH	pH	2/6/2023 13:36	7.12	SU
GN-AP-MW-21	SULFIDE	Sulfide	2/6/2023 13:36	0	mg/L
GN-AP-MW-21	TEMP	Temperature	2/6/2023 13:36	18.8	C
GN-AP-MW-21	TURB	Turbidity	2/6/2023 13:36	1.78	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-22	COND	Conductivity	2/6/2023 12:36	478.04	uS/cm
GN-AP-MW-22	DO	DO	2/6/2023 12:36	0.77	mg/L
GN-AP-MW-22	DTW	Depth to Water Detail	2/6/2023 12:36	7.76	ft
GN-AP-MW-22	ORP	Oxidation Reduction Potention	2/6/2023 12:36	101.54	mv
GN-AP-MW-22	PH	pH	2/6/2023 12:36	6.86	SU
GN-AP-MW-22	TEMP	Temperature	2/6/2023 12:36	19.32	C
GN-AP-MW-22	TURB	Turbidity	2/6/2023 12:36	0.81	NTU
GN-AP-MW-22	COND	Conductivity	2/6/2023 12:41	478	uS/cm
GN-AP-MW-22	DO	DO	2/6/2023 12:41	0.67	mg/L
GN-AP-MW-22	DTW	Depth to Water Detail	2/6/2023 12:41	7.76	ft
GN-AP-MW-22	ORP	Oxidation Reduction Potention	2/6/2023 12:41	98.15	mv
GN-AP-MW-22	PH	pH	2/6/2023 12:41	6.85	SU
GN-AP-MW-22	TEMP	Temperature	2/6/2023 12:41	19.33	C
GN-AP-MW-22	TURB	Turbidity	2/6/2023 12:41	0.78	NTU
GN-AP-MW-22	COND	Conductivity	2/6/2023 12:46	480.34	uS/cm
GN-AP-MW-22	DO	DO	2/6/2023 12:46	0.62	mg/L
GN-AP-MW-22	DTW	Depth to Water Detail	2/6/2023 12:46	7.76	ft
GN-AP-MW-22	ORP	Oxidation Reduction Potention	2/6/2023 12:46	94.23	mv
GN-AP-MW-22	PH	pH	2/6/2023 12:46	6.87	SU
GN-AP-MW-22	TEMP	Temperature	2/6/2023 12:46	19.25	C
GN-AP-MW-22	TURB	Turbidity	2/6/2023 12:46	0.65	NTU
GN-AP-MW-22	COND	Conductivity	2/6/2023 12:51	480.24	uS/cm
GN-AP-MW-22	DO	DO	2/6/2023 12:51	0.63	mg/L
GN-AP-MW-22	DTW	Depth to Water Detail	2/6/2023 12:51	7.76	ft
GN-AP-MW-22	ORP	Oxidation Reduction Potention	2/6/2023 12:51	91.24	mv
GN-AP-MW-22	PH	pH	2/6/2023 12:51	6.88	SU
GN-AP-MW-22	SULFIDE	Sulfide	2/6/2023 12:51	0	mg/L
GN-AP-MW-22	TEMP	Temperature	2/6/2023 12:51	19.25	C
GN-AP-MW-22	TURB	Turbidity	2/6/2023 12:51	0.5	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-32V	COND	Conductivity	2/7/2023 9:03	657.02	uS/cm
GN-AP-MW-32V	DO	DO	2/7/2023 9:03	0.14	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	2/7/2023 9:03	49.42	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	2/7/2023 9:03	-265.19	mv
GN-AP-MW-32V	PH	pH	2/7/2023 9:03	7.92	SU
GN-AP-MW-32V	TEMP	Temperature	2/7/2023 9:03	20.28	C
GN-AP-MW-32V	TURB	Turbidity	2/7/2023 9:03	0.55	NTU
GN-AP-MW-32V	COND	Conductivity	2/7/2023 9:08	660.43	uS/cm
GN-AP-MW-32V	DO	DO	2/7/2023 9:08	0.12	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	2/7/2023 9:08	50.74	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	2/7/2023 9:08	-251.01	mv
GN-AP-MW-32V	PH	pH	2/7/2023 9:08	7.86	SU
GN-AP-MW-32V	TEMP	Temperature	2/7/2023 9:08	20.55	C
GN-AP-MW-32V	TURB	Turbidity	2/7/2023 9:08	0.64	NTU
GN-AP-MW-32V	COND	Conductivity	2/7/2023 9:14	648.09	uS/cm
GN-AP-MW-32V	DO	DO	2/7/2023 9:14	0.2	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	2/7/2023 9:14	51.93	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	2/7/2023 9:14	-249.93	mv
GN-AP-MW-32V	PH	pH	2/7/2023 9:14	7.42	SU
GN-AP-MW-32V	TEMP	Temperature	2/7/2023 9:14	19.76	C
GN-AP-MW-32V	TURB	Turbidity	2/7/2023 9:14	0.62	NTU
GN-AP-MW-32V	COND	Conductivity	2/7/2023 9:19	619.2	uS/cm
GN-AP-MW-32V	DO	DO	2/7/2023 9:19	0.41	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	2/7/2023 9:19	50.66	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	2/7/2023 9:19	-242.26	mv
GN-AP-MW-32V	PH	pH	2/7/2023 9:19	7.44	SU
GN-AP-MW-32V	TEMP	Temperature	2/7/2023 9:19	18.54	C
GN-AP-MW-32V	TURB	Turbidity	2/7/2023 9:19	0.5	NTU
GN-AP-MW-32V	COND	Conductivity	2/7/2023 9:24	646.54	uS/cm
GN-AP-MW-32V	DO	DO	2/7/2023 9:24	0.39	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	2/7/2023 9:24	50.34	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	2/7/2023 9:24	-245.52	mv
GN-AP-MW-32V	PH	pH	2/7/2023 9:24	7.41	SU
GN-AP-MW-32V	TEMP	Temperature	2/7/2023 9:24	19.21	C
GN-AP-MW-32V	TURB	Turbidity	2/7/2023 9:24	0.46	NTU
GN-AP-MW-32V	COND	Conductivity	2/7/2023 9:29	641.08	uS/cm
GN-AP-MW-32V	DO	DO	2/7/2023 9:29	0.25	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	2/7/2023 9:29	50.3	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	2/7/2023 9:29	-252.34	mv
GN-AP-MW-32V	PH	pH	2/7/2023 9:29	7.42	SU
GN-AP-MW-32V	SULFIDE	Sulfide	2/7/2023 9:29	1	mg/L
GN-AP-MW-32V	TEMP	Temperature	2/7/2023 9:29	19.79	C
GN-AP-MW-32V	TURB	Turbidity	2/7/2023 9:29	0.48	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-35V	COND	Conductivity	2/7/2023 11:52	449.7	uS/cm
GN-AP-MW-35V	DO	DO	2/7/2023 11:52	0.13	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	2/7/2023 11:52	49.21	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	2/7/2023 11:52	-282.78	mv
GN-AP-MW-35V	PH	pH	2/7/2023 11:52	8.08	SU
GN-AP-MW-35V	TEMP	Temperature	2/7/2023 11:52	19.42	C
GN-AP-MW-35V	TURB	Turbidity	2/7/2023 11:52	0.54	NTU
GN-AP-MW-35V	COND	Conductivity	2/7/2023 11:57	458.19	uS/cm
GN-AP-MW-35V	DO	DO	2/7/2023 11:57	0.13	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	2/7/2023 11:57	50.06	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	2/7/2023 11:57	-268.05	mv
GN-AP-MW-35V	PH	pH	2/7/2023 11:57	8.11	SU
GN-AP-MW-35V	TEMP	Temperature	2/7/2023 11:57	19.34	C
GN-AP-MW-35V	TURB	Turbidity	2/7/2023 11:57	0.29	NTU
GN-AP-MW-35V	COND	Conductivity	2/7/2023 12:02	457.79	uS/cm
GN-AP-MW-35V	DO	DO	2/7/2023 12:02	0.19	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	2/7/2023 12:02	50.71	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	2/7/2023 12:02	-261.95	mv
GN-AP-MW-35V	PH	pH	2/7/2023 12:02	8.14	SU
GN-AP-MW-35V	TEMP	Temperature	2/7/2023 12:02	19.32	C
GN-AP-MW-35V	TURB	Turbidity	2/7/2023 12:02	0.26	NTU
GN-AP-MW-35V	COND	Conductivity	2/7/2023 12:07	458.16	uS/cm
GN-AP-MW-35V	DO	DO	2/7/2023 12:07	0.29	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	2/7/2023 12:07	50.93	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	2/7/2023 12:07	-255.81	mv
GN-AP-MW-35V	PH	pH	2/7/2023 12:07	8.16	SU
GN-AP-MW-35V	TEMP	Temperature	2/7/2023 12:07	19.21	C
GN-AP-MW-35V	TURB	Turbidity	2/7/2023 12:07	0.25	NTU
GN-AP-MW-35V	COND	Conductivity	2/7/2023 12:12	457.39	uS/cm
GN-AP-MW-35V	DO	DO	2/7/2023 12:12	0.4	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	2/7/2023 12:12	51.06	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	2/7/2023 12:12	-248.87	mv
GN-AP-MW-35V	PH	pH	2/7/2023 12:12	8.17	SU
GN-AP-MW-35V	TEMP	Temperature	2/7/2023 12:12	18.88	C
GN-AP-MW-35V	TURB	Turbidity	2/7/2023 12:12	0.47	NTU
GN-AP-MW-35V	COND	Conductivity	2/7/2023 12:17	458.27	uS/cm
GN-AP-MW-35V	DO	DO	2/7/2023 12:17	0.5	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	2/7/2023 12:17	51.19	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	2/7/2023 12:17	-244.79	mv
GN-AP-MW-35V	PH	pH	2/7/2023 12:17	8.17	SU
GN-AP-MW-35V	SULFIDE	Sulfide	2/7/2023 12:17	1	mg/L
GN-AP-MW-35V	TEMP	Temperature	2/7/2023 12:17	18.99	C
GN-AP-MW-35V	TURB	Turbidity	2/7/2023 12:17	0.37	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-39	COND	Conductivity	2/7/2023 13:54	232.94	uS/cm
GN-AP-MW-39	DO	DO	2/7/2023 13:54	0.18	mg/L
GN-AP-MW-39	DTW	Depth to Water Detail	2/7/2023 13:54	16.56	ft
GN-AP-MW-39	ORP	Oxidation Reduction Potention	2/7/2023 13:54	-97.39	mv
GN-AP-MW-39	PH	pH	2/7/2023 13:54	7.38	SU
GN-AP-MW-39	TEMP	Temperature	2/7/2023 13:54	18.27	C
GN-AP-MW-39	TURB	Turbidity	2/7/2023 13:54	0.73	NTU
GN-AP-MW-39	COND	Conductivity	2/7/2023 13:59	232.82	uS/cm
GN-AP-MW-39	DO	DO	2/7/2023 13:59	0.12	mg/L
GN-AP-MW-39	DTW	Depth to Water Detail	2/7/2023 13:59	16.56	ft
GN-AP-MW-39	ORP	Oxidation Reduction Potention	2/7/2023 13:59	-133	mv
GN-AP-MW-39	PH	pH	2/7/2023 13:59	7.45	SU
GN-AP-MW-39	TEMP	Temperature	2/7/2023 13:59	18.22	C
GN-AP-MW-39	TURB	Turbidity	2/7/2023 13:59	0.63	NTU
GN-AP-MW-39	COND	Conductivity	2/7/2023 14:04	230.89	uS/cm
GN-AP-MW-39	DO	DO	2/7/2023 14:04	0.12	mg/L
GN-AP-MW-39	DTW	Depth to Water Detail	2/7/2023 14:04	16.56	ft
GN-AP-MW-39	ORP	Oxidation Reduction Potention	2/7/2023 14:04	-146.96	mv
GN-AP-MW-39	PH	pH	2/7/2023 14:04	7.51	SU
GN-AP-MW-39	TEMP	Temperature	2/7/2023 14:04	18.18	C
GN-AP-MW-39	TURB	Turbidity	2/7/2023 14:04	0.61	NTU
GN-AP-MW-39	COND	Conductivity	2/7/2023 14:09	229.2	uS/cm
GN-AP-MW-39	DO	DO	2/7/2023 14:09	0.13	mg/L
GN-AP-MW-39	DTW	Depth to Water Detail	2/7/2023 14:09	16.56	ft
GN-AP-MW-39	ORP	Oxidation Reduction Potention	2/7/2023 14:09	-155.08	mv
GN-AP-MW-39	PH	pH	2/7/2023 14:09	7.58	SU
GN-AP-MW-39	SULFIDE	Sulfide	2/7/2023 14:09	0	mg/L
GN-AP-MW-39	TEMP	Temperature	2/7/2023 14:09	18.17	C
GN-AP-MW-39	TURB	Turbidity	2/7/2023 14:09	0.67	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-37V	COND	Conductivity	1/24/2023 10:09	465.37	uS/cm
GN-AP-MW-37V	DO	DO	1/24/2023 10:09	0.38	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	1/24/2023 10:09	47.39	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	1/24/2023 10:09	-252.72	mv
GN-AP-MW-37V	PH	pH	1/24/2023 10:09	8.04	SU
GN-AP-MW-37V	TEMP	Temperature	1/24/2023 10:09	20.86	C
GN-AP-MW-37V	TURB	Turbidity	1/24/2023 10:09	0.43	NTU
GN-AP-MW-37V	COND	Conductivity	1/24/2023 10:14	466.22	uS/cm
GN-AP-MW-37V	DO	DO	1/24/2023 10:14	0.37	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	1/24/2023 10:14	47.76	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	1/24/2023 10:14	-241.81	mv
GN-AP-MW-37V	PH	pH	1/24/2023 10:14	8.02	SU
GN-AP-MW-37V	TEMP	Temperature	1/24/2023 10:14	20.79	C
GN-AP-MW-37V	TURB	Turbidity	1/24/2023 10:14	0.44	NTU
GN-AP-MW-37V	COND	Conductivity	1/24/2023 10:19	465.71	uS/cm
GN-AP-MW-37V	DO	DO	1/24/2023 10:19	0.36	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	1/24/2023 10:19	48.11	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	1/24/2023 10:19	-236.87	mv
GN-AP-MW-37V	PH	pH	1/24/2023 10:19	8.01	SU
GN-AP-MW-37V	TEMP	Temperature	1/24/2023 10:19	20.8	C
GN-AP-MW-37V	TURB	Turbidity	1/24/2023 10:19	0.46	NTU
GN-AP-MW-37V	COND	Conductivity	1/24/2023 10:24	464.22	uS/cm
GN-AP-MW-37V	DO	DO	1/24/2023 10:24	0.52	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	1/24/2023 10:24	48.11	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	1/24/2023 10:24	-229.76	mv
GN-AP-MW-37V	PH	pH	1/24/2023 10:24	8	SU
GN-AP-MW-37V	TEMP	Temperature	1/24/2023 10:24	20.35	C
GN-AP-MW-37V	TURB	Turbidity	1/24/2023 10:24	0.38	NTU
GN-AP-MW-37V	COND	Conductivity	1/24/2023 10:29	464.3	uS/cm
GN-AP-MW-37V	DO	DO	1/24/2023 10:29	0.59	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	1/24/2023 10:29	48.11	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	1/24/2023 10:29	-225.49	mv
GN-AP-MW-37V	PH	pH	1/24/2023 10:29	7.99	SU
GN-AP-MW-37V	TEMP	Temperature	1/24/2023 10:29	20.3	C
GN-AP-MW-37V	TURB	Turbidity	1/24/2023 10:29	0.37	NTU
GN-AP-MW-37V	COND	Conductivity	1/24/2023 10:34	464.47	uS/cm
GN-AP-MW-37V	DO	DO	1/24/2023 10:34	0.61	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	1/24/2023 10:34	48.11	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	1/24/2023 10:34	-223.11	mv
GN-AP-MW-37V	PH	pH	1/24/2023 10:34	7.99	SU
GN-AP-MW-37V	SULFIDE	Sulfide	1/24/2023 10:34	1	mg/L
GN-AP-MW-37V	TEMP	Temperature	1/24/2023 10:34	20.28	C
GN-AP-MW-37V	TURB	Turbidity	1/24/2023 10:34	0.65	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-15R	COND	Conductivity	1/24/2023 11:51	947.26	uS/cm
GN-AP-MW-15R	DO	DO	1/24/2023 11:51	0.64	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	1/24/2023 11:51	43.74	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	1/24/2023 11:51	-108.4	mv
GN-AP-MW-15R	PH	pH	1/24/2023 11:51	7.62	SU
GN-AP-MW-15R	TEMP	Temperature	1/24/2023 11:51	18.71	C
GN-AP-MW-15R	TURB	Turbidity	1/24/2023 11:51	0.94	NTU
GN-AP-MW-15R	COND	Conductivity	1/24/2023 11:56	943.24	uS/cm
GN-AP-MW-15R	DO	DO	1/24/2023 11:56	0.42	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	1/24/2023 11:56	44.59	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	1/24/2023 11:56	-106.57	mv
GN-AP-MW-15R	PH	pH	1/24/2023 11:56	7.62	SU
GN-AP-MW-15R	TEMP	Temperature	1/24/2023 11:56	18.86	C
GN-AP-MW-15R	TURB	Turbidity	1/24/2023 11:56	1.02	NTU
GN-AP-MW-15R	COND	Conductivity	1/24/2023 12:01	942.08	uS/cm
GN-AP-MW-15R	DO	DO	1/24/2023 12:01	0.37	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	1/24/2023 12:01	44.81	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	1/24/2023 12:01	-106.43	mv
GN-AP-MW-15R	PH	pH	1/24/2023 12:01	7.61	SU
GN-AP-MW-15R	TEMP	Temperature	1/24/2023 12:01	18.87	C
GN-AP-MW-15R	TURB	Turbidity	1/24/2023 12:01	0.38	NTU
GN-AP-MW-15R	COND	Conductivity	1/24/2023 12:06	941.39	uS/cm
GN-AP-MW-15R	DO	DO	1/24/2023 12:06	0.41	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	1/24/2023 12:06	45.09	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	1/24/2023 12:06	-105.66	mv
GN-AP-MW-15R	PH	pH	1/24/2023 12:06	7.6	SU
GN-AP-MW-15R	TEMP	Temperature	1/24/2023 12:06	18.93	C
GN-AP-MW-15R	TURB	Turbidity	1/24/2023 12:06	0.49	NTU
GN-AP-MW-15R	COND	Conductivity	1/24/2023 12:11	939.22	uS/cm
GN-AP-MW-15R	DO	DO	1/24/2023 12:11	0.47	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	1/24/2023 12:11	45.21	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	1/24/2023 12:11	-104.96	mv
GN-AP-MW-15R	PH	pH	1/24/2023 12:11	7.59	SU
GN-AP-MW-15R	TEMP	Temperature	1/24/2023 12:11	18.83	C
GN-AP-MW-15R	TURB	Turbidity	1/24/2023 12:11	0.46	NTU
GN-AP-MW-15R	COND	Conductivity	1/24/2023 12:16	940.19	uS/cm
GN-AP-MW-15R	DO	DO	1/24/2023 12:16	0.5	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	1/24/2023 12:16	45.49	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	1/24/2023 12:16	-104.75	mv
GN-AP-MW-15R	PH	pH	1/24/2023 12:16	7.58	SU
GN-AP-MW-15R	TEMP	Temperature	1/24/2023 12:16	18.93	C
GN-AP-MW-15R	TURB	Turbidity	1/24/2023 12:16	0.33	NTU
GN-AP-MW-15R	COND	Conductivity	1/24/2023 12:21	940.42	uS/cm
GN-AP-MW-15R	DO	DO	1/24/2023 12:21	0.5	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	1/24/2023 12:21	45.59	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	1/24/2023 12:21	-106.07	mv
GN-AP-MW-15R	PH	pH	1/24/2023 12:21	7.59	SU
GN-AP-MW-15R	TEMP	Temperature	1/24/2023 12:21	18.97	C
GN-AP-MW-15R	TURB	Turbidity	1/24/2023 12:21	0.38	NTU
GN-AP-MW-15R	COND	Conductivity	1/24/2023 12:26	937.76	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-15R	DO	DO	1/24/2023 12:26	0.48	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	1/24/2023 12:26	45.69	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	1/24/2023 12:26	-107.75	mv
GN-AP-MW-15R	PH	pH	1/24/2023 12:26	7.6	SU
GN-AP-MW-15R	SULFIDE	Sulfide	1/24/2023 12:26	0	mg/L
GN-AP-MW-15R	TEMP	Temperature	1/24/2023 12:26	19.05	C
GN-AP-MW-15R	TURB	Turbidity	1/24/2023 12:26	0.33	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 13:57	521.76	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 13:57	0.27	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 13:57	44.41	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 13:57	-228.99	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 13:57	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 13:57	19.82	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 13:57	0.53	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:02	521.94	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:02	0.3	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:02	45.89	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:02	-236.38	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:02	7.81	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:02	19.8	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:02	0.39	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:07	522.25	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:07	0.33	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:07	45.84	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:07	-240.74	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:07	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:07	19.74	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:07	0.5	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:12	522.66	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:12	0.35	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:12	47.62	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:12	-244.77	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:12	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:12	19.79	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:12	0.48	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:17	523.18	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:17	0.36	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:17	48.83	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:17	-247.21	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:17	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:17	19.67	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:17	0.58	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:22	522.98	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:22	0.37	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:22	49.52	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:22	-250.44	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:22	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:22	19.79	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:22	0.5	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:27	523.08	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:27	0.36	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:27	50.24	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:27	-252.89	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:27	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:27	19.84	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:27	0.44	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:32	523.23	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	DO	DO	1/24/2023 14:32	0.37	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:32	50.94	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:32	-254.54	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:32	7.78	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:32	19.73	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:32	0.65	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:37	523.22	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:37	0.37	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:37	52.16	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:37	-257.01	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:37	7.78	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:37	19.79	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:37	0.37	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:42	523.22	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:42	0.36	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:42	52.91	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:42	-258.56	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:42	7.77	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:42	19.7	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:42	0.45	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:47	523.35	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:47	0.37	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:47	53.76	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:47	-262.05	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:47	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:47	19.67	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:47	0.54	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:52	523.5	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:52	0.37	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:52	54.29	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:52	-263.11	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:52	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:52	19.67	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:52	0.42	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 14:57	523.6	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 14:57	0.37	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 14:57	55.22	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 14:57	-264.23	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 14:57	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 14:57	19.7	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 14:57	0.48	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:02	523.5	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:02	0.39	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:02	55.88	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:02	-264.58	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:02	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:02	19.66	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:02	0.44	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:07	523.54	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:07	0.38	mg/L

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:07	57.23	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:07	-266.11	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:07	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:07	19.61	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:07	0.43	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:12	523.78	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:12	0.37	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:12	57.95	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:12	-267.16	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:12	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:12	19.63	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:12	0.43	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:17	523.59	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:17	0.39	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:17	58.62	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:17	-267.85	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:17	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:17	19.6	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:17	0.63	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:22	523.73	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:22	0.38	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:22	59.21	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:22	-268.5	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:22	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:22	19.56	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:22	0.57	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:27	523.89	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:27	0.38	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:27	59.98	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:27	-269.3	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:27	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:27	19.61	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:27	0.42	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:32	523.99	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:32	0.38	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:32	60.89	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:32	-270.36	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:32	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:32	19.63	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:32	0.46	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:37	523.99	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:37	0.39	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:37	61.75	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:37	-269.98	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:37	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:37	19.56	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:37	0.35	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:42	523.84	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:42	0.39	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:42	62.49	ft

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:42	-271.5	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:42	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:42	19.49	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:42	0.36	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:47	523.53	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:47	0.43	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:47	63.02	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:47	-273.63	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:47	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:47	19.25	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:47	0.57	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:52	522.97	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:52	0.56	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:52	63.16	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:52	-270.11	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:52	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:52	18.73	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:52	0.43	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 15:57	522.91	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 15:57	0.77	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 15:57	63.23	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 15:57	-266.43	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 15:57	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 15:57	18.65	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 15:57	0.45	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 16:02	523.09	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 16:02	0.96	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 16:02	63.3	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 16:02	-263.35	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 16:02	7.79	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 16:02	18.61	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 16:02	0.42	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 16:07	523.2	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 16:07	1.02	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 16:07	63.36	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 16:07	-261.92	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 16:07	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 16:07	18.57	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 16:07	0.39	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 16:12	522.83	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 16:12	0.99	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 16:12	63.43	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 16:12	-262.26	mv
GN-AP-MW-31VR	PH	pH	1/24/2023 16:12	7.8	SU
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 16:12	18.64	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 16:12	0.4	NTU
GN-AP-MW-31VR	COND	Conductivity	1/24/2023 16:17	523.18	uS/cm
GN-AP-MW-31VR	DO	DO	1/24/2023 16:17	0.96	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	1/24/2023 16:17	63.58	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	1/24/2023 16:17	-262.37	mv

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	PH	pH	1/24/2023 16:17	7.8	SU
GN-AP-MW-31VR	SULFIDE	Sulfide	1/24/2023 16:17	10	mg/L
GN-AP-MW-31VR	TEMP	Temperature	1/24/2023 16:17	18.51	C
GN-AP-MW-31VR	TURB	Turbidity	1/24/2023 16:17	0.5	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-9	COND	Conductivity	1/25/2023 10:08	414.53	uS/cm
GN-AP-MW-9	DO	DO	1/25/2023 10:08	2.23	mg/L
GN-AP-MW-9	DTW	Depth to Water Detail	1/25/2023 10:08	8.36	ft
GN-AP-MW-9	ORP	Oxidation Reduction Potention	1/25/2023 10:08	-131.38	mv
GN-AP-MW-9	PH	pH	1/25/2023 10:08	7.69	SU
GN-AP-MW-9	TEMP	Temperature	1/25/2023 10:08	14.8	C
GN-AP-MW-9	TURB	Turbidity	1/25/2023 10:08	0.36	NTU
GN-AP-MW-9	COND	Conductivity	1/25/2023 10:24	414.61	uS/cm
GN-AP-MW-9	DO	DO	1/25/2023 10:24	1.56	mg/L
GN-AP-MW-9	DTW	Depth to Water Detail	1/25/2023 10:24	9.92	ft
GN-AP-MW-9	ORP	Oxidation Reduction Potention	1/25/2023 10:24	-123.32	mv
GN-AP-MW-9	PH	pH	1/25/2023 10:24	7.75	SU
GN-AP-MW-9	SULFIDE	Sulfide	1/25/2023 10:24	0	mg/L
GN-AP-MW-9	TEMP	Temperature	1/25/2023 10:24	14.84	C
GN-AP-MW-9	TURB	Turbidity	1/25/2023 10:24	0.42	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-8	COND	Conductivity	1/25/2023 12:16	486.86	uS/cm
GN-AP-MW-8	DO	DO	1/25/2023 12:16	1.83	mg/L
GN-AP-MW-8	DTW	Depth to Water Detail	1/25/2023 12:16	15.18	ft
GN-AP-MW-8	ORP	Oxidation Reduction Potention	1/25/2023 12:16	-123.39	mv
GN-AP-MW-8	PH	pH	1/25/2023 12:16	7.45	SU
GN-AP-MW-8	TEMP	Temperature	1/25/2023 12:16	16.92	C
GN-AP-MW-8	TURB	Turbidity	1/25/2023 12:16	0.52	NTU
GN-AP-MW-8	COND	Conductivity	1/25/2023 12:27	485.38	uS/cm
GN-AP-MW-8	DO	DO	1/25/2023 12:27	1.22	mg/L
GN-AP-MW-8	DTW	Depth to Water Detail	1/25/2023 12:27	16.32	ft
GN-AP-MW-8	ORP	Oxidation Reduction Potention	1/25/2023 12:27	-132.41	mv
GN-AP-MW-8	PH	pH	1/25/2023 12:27	7.45	SU
GN-AP-MW-8	SULFIDE	Sulfide	1/25/2023 12:27	0	mg/L
GN-AP-MW-8	TEMP	Temperature	1/25/2023 12:27	17.01	C
GN-AP-MW-8	TURB	Turbidity	1/25/2023 12:27	0.62	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-11	COND	Conductivity	1/25/2023 13:51	382.59	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 13:51	3.95	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 13:51	8.89	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 13:51	2.17	mv
GN-AP-MW-11	PH	pH	1/25/2023 13:51	7.7	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 13:51	18.11	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 13:51	3.7	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 13:56	374.35	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 13:56	5.97	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 13:56	9.35	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 13:56	14.14	mv
GN-AP-MW-11	PH	pH	1/25/2023 13:56	7.69	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 13:56	18.26	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 13:56	2.73	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:01	377.24	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:01	6.81	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:01	10.39	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:01	20.91	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:01	7.71	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:01	18.29	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:01	1.95	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:06	396.5	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:06	10.76	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:06	11.63	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:06	22.46	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:06	7.84	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:06	19.16	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:06	2.3	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:11	397.13	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:11	7.54	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:11	12.61	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:11	7.75	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:11	7.69	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:11	18.33	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:11	2.96	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:16	380.26	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:16	10.46	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:16	13.7	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:16	-15.24	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:16	7.85	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:16	19.06	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:16	2.06	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:21	360.08	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:21	9.51	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:21	14.32	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:21	-31.13	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:21	7.84	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:21	17.47	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:21	1.76	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:26	386.77	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-11	DO	DO	1/25/2023 14:26	3.77	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:26	14.32	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:26	-28.43	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:26	7.7	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:26	17.91	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:26	9.49	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:31	395.16	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:31	2.52	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:31	14.32	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:31	-33.1	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:31	7.72	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:31	18	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:31	3.63	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:36	403.1	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:36	2.61	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:36	14.32	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:36	-24.95	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:36	7.76	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:36	18.02	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:36	3.35	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:41	407.27	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:41	2.69	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:41	14.32	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:41	-11.6	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:41	7.79	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:41	17.96	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:41	1.98	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:46	408.87	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:46	2.74	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:46	14.32	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:46	-1.54	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:46	7.8	SU
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:46	17.91	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:46	2.28	NTU
GN-AP-MW-11	COND	Conductivity	1/25/2023 14:51	408.92	uS/cm
GN-AP-MW-11	DO	DO	1/25/2023 14:51	2.77	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	1/25/2023 14:51	14.32	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	1/25/2023 14:51	3.45	mv
GN-AP-MW-11	PH	pH	1/25/2023 14:51	7.81	SU
GN-AP-MW-11	SULFIDE	Sulfide	1/25/2023 14:51	0	mg/L
GN-AP-MW-11	TEMP	Temperature	1/25/2023 14:51	17.81	C
GN-AP-MW-11	TURB	Turbidity	1/25/2023 14:51	2.33	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-14	COND	Conductivity	1/31/2023 14:27	468.45	uS/cm
GN-AP-MW-14	DO	DO	1/31/2023 14:27	0.29	mg/L
GN-AP-MW-14	DTW	Depth to Water Detail	1/31/2023 14:27	28.66	ft
GN-AP-MW-14	ORP	Oxidation Reduction Potention	1/31/2023 14:27	-186.63	mv
GN-AP-MW-14	PH	pH	1/31/2023 14:27	7.63	SU
GN-AP-MW-14	TEMP	Temperature	1/31/2023 14:27	19.72	C
GN-AP-MW-14	TURB	Turbidity	1/31/2023 14:27	1.59	NTU
GN-AP-MW-14	COND	Conductivity	1/31/2023 14:32	468.79	uS/cm
GN-AP-MW-14	DO	DO	1/31/2023 14:32	0.25	mg/L
GN-AP-MW-14	DTW	Depth to Water Detail	1/31/2023 14:32	28.74	ft
GN-AP-MW-14	ORP	Oxidation Reduction Potention	1/31/2023 14:32	-187.63	mv
GN-AP-MW-14	PH	pH	1/31/2023 14:32	7.63	SU
GN-AP-MW-14	TEMP	Temperature	1/31/2023 14:32	19.68	C
GN-AP-MW-14	TURB	Turbidity	1/31/2023 14:32	0.58	NTU
GN-AP-MW-14	COND	Conductivity	1/31/2023 14:37	471.6	uS/cm
GN-AP-MW-14	DO	DO	1/31/2023 14:37	0.22	mg/L
GN-AP-MW-14	DTW	Depth to Water Detail	1/31/2023 14:37	28.77	ft
GN-AP-MW-14	ORP	Oxidation Reduction Potention	1/31/2023 14:37	-186.88	mv
GN-AP-MW-14	PH	pH	1/31/2023 14:37	7.61	SU
GN-AP-MW-14	TEMP	Temperature	1/31/2023 14:37	19.67	C
GN-AP-MW-14	TURB	Turbidity	1/31/2023 14:37	0.5	NTU
GN-AP-MW-14	COND	Conductivity	1/31/2023 14:42	481.63	uS/cm
GN-AP-MW-14	DO	DO	1/31/2023 14:42	0.2	mg/L
GN-AP-MW-14	DTW	Depth to Water Detail	1/31/2023 14:42	28.83	ft
GN-AP-MW-14	ORP	Oxidation Reduction Potention	1/31/2023 14:42	-184.67	mv
GN-AP-MW-14	PH	pH	1/31/2023 14:42	7.62	SU
GN-AP-MW-14	SULFIDE	Sulfide	1/31/2023 14:42	0	mg/L
GN-AP-MW-14	TEMP	Temperature	1/31/2023 14:42	19.74	C
GN-AP-MW-14	TURB	Turbidity	1/31/2023 14:42	0.5	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	COND	Conductivity	2/1/2023 10:51	48.51	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 10:51	6.75	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 10:51	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 10:51	205.79	mv
GN-AP-MW-42	PH	pH	2/1/2023 10:51	5.33	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 10:51	17.57	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 10:51	6.54	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 10:56	50.63	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 10:56	6.67	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 10:56	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 10:56	212.14	mv
GN-AP-MW-42	PH	pH	2/1/2023 10:56	5.44	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 10:56	17.61	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 10:56	7.25	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:01	60.07	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:01	6.59	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:01	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:01	211.25	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:01	5.65	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:01	17.67	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:01	5.65	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:06	73.7	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:06	6.52	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:06	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:06	199.84	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:06	5.88	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:06	17.67	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:06	3.51	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:11	85.46	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:11	6.47	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:11	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:11	193.79	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:11	6.02	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:11	17.71	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:11	4.33	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:16	94.49	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:16	6.45	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:16	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:16	183.73	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:16	6.19	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:16	17.78	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:16	4.04	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:21	100.94	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:21	6.42	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:21	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:21	182.48	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:21	6.23	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:21	17.8	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:21	5.58	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:26	107.11	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	DO	DO	2/1/2023 11:26	6.46	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:26	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:26	187.9	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:26	6.25	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:26	17.72	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:26	3.89	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:31	111.65	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:31	6.44	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:31	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:31	182.23	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:31	6.39	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:31	17.72	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:31	3.46	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:36	115.44	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:36	6.42	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:36	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:36	180.85	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:36	6.44	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:36	17.71	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:36	3.54	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:41	118.61	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:41	6.41	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:41	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:41	179.94	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:41	6.47	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:41	17.72	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:41	2.98	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:46	121.67	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:46	6.4	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:46	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:46	178.44	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:46	6.49	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:46	17.67	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:46	3.26	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:51	123.8	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:51	6.4	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:51	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:51	174.39	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:51	6.52	SU
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:51	17.71	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:51	3.25	NTU
GN-AP-MW-42	COND	Conductivity	2/1/2023 11:56	125.9	uS/cm
GN-AP-MW-42	DO	DO	2/1/2023 11:56	6.38	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	2/1/2023 11:56	33.01	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	2/1/2023 11:56	178.55	mv
GN-AP-MW-42	PH	pH	2/1/2023 11:56	6.52	SU
GN-AP-MW-42	SULFIDE	Sulfide	2/1/2023 11:56	0	mg/L
GN-AP-MW-42	TEMP	Temperature	2/1/2023 11:56	17.75	C
GN-AP-MW-42	TURB	Turbidity	2/1/2023 11:56	3.79	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-40	COND	Conductivity	2/1/2023 13:17	190.24	uS/cm
GN-AP-MW-40	DO	DO	2/1/2023 13:17	7.22	mg/L
GN-AP-MW-40	DTW	Depth to Water Detail	2/1/2023 13:17	13.71	ft
GN-AP-MW-40	ORP	Oxidation Reduction Potention	2/1/2023 13:17	64.21	mv
GN-AP-MW-40	PH	pH	2/1/2023 13:17	7.96	SU
GN-AP-MW-40	TEMP	Temperature	2/1/2023 13:17	18.11	C
GN-AP-MW-40	TURB	Turbidity	2/1/2023 13:17	4.51	NTU
GN-AP-MW-40	COND	Conductivity	2/1/2023 13:22	190.59	uS/cm
GN-AP-MW-40	DO	DO	2/1/2023 13:22	7.18	mg/L
GN-AP-MW-40	DTW	Depth to Water Detail	2/1/2023 13:22	13.71	ft
GN-AP-MW-40	ORP	Oxidation Reduction Potention	2/1/2023 13:22	64.92	mv
GN-AP-MW-40	PH	pH	2/1/2023 13:22	8.01	SU
GN-AP-MW-40	TEMP	Temperature	2/1/2023 13:22	18.16	C
GN-AP-MW-40	TURB	Turbidity	2/1/2023 13:22	2.48	NTU
GN-AP-MW-40	COND	Conductivity	2/1/2023 13:27	190.52	uS/cm
GN-AP-MW-40	DO	DO	2/1/2023 13:27	7.2	mg/L
GN-AP-MW-40	DTW	Depth to Water Detail	2/1/2023 13:27	13.71	ft
GN-AP-MW-40	ORP	Oxidation Reduction Potention	2/1/2023 13:27	67.83	mv
GN-AP-MW-40	PH	pH	2/1/2023 13:27	8.03	SU
GN-AP-MW-40	TEMP	Temperature	2/1/2023 13:27	18.14	C
GN-AP-MW-40	TURB	Turbidity	2/1/2023 13:27	2.23	NTU
GN-AP-MW-40	COND	Conductivity	2/1/2023 13:32	190.53	uS/cm
GN-AP-MW-40	DO	DO	2/1/2023 13:32	7.21	mg/L
GN-AP-MW-40	DTW	Depth to Water Detail	2/1/2023 13:32	13.71	ft
GN-AP-MW-40	ORP	Oxidation Reduction Potention	2/1/2023 13:32	70.6	mv
GN-AP-MW-40	PH	pH	2/1/2023 13:32	8.04	SU
GN-AP-MW-40	SULFIDE	Sulfide	2/1/2023 13:32	0	mg/L
GN-AP-MW-40	TEMP	Temperature	2/1/2023 13:32	18.16	C
GN-AP-MW-40	TURB	Turbidity	2/1/2023 13:32	2.06	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-41	COND	Conductivity	2/1/2023 14:22	244.85	uS/cm
GN-AP-MW-41	DO	DO	2/1/2023 14:22	4.94	mg/L
GN-AP-MW-41	DTW	Depth to Water Detail	2/1/2023 14:22	7.03	ft
GN-AP-MW-41	ORP	Oxidation Reduction Potention	2/1/2023 14:22	64.74	mv
GN-AP-MW-41	PH	pH	2/1/2023 14:22	7.74	SU
GN-AP-MW-41	TEMP	Temperature	2/1/2023 14:22	17.26	C
GN-AP-MW-41	TURB	Turbidity	2/1/2023 14:22	4.4	NTU
GN-AP-MW-41	COND	Conductivity	2/1/2023 14:27	246.09	uS/cm
GN-AP-MW-41	DO	DO	2/1/2023 14:27	4.91	mg/L
GN-AP-MW-41	DTW	Depth to Water Detail	2/1/2023 14:27	7.03	ft
GN-AP-MW-41	ORP	Oxidation Reduction Potention	2/1/2023 14:27	71.23	mv
GN-AP-MW-41	PH	pH	2/1/2023 14:27	7.74	SU
GN-AP-MW-41	TEMP	Temperature	2/1/2023 14:27	17.27	C
GN-AP-MW-41	TURB	Turbidity	2/1/2023 14:27	3.98	NTU
GN-AP-MW-41	COND	Conductivity	2/1/2023 14:32	246.35	uS/cm
GN-AP-MW-41	DO	DO	2/1/2023 14:32	4.94	mg/L
GN-AP-MW-41	DTW	Depth to Water Detail	2/1/2023 14:32	7.03	ft
GN-AP-MW-41	ORP	Oxidation Reduction Potention	2/1/2023 14:32	75.56	mv
GN-AP-MW-41	PH	pH	2/1/2023 14:32	7.75	SU
GN-AP-MW-41	TEMP	Temperature	2/1/2023 14:32	17.26	C
GN-AP-MW-41	TURB	Turbidity	2/1/2023 14:32	3.2	NTU
GN-AP-MW-41	COND	Conductivity	2/1/2023 14:37	246.42	uS/cm
GN-AP-MW-41	DO	DO	2/1/2023 14:37	4.95	mg/L
GN-AP-MW-41	DTW	Depth to Water Detail	2/1/2023 14:37	7.03	ft
GN-AP-MW-41	ORP	Oxidation Reduction Potention	2/1/2023 14:37	78.85	mv
GN-AP-MW-41	PH	pH	2/1/2023 14:37	7.75	SU
GN-AP-MW-41	SULFIDE	Sulfide	2/1/2023 14:37	0	mg/L
GN-AP-MW-41	TEMP	Temperature	2/1/2023 14:37	17.28	C
GN-AP-MW-41	TURB	Turbidity	2/1/2023 14:37	2.79	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-38	COND	Conductivity	2/1/2023 15:35	187.28	uS/cm
GN-AP-MW-38	DO	DO	2/1/2023 15:35	4.3	mg/L
GN-AP-MW-38	DTW	Depth to Water Detail	2/1/2023 15:35	5.91	ft
GN-AP-MW-38	ORP	Oxidation Reduction Potention	2/1/2023 15:35	64.05	mv
GN-AP-MW-38	PH	pH	2/1/2023 15:35	8.18	SU
GN-AP-MW-38	TEMP	Temperature	2/1/2023 15:35	17.29	C
GN-AP-MW-38	TURB	Turbidity	2/1/2023 15:35	3.23	NTU
GN-AP-MW-38	COND	Conductivity	2/1/2023 15:40	193.24	uS/cm
GN-AP-MW-38	DO	DO	2/1/2023 15:40	4.34	mg/L
GN-AP-MW-38	DTW	Depth to Water Detail	2/1/2023 15:40	5.91	ft
GN-AP-MW-38	ORP	Oxidation Reduction Potention	2/1/2023 15:40	64.8	mv
GN-AP-MW-38	PH	pH	2/1/2023 15:40	8.18	SU
GN-AP-MW-38	TEMP	Temperature	2/1/2023 15:40	17.31	C
GN-AP-MW-38	TURB	Turbidity	2/1/2023 15:40	5.73	NTU
GN-AP-MW-38	COND	Conductivity	2/1/2023 15:45	193.09	uS/cm
GN-AP-MW-38	DO	DO	2/1/2023 15:45	4.35	mg/L
GN-AP-MW-38	DTW	Depth to Water Detail	2/1/2023 15:45	5.91	ft
GN-AP-MW-38	ORP	Oxidation Reduction Potention	2/1/2023 15:45	66	mv
GN-AP-MW-38	PH	pH	2/1/2023 15:45	8.17	SU
GN-AP-MW-38	TEMP	Temperature	2/1/2023 15:45	17.4	C
GN-AP-MW-38	TURB	Turbidity	2/1/2023 15:45	4.83	NTU
GN-AP-MW-38	COND	Conductivity	2/1/2023 15:50	194.01	uS/cm
GN-AP-MW-38	DO	DO	2/1/2023 15:50	4.33	mg/L
GN-AP-MW-38	DTW	Depth to Water Detail	2/1/2023 15:50	5.91	ft
GN-AP-MW-38	ORP	Oxidation Reduction Potention	2/1/2023 15:50	67.03	mv
GN-AP-MW-38	PH	pH	2/1/2023 15:50	8.18	SU
GN-AP-MW-38	SULFIDE	Sulfide	2/1/2023 15:50	0	mg/L
GN-AP-MW-38	TEMP	Temperature	2/1/2023 15:50	17.49	C
GN-AP-MW-38	TURB	Turbidity	2/1/2023 15:50	4.68	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-12	COND	Conductivity	2/6/2023 11:09	621.65	uS/cm
GN-AP-MW-12	DO	DO	2/6/2023 11:09	0.11	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	2/6/2023 11:09	15.79	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	2/6/2023 11:09	-117.62	mv
GN-AP-MW-12	PH	pH	2/6/2023 11:09	7.43	SU
GN-AP-MW-12	TEMP	Temperature	2/6/2023 11:09	19.46	C
GN-AP-MW-12	TURB	Turbidity	2/6/2023 11:09	0.54	NTU
GN-AP-MW-12	COND	Conductivity	2/6/2023 11:14	621.82	uS/cm
GN-AP-MW-12	DO	DO	2/6/2023 11:14	0.11	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	2/6/2023 11:14	18.31	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	2/6/2023 11:14	-118.55	mv
GN-AP-MW-12	PH	pH	2/6/2023 11:14	7.44	SU
GN-AP-MW-12	TEMP	Temperature	2/6/2023 11:14	19.6	C
GN-AP-MW-12	TURB	Turbidity	2/6/2023 11:14	0.75	NTU
GN-AP-MW-12	COND	Conductivity	2/6/2023 11:19	617.99	uS/cm
GN-AP-MW-12	DO	DO	2/6/2023 11:19	0.11	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	2/6/2023 11:19	20.52	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	2/6/2023 11:19	-119.81	mv
GN-AP-MW-12	PH	pH	2/6/2023 11:19	7.45	SU
GN-AP-MW-12	TEMP	Temperature	2/6/2023 11:19	19.7	C
GN-AP-MW-12	TURB	Turbidity	2/6/2023 11:19	1.88	NTU
GN-AP-MW-12	COND	Conductivity	2/6/2023 11:24	614.74	uS/cm
GN-AP-MW-12	DO	DO	2/6/2023 11:24	0.2	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	2/6/2023 11:24	20.38	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	2/6/2023 11:24	-115.5	mv
GN-AP-MW-12	PH	pH	2/6/2023 11:24	7.45	SU
GN-AP-MW-12	TEMP	Temperature	2/6/2023 11:24	19.41	C
GN-AP-MW-12	TURB	Turbidity	2/6/2023 11:24	0.98	NTU
GN-AP-MW-12	COND	Conductivity	2/6/2023 11:29	613.84	uS/cm
GN-AP-MW-12	DO	DO	2/6/2023 11:29	0.22	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	2/6/2023 11:29	20.38	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	2/6/2023 11:29	-113.09	mv
GN-AP-MW-12	PH	pH	2/6/2023 11:29	7.45	SU
GN-AP-MW-12	TEMP	Temperature	2/6/2023 11:29	19.36	C
GN-AP-MW-12	TURB	Turbidity	2/6/2023 11:29	1.33	NTU
GN-AP-MW-12	COND	Conductivity	2/6/2023 11:34	613.29	uS/cm
GN-AP-MW-12	DO	DO	2/6/2023 11:34	0.23	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	2/6/2023 11:34	20.38	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	2/6/2023 11:34	-111.65	mv
GN-AP-MW-12	PH	pH	2/6/2023 11:34	7.45	SU
GN-AP-MW-12	SULFIDE	Sulfide	2/6/2023 11:34	0	mg/L
GN-AP-MW-12	TEMP	Temperature	2/6/2023 11:34	19.43	C
GN-AP-MW-12	TURB	Turbidity	2/6/2023 11:34	0.81	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-10	COND	Conductivity	2/6/2023 12:56	332.49	uS/cm
GN-AP-MW-10	DO	DO	2/6/2023 12:56	0.71	mg/L
GN-AP-MW-10	DTW	Depth to Water Detail	2/6/2023 12:56	6.81	ft
GN-AP-MW-10	ORP	Oxidation Reduction Potention	2/6/2023 12:56	-62.83	mv
GN-AP-MW-10	PH	pH	2/6/2023 12:56	7.57	SU
GN-AP-MW-10	TEMP	Temperature	2/6/2023 12:56	20.44	C
GN-AP-MW-10	TURB	Turbidity	2/6/2023 12:56	0.36	NTU
GN-AP-MW-10	COND	Conductivity	2/6/2023 13:01	333.61	uS/cm
GN-AP-MW-10	DO	DO	2/6/2023 13:01	0.73	mg/L
GN-AP-MW-10	DTW	Depth to Water Detail	2/6/2023 13:01	6.89	ft
GN-AP-MW-10	ORP	Oxidation Reduction Potention	2/6/2023 13:01	-72.17	mv
GN-AP-MW-10	PH	pH	2/6/2023 13:01	7.57	SU
GN-AP-MW-10	TEMP	Temperature	2/6/2023 13:01	20.23	C
GN-AP-MW-10	TURB	Turbidity	2/6/2023 13:01	0.33	NTU
GN-AP-MW-10	COND	Conductivity	2/6/2023 13:06	334.72	uS/cm
GN-AP-MW-10	DO	DO	2/6/2023 13:06	0.72	mg/L
GN-AP-MW-10	DTW	Depth to Water Detail	2/6/2023 13:06	6.94	ft
GN-AP-MW-10	ORP	Oxidation Reduction Potention	2/6/2023 13:06	-68.65	mv
GN-AP-MW-10	PH	pH	2/6/2023 13:06	7.57	SU
GN-AP-MW-10	TEMP	Temperature	2/6/2023 13:06	20.17	C
GN-AP-MW-10	TURB	Turbidity	2/6/2023 13:06	0.25	NTU
GN-AP-MW-10	COND	Conductivity	2/6/2023 13:11	335.09	uS/cm
GN-AP-MW-10	DO	DO	2/6/2023 13:11	0.78	mg/L
GN-AP-MW-10	DTW	Depth to Water Detail	2/6/2023 13:11	6.94	ft
GN-AP-MW-10	ORP	Oxidation Reduction Potention	2/6/2023 13:11	-59.01	mv
GN-AP-MW-10	PH	pH	2/6/2023 13:11	7.6	SU
GN-AP-MW-10	SULFIDE	Sulfide	2/6/2023 13:11	0	mg/L
GN-AP-MW-10	TEMP	Temperature	2/6/2023 13:11	20.13	C
GN-AP-MW-10	TURB	Turbidity	2/6/2023 13:11	0.3	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-27	COND	Conductivity	2/6/2023 14:46	215	uS/cm
GN-AP-MW-27	DO	DO	2/6/2023 14:46	6.5	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	2/6/2023 14:46	5.69	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	2/6/2023 14:46	95.73	mv
GN-AP-MW-27	PH	pH	2/6/2023 14:46	6.59	SU
GN-AP-MW-27	TEMP	Temperature	2/6/2023 14:46	19.98	C
GN-AP-MW-27	TURB	Turbidity	2/6/2023 14:46	2.82	NTU
GN-AP-MW-27	COND	Conductivity	2/6/2023 14:51	225.71	uS/cm
GN-AP-MW-27	DO	DO	2/6/2023 14:51	6.56	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	2/6/2023 14:51	5.74	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	2/6/2023 14:51	107.62	mv
GN-AP-MW-27	PH	pH	2/6/2023 14:51	6.61	SU
GN-AP-MW-27	TEMP	Temperature	2/6/2023 14:51	19.95	C
GN-AP-MW-27	TURB	Turbidity	2/6/2023 14:51	2.71	NTU
GN-AP-MW-27	COND	Conductivity	2/6/2023 14:56	231.61	uS/cm
GN-AP-MW-27	DO	DO	2/6/2023 14:56	6.57	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	2/6/2023 14:56	5.74	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	2/6/2023 14:56	113.42	mv
GN-AP-MW-27	PH	pH	2/6/2023 14:56	6.67	SU
GN-AP-MW-27	TEMP	Temperature	2/6/2023 14:56	20.05	C
GN-AP-MW-27	TURB	Turbidity	2/6/2023 14:56	1.95	NTU
GN-AP-MW-27	COND	Conductivity	2/6/2023 15:01	237.84	uS/cm
GN-AP-MW-27	DO	DO	2/6/2023 15:01	6.5	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	2/6/2023 15:01	5.74	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	2/6/2023 15:01	115.81	mv
GN-AP-MW-27	PH	pH	2/6/2023 15:01	6.76	SU
GN-AP-MW-27	TEMP	Temperature	2/6/2023 15:01	20.06	C
GN-AP-MW-27	TURB	Turbidity	2/6/2023 15:01	1.9	NTU
GN-AP-MW-27	COND	Conductivity	2/6/2023 15:06	241.81	uS/cm
GN-AP-MW-27	DO	DO	2/6/2023 15:06	6.5	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	2/6/2023 15:06	5.74	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	2/6/2023 15:06	117.47	mv
GN-AP-MW-27	PH	pH	2/6/2023 15:06	6.79	SU
GN-AP-MW-27	SULFIDE	Sulfide	2/6/2023 15:06	0	mg/L
GN-AP-MW-27	TEMP	Temperature	2/6/2023 15:06	20.05	C
GN-AP-MW-27	TURB	Turbidity	2/6/2023 15:06	1.85	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-26	COND	Conductivity	2/7/2023 9:39	567.45	uS/cm
GN-AP-MW-26	DO	DO	2/7/2023 9:39	4.65	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 9:39	13.79	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 9:39	166.23	mv
GN-AP-MW-26	PH	pH	2/7/2023 9:39	7.59	SU
GN-AP-MW-26	TEMP	Temperature	2/7/2023 9:39	17.42	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 9:39	0.38	NTU
GN-AP-MW-26	COND	Conductivity	2/7/2023 9:44	567.67	uS/cm
GN-AP-MW-26	DO	DO	2/7/2023 9:44	4.51	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 9:44	14.45	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 9:44	161.28	mv
GN-AP-MW-26	PH	pH	2/7/2023 9:44	7.58	SU
GN-AP-MW-26	TEMP	Temperature	2/7/2023 9:44	17.53	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 9:44	0.4	NTU
GN-AP-MW-26	COND	Conductivity	2/7/2023 9:49	568.92	uS/cm
GN-AP-MW-26	DO	DO	2/7/2023 9:49	4.35	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 9:49	15.26	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 9:49	156.39	mv
GN-AP-MW-26	PH	pH	2/7/2023 9:49	7.58	SU
GN-AP-MW-26	TEMP	Temperature	2/7/2023 9:49	17.67	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 9:49	0.64	NTU
GN-AP-MW-26	COND	Conductivity	2/7/2023 9:54	570.01	uS/cm
GN-AP-MW-26	DO	DO	2/7/2023 9:54	4.21	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 9:54	15.44	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 9:54	152.49	mv
GN-AP-MW-26	PH	pH	2/7/2023 9:54	7.56	SU
GN-AP-MW-26	TEMP	Temperature	2/7/2023 9:54	17.73	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 9:54	0.6	NTU
GN-AP-MW-26	COND	Conductivity	2/7/2023 9:59	572.85	uS/cm
GN-AP-MW-26	DO	DO	2/7/2023 9:59	4.1	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 9:59	15.44	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 9:59	146.93	mv
GN-AP-MW-26	PH	pH	2/7/2023 9:59	7.57	SU
GN-AP-MW-26	TEMP	Temperature	2/7/2023 9:59	17.7	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 9:59	0.59	NTU
GN-AP-MW-26	COND	Conductivity	2/7/2023 10:04	575.74	uS/cm
GN-AP-MW-26	DO	DO	2/7/2023 10:04	3.95	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 10:04	15.44	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 10:04	141.88	mv
GN-AP-MW-26	PH	pH	2/7/2023 10:04	7.56	SU
GN-AP-MW-26	TEMP	Temperature	2/7/2023 10:04	17.86	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 10:04	0.51	NTU
GN-AP-MW-26	COND	Conductivity	2/7/2023 10:09	578.89	uS/cm
GN-AP-MW-26	DO	DO	2/7/2023 10:09	3.74	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 10:09	15.44	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 10:09	138.14	mv
GN-AP-MW-26	PH	pH	2/7/2023 10:09	7.56	SU
GN-AP-MW-26	TEMP	Temperature	2/7/2023 10:09	17.88	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 10:09	0.49	NTU
GN-AP-MW-26	COND	Conductivity	2/7/2023 10:14	581.78	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-26	DO	DO	2/7/2023 10:14	3.57	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 10:14	15.44	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 10:14	133.29	mv
GN-AP-MW-26	PH	pH	2/7/2023 10:14	7.58	SU
GN-AP-MW-26	TEMP	Temperature	2/7/2023 10:14	17.99	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 10:14	0.42	NTU
GN-AP-MW-26	COND	Conductivity	2/7/2023 10:19	582.31	uS/cm
GN-AP-MW-26	DO	DO	2/7/2023 10:19	3.44	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	2/7/2023 10:19	15.44	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	2/7/2023 10:19	130.8	mv
GN-AP-MW-26	PH	pH	2/7/2023 10:19	7.58	SU
GN-AP-MW-26	SULFIDE	Sulfide	2/7/2023 10:19	0	mg/L
GN-AP-MW-26	TEMP	Temperature	2/7/2023 10:19	18.07	C
GN-AP-MW-26	TURB	Turbidity	2/7/2023 10:19	0.37	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:03	278.87	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:03	3.65	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:03	24.16	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:03	62.47	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:03	7.7	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:03	19.61	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:03	1.45	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:08	276.99	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:08	3.96	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:08	25.33	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:08	69.33	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:08	7.73	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:08	19.49	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:08	1.15	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:13	275.55	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:13	3.96	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:13	25.44	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:13	74.69	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:13	7.71	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:13	19.35	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:13	1.55	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:18	275.55	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:18	4.04	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:18	25.72	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:18	76.83	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:18	7.73	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:18	19.44	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:18	1.91	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:23	275.91	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:23	4.17	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:23	26.13	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:23	78.81	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:23	7.75	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:23	19.46	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:23	2.38	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:28	275.37	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:28	4.24	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:28	26.52	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:28	80.66	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:28	7.76	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:28	19.42	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:28	2.78	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:33	274.99	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:33	4.31	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:33	26.72	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:33	82.2	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:33	7.77	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:33	19.4	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:33	1.98	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:38	274.55	uS/cm

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-3	DO	DO	2/7/2023 12:38	4.42	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:38	26.9	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:38	84.33	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:38	7.77	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:38	19.23	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:38	1.75	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:43	274.49	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:43	4.51	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:43	27.08	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:43	85.48	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:43	7.78	SU
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:43	19.26	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:43	1.71	NTU
GN-AP-MW-3	COND	Conductivity	2/7/2023 12:48	274.35	uS/cm
GN-AP-MW-3	DO	DO	2/7/2023 12:48	4.57	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	2/7/2023 12:48	27.14	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	2/7/2023 12:48	85.92	mv
GN-AP-MW-3	PH	pH	2/7/2023 12:48	7.79	SU
GN-AP-MW-3	SULFIDE	Sulfide	2/7/2023 12:48	0	mg/L
GN-AP-MW-3	TEMP	Temperature	2/7/2023 12:48	19.4	C
GN-AP-MW-3	TURB	Turbidity	2/7/2023 12:48	1.42	NTU

**Field Parameters
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-4	COND	Conductivity	2/7/2023 13:37	501.11	uS/cm
GN-AP-MW-4	DO	DO	2/7/2023 13:37	0.55	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	2/7/2023 13:37	12.49	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	2/7/2023 13:37	-39.57	mv
GN-AP-MW-4	PH	pH	2/7/2023 13:37	7.19	SU
GN-AP-MW-4	TEMP	Temperature	2/7/2023 13:37	19.1	C
GN-AP-MW-4	TURB	Turbidity	2/7/2023 13:37	2.31	NTU
GN-AP-MW-4	COND	Conductivity	2/7/2023 13:42	481.46	uS/cm
GN-AP-MW-4	DO	DO	2/7/2023 13:42	1.16	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	2/7/2023 13:42	12.59	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	2/7/2023 13:42	-1.35	mv
GN-AP-MW-4	PH	pH	2/7/2023 13:42	7.22	SU
GN-AP-MW-4	TEMP	Temperature	2/7/2023 13:42	19.02	C
GN-AP-MW-4	TURB	Turbidity	2/7/2023 13:42	2.97	NTU
GN-AP-MW-4	COND	Conductivity	2/7/2023 13:47	478.63	uS/cm
GN-AP-MW-4	DO	DO	2/7/2023 13:47	1.25	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	2/7/2023 13:47	12.59	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	2/7/2023 13:47	14.72	mv
GN-AP-MW-4	PH	pH	2/7/2023 13:47	7.24	SU
GN-AP-MW-4	TEMP	Temperature	2/7/2023 13:47	18.97	C
GN-AP-MW-4	TURB	Turbidity	2/7/2023 13:47	2.3	NTU
GN-AP-MW-4	COND	Conductivity	2/7/2023 13:52	476.74	uS/cm
GN-AP-MW-4	DO	DO	2/7/2023 13:52	1.31	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	2/7/2023 13:52	12.59	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	2/7/2023 13:52	23.42	mv
GN-AP-MW-4	PH	pH	2/7/2023 13:52	7.26	SU
GN-AP-MW-4	TEMP	Temperature	2/7/2023 13:52	18.97	C
GN-AP-MW-4	TURB	Turbidity	2/7/2023 13:52	1.74	NTU
GN-AP-MW-4	COND	Conductivity	2/7/2023 13:57	474.91	uS/cm
GN-AP-MW-4	DO	DO	2/7/2023 13:57	1.33	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	2/7/2023 13:57	12.59	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	2/7/2023 13:57	27.02	mv
GN-AP-MW-4	PH	pH	2/7/2023 13:57	7.29	SU
GN-AP-MW-4	TEMP	Temperature	2/7/2023 13:57	18.92	C
GN-AP-MW-4	TURB	Turbidity	2/7/2023 13:57	1.44	NTU
GN-AP-MW-4	COND	Conductivity	2/7/2023 14:02	473.31	uS/cm
GN-AP-MW-4	DO	DO	2/7/2023 14:02	1.34	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	2/7/2023 14:02	12.59	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	2/7/2023 14:02	28.35	mv
GN-AP-MW-4	PH	pH	2/7/2023 14:02	7.3	SU
GN-AP-MW-4	SULFIDE	Sulfide	2/7/2023 14:02	0	mg/L
GN-AP-MW-4	TEMP	Temperature	2/7/2023 14:02	18.93	C
GN-AP-MW-4	TURB	Turbidity	2/7/2023 14:02	1.32	NTU

Field Parameters Summary
Plant Gaston Ash Pond - MNA Event 2023 SA01

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:09	393.14	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:09	0.36	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:09	15.98	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:09	-48.79	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:09	7.69	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:09	19.08	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:09	3.97	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:14	393.03	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:14	0.46	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:14	15.98	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:14	-43.78	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:14	7.67	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:14	19.11	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:14	3.97	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:19	393.13	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:19	0.59	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:19	19.52	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:19	-43.96	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:19	7.66	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:19	19.18	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:19	3.92	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:24	393.04	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:24	0.62	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:24	23.41	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:24	-48.61	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:24	7.65	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:24	19.26	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:24	3.99	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:29	392.89	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:29	0.62	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:29	28.49	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:29	-53.45	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:29	7.64	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:29	19.38	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:29	4.22	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:34	392.54	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:34	0.72	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:34	32.21	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:34	-58.62	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:34	7.64	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:34	19.42	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:34	3.69	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:39	392.21	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:39	0.9	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:39	35.8	ft

Field Parameters Summary
Plant Gaston Ash Pond - MNA Event 2023 SA01

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:39	-63.11	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:39	7.64	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:39	19.47	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:39	3.72	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:44	392.04	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:44	1.26	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:44	40.11	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:44	-68.08	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:44	7.65	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:44	19.52	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:44	3.88	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:49	391.5	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:49	2.26	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:49	43.92	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:49	-75.91	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:49	7.7	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:49	19.57	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:49	4.22	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:54	392.39	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:54	3.16	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:54	48.35	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:54	-80.95	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:54	7.75	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:54	19.64	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:54	3.58	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 9:59	392.07	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 9:59	3.72	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 9:59	51.28	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 9:59	-83.61	mv
GN-AP-MW-19	PH	pH	4/11/2023 9:59	7.8	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 9:59	19.67	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 9:59	3.55	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:04	391.96	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:04	4	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:04	54.85	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:04	-86.48	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:04	7.82	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:04	19.62	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:04	2.98	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:09	392.02	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:09	4.11	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:09	57.62	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:09	-88.83	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:09	7.83	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:09	19.62	C

Field Parameters Summary
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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:09	4.97	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:14	392.72	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:14	3.71	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:14	59.22	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:14	-90.22	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:14	7.81	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:14	20.14	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:14	2.62	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:19	396.53	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:19	1.54	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:19	58.35	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:19	-99.3	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:19	7.74	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:19	20.28	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:19	3.5	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:24	396.5	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:24	1.29	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:24	58.51	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:24	-106.83	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:24	7.73	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:24	20.24	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:24	2.61	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:29	396.27	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:29	1.2	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:29	58.68	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:29	-111.11	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:29	7.72	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:29	20.38	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:29	2.64	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:34	396.92	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:34	1.11	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:34	58.88	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:34	-113.56	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:34	7.72	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:34	20.51	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:34	2.5	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:39	396.93	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:39	1.08	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:39	58.5	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:39	-115.52	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:39	7.72	SU
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:39	21.09	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:39	2.07	NTU
GN-AP-MW-19	COND	Conductivity	4/11/2023 10:44	398.21	uS/cm
GN-AP-MW-19	DO	DO	4/11/2023 10:44	1.02	mg/L

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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	DTW	Depth to Water Detail	4/11/2023 10:44	57.98	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	4/11/2023 10:44	-117.15	mv
GN-AP-MW-19	PH	pH	4/11/2023 10:44	7.71	SU
GN-AP-MW-19	SULFIDE	Sulfide	4/11/2023 10:44	0	mg/L
GN-AP-MW-19	TEMP	Temperature	4/11/2023 10:44	21.59	C
GN-AP-MW-19	TURB	Turbidity	4/11/2023 10:44	1.9	NTU

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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	COND	Conductivity	4/10/2023 11:46	997.77	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 11:46	0.11	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 11:46	50.49	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 11:46	-172.06	mv
GN-AP-MW-34V	PH	pH	4/10/2023 11:46	7.94	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 11:46	20.11	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 11:46	0.74	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 11:51	993.39	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 11:51	0.11	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 11:51	52.49	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 11:51	-171.14	mv
GN-AP-MW-34V	PH	pH	4/10/2023 11:51	7.96	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 11:51	20.17	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 11:51	0.57	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 11:56	947.21	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 11:56	0.12	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 11:56	54.3	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 11:56	-169.22	mv
GN-AP-MW-34V	PH	pH	4/10/2023 11:56	7.88	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 11:56	20.27	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 11:56	0.6	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 12:01	945.72	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 12:01	0.13	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 12:01	55.5	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 12:01	-172.38	mv
GN-AP-MW-34V	PH	pH	4/10/2023 12:01	7.89	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 12:01	20.28	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 12:01	0.65	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 12:06	945.25	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 12:06	0.13	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 12:06	56.92	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 12:06	-176.2	mv
GN-AP-MW-34V	PH	pH	4/10/2023 12:06	7.93	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 12:06	20.31	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 12:06	0.68	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 12:11	946.25	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 12:11	0.12	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 12:11	57.6	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 12:11	-179.29	mv
GN-AP-MW-34V	PH	pH	4/10/2023 12:11	7.95	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 12:11	20.32	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 12:11	0.87	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 12:16	949.33	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 12:16	0.12	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 12:16	57.96	ft

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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 12:16	-182.29	mv
GN-AP-MW-34V	PH	pH	4/10/2023 12:16	7.96	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 12:16	20.26	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 12:16	0.78	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 12:21	948.67	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 12:21	0.18	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 12:21	58.1	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 12:21	-185.35	mv
GN-AP-MW-34V	PH	pH	4/10/2023 12:21	7.96	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 12:21	21	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 12:21	0.76	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 12:26	947.57	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 12:26	0.2	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 12:26	57.78	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 12:26	-187.76	mv
GN-AP-MW-34V	PH	pH	4/10/2023 12:26	7.97	SU
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 12:26	21.05	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 12:26	1.03	NTU
GN-AP-MW-34V	COND	Conductivity	4/10/2023 12:31	945.91	uS/cm
GN-AP-MW-34V	DO	DO	4/10/2023 12:31	0.2	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	4/10/2023 12:31	57.58	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	4/10/2023 12:31	-189.63	mv
GN-AP-MW-34V	PH	pH	4/10/2023 12:31	7.97	SU
GN-AP-MW-34V	SULFIDE	Sulfide	4/10/2023 12:31	1	mg/L
GN-AP-MW-34V	TEMP	Temperature	4/10/2023 12:31	21.05	C
GN-AP-MW-34V	TURB	Turbidity	4/10/2023 12:31	0.67	NTU

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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17	COND	Conductivity	4/12/2023 9:04	2374.85	uS/cm
GN-AP-MW-17	DO	DO	4/12/2023 9:04	0.96	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	4/12/2023 9:04	7.78	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	4/12/2023 9:04	-78.34	mv
GN-AP-MW-17	PH	pH	4/12/2023 9:04	9.34	SU
GN-AP-MW-17	TEMP	Temperature	4/12/2023 9:04	19.5	C
GN-AP-MW-17	TURB	Turbidity	4/12/2023 9:04	12.7	NTU
GN-AP-MW-17	COND	Conductivity	4/12/2023 9:09	2296.45	uS/cm
GN-AP-MW-17	DO	DO	4/12/2023 9:09	0.5	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	4/12/2023 9:09	8.76	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	4/12/2023 9:09	-95.66	mv
GN-AP-MW-17	PH	pH	4/12/2023 9:09	9.28	SU
GN-AP-MW-17	TEMP	Temperature	4/12/2023 9:09	19.59	C
GN-AP-MW-17	TURB	Turbidity	4/12/2023 9:09	11.7	NTU
GN-AP-MW-17	COND	Conductivity	4/12/2023 9:14	2258.96	uS/cm
GN-AP-MW-17	DO	DO	4/12/2023 9:14	0.38	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	4/12/2023 9:14	9.2	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	4/12/2023 9:14	-108.79	mv
GN-AP-MW-17	PH	pH	4/12/2023 9:14	9.25	SU
GN-AP-MW-17	TEMP	Temperature	4/12/2023 9:14	19.67	C
GN-AP-MW-17	TURB	Turbidity	4/12/2023 9:14	10.6	NTU
GN-AP-MW-17	COND	Conductivity	4/12/2023 9:19	2210.58	uS/cm
GN-AP-MW-17	DO	DO	4/12/2023 9:19	0.35	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	4/12/2023 9:19	9.39	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	4/12/2023 9:19	-116.98	mv
GN-AP-MW-17	PH	pH	4/12/2023 9:19	9.24	SU
GN-AP-MW-17	TEMP	Temperature	4/12/2023 9:19	19.65	C
GN-AP-MW-17	TURB	Turbidity	4/12/2023 9:19	10.26	NTU
GN-AP-MW-17	COND	Conductivity	4/12/2023 9:24	2187.81	uS/cm
GN-AP-MW-17	DO	DO	4/12/2023 9:24	0.32	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	4/12/2023 9:24	9.46	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	4/12/2023 9:24	-122.99	mv
GN-AP-MW-17	PH	pH	4/12/2023 9:24	9.24	SU
GN-AP-MW-17	SULFIDE	Sulfide	4/12/2023 9:24	0	mg/L
GN-AP-MW-17	TEMP	Temperature	4/12/2023 9:24	19.76	C
GN-AP-MW-17	TURB	Turbidity	4/12/2023 9:24	7.28	NTU

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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20	COND	Conductivity	4/11/2023 13:03	917.98	uS/cm
GN-AP-MW-20	DO	DO	4/11/2023 13:03	1.17	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	4/11/2023 13:03	9.75	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	4/11/2023 13:03	-39.24	mv
GN-AP-MW-20	PH	pH	4/11/2023 13:03	7.94	SU
GN-AP-MW-20	TEMP	Temperature	4/11/2023 13:03	20.3	C
GN-AP-MW-20	TURB	Turbidity	4/11/2023 13:03	68.8	NTU
GN-AP-MW-20	COND	Conductivity	4/11/2023 13:08	1117.39	uS/cm
GN-AP-MW-20	DO	DO	4/11/2023 13:08	1.05	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	4/11/2023 13:08	10.12	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	4/11/2023 13:08	-68.25	mv
GN-AP-MW-20	PH	pH	4/11/2023 13:08	7.83	SU
GN-AP-MW-20	TEMP	Temperature	4/11/2023 13:08	20.24	C
GN-AP-MW-20	TURB	Turbidity	4/11/2023 13:08	53.4	NTU
GN-AP-MW-20	COND	Conductivity	4/11/2023 13:13	1105.84	uS/cm
GN-AP-MW-20	DO	DO	4/11/2023 13:13	0.94	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	4/11/2023 13:13	10.31	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	4/11/2023 13:13	-76.16	mv
GN-AP-MW-20	PH	pH	4/11/2023 13:13	7.77	SU
GN-AP-MW-20	TEMP	Temperature	4/11/2023 13:13	20.23	C
GN-AP-MW-20	TURB	Turbidity	4/11/2023 13:13	16.2	NTU
GN-AP-MW-20	COND	Conductivity	4/11/2023 13:18	1043.25	uS/cm
GN-AP-MW-20	DO	DO	4/11/2023 13:18	0.84	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	4/11/2023 13:18	10.31	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	4/11/2023 13:18	-75.7	mv
GN-AP-MW-20	PH	pH	4/11/2023 13:18	7.77	SU
GN-AP-MW-20	TEMP	Temperature	4/11/2023 13:18	20.08	C
GN-AP-MW-20	TURB	Turbidity	4/11/2023 13:18	10.2	NTU
GN-AP-MW-20	COND	Conductivity	4/11/2023 13:23	1106.64	uS/cm
GN-AP-MW-20	DO	DO	4/11/2023 13:23	0.89	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	4/11/2023 13:23	10.31	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	4/11/2023 13:23	-75.2	mv
GN-AP-MW-20	PH	pH	4/11/2023 13:23	7.77	SU
GN-AP-MW-20	TEMP	Temperature	4/11/2023 13:23	20.11	C
GN-AP-MW-20	TURB	Turbidity	4/11/2023 13:23	7.77	NTU
GN-AP-MW-20	COND	Conductivity	4/11/2023 13:28	1106.63	uS/cm
GN-AP-MW-20	DO	DO	4/11/2023 13:28	0.82	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	4/11/2023 13:28	10.31	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	4/11/2023 13:28	-76.65	mv
GN-AP-MW-20	PH	pH	4/11/2023 13:28	7.79	SU
GN-AP-MW-20	TEMP	Temperature	4/11/2023 13:28	20.19	C
GN-AP-MW-20	TURB	Turbidity	4/11/2023 13:28	6.77	NTU
GN-AP-MW-20	COND	Conductivity	4/11/2023 13:33	1098.43	uS/cm
GN-AP-MW-20	DO	DO	4/11/2023 13:33	0.74	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	4/11/2023 13:33	10.31	ft

Field Parameters Summary
Plant Gaston Ash Pond - MNA Event 2023 SA01

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20	ORP	Oxidation Reduction Potention	4/11/2023 13:33	-76.49	mv
GN-AP-MW-20	PH	pH	4/11/2023 13:33	7.8	SU
GN-AP-MW-20	SULFIDE	Sulfide	4/11/2023 13:33	0	mg/L
GN-AP-MW-20	TEMP	Temperature	4/11/2023 13:33	20.18	C
GN-AP-MW-20	TURB	Turbidity	4/11/2023 13:33	5.82	NTU

Field Parameters Summary
Plant Gaston Ash Pond - MNA Event 2023 SA01

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-35V	COND	Conductivity	4/10/2023 12:53	433.52	uS/cm
GN-AP-MW-35V	DO	DO	4/10/2023 12:53	0.18	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	4/10/2023 12:53	48.56	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	4/10/2023 12:53	-172.07	mv
GN-AP-MW-35V	PH	pH	4/10/2023 12:53	8.17	SU
GN-AP-MW-35V	TEMP	Temperature	4/10/2023 12:53	19.72	C
GN-AP-MW-35V	TURB	Turbidity	4/10/2023 12:53	2.88	NTU
GN-AP-MW-35V	COND	Conductivity	4/10/2023 12:58	438.96	uS/cm
GN-AP-MW-35V	DO	DO	4/10/2023 12:58	0.15	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	4/10/2023 12:58	49.65	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	4/10/2023 12:58	-177.96	mv
GN-AP-MW-35V	PH	pH	4/10/2023 12:58	8.19	SU
GN-AP-MW-35V	TEMP	Temperature	4/10/2023 12:58	19.8	C
GN-AP-MW-35V	TURB	Turbidity	4/10/2023 12:58	2.36	NTU
GN-AP-MW-35V	COND	Conductivity	4/10/2023 13:03	437.81	uS/cm
GN-AP-MW-35V	DO	DO	4/10/2023 13:03	0.16	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	4/10/2023 13:03	50.51	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	4/10/2023 13:03	-173.59	mv
GN-AP-MW-35V	PH	pH	4/10/2023 13:03	8.15	SU
GN-AP-MW-35V	TEMP	Temperature	4/10/2023 13:03	19.77	C
GN-AP-MW-35V	TURB	Turbidity	4/10/2023 13:03	2.2	NTU
GN-AP-MW-35V	COND	Conductivity	4/10/2023 13:08	437.82	uS/cm
GN-AP-MW-35V	DO	DO	4/10/2023 13:08	0.18	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	4/10/2023 13:08	51.66	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	4/10/2023 13:08	-174.69	mv
GN-AP-MW-35V	PH	pH	4/10/2023 13:08	8.18	SU
GN-AP-MW-35V	TEMP	Temperature	4/10/2023 13:08	19.75	C
GN-AP-MW-35V	TURB	Turbidity	4/10/2023 13:08	1.66	NTU
GN-AP-MW-35V	COND	Conductivity	4/10/2023 13:13	438.84	uS/cm
GN-AP-MW-35V	DO	DO	4/10/2023 13:13	0.39	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	4/10/2023 13:13	51.97	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	4/10/2023 13:13	-174.65	mv
GN-AP-MW-35V	PH	pH	4/10/2023 13:13	8.18	SU
GN-AP-MW-35V	TEMP	Temperature	4/10/2023 13:13	20.86	C
GN-AP-MW-35V	TURB	Turbidity	4/10/2023 13:13	2.11	NTU
GN-AP-MW-35V	COND	Conductivity	4/10/2023 13:18	438.24	uS/cm
GN-AP-MW-35V	DO	DO	4/10/2023 13:18	0.48	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	4/10/2023 13:18	52.11	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	4/10/2023 13:18	-174.19	mv
GN-AP-MW-35V	PH	pH	4/10/2023 13:18	8.18	SU
GN-AP-MW-35V	TEMP	Temperature	4/10/2023 13:18	21.22	C
GN-AP-MW-35V	TURB	Turbidity	4/10/2023 13:18	1.72	NTU
GN-AP-MW-35V	COND	Conductivity	4/10/2023 13:23	438.34	uS/cm
GN-AP-MW-35V	DO	DO	4/10/2023 13:23	0.58	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	4/10/2023 13:23	52.23	ft

Field Parameters Summary
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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	4/10/2023 13:23	-172.8	mv
GN-AP-MW-35V	PH	pH	4/10/2023 13:23	8.19	SU
GN-AP-MW-35V	SULFIDE	Sulfide	4/10/2023 13:23	1	mg/L
GN-AP-MW-35V	TEMP	Temperature	4/10/2023 13:23	21.34	C
GN-AP-MW-35V	TURB	Turbidity	4/10/2023 13:23	1.68	NTU

Field Parameters Summary
Plant Gaston Ash Pond - MNA Event 2023 SA01

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-36V	COND	Conductivity	4/11/2023 8:25	946.64	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 8:25	0.25	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 8:25	44.68	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 8:25	-219.79	mv
GN-AP-MW-36V	PH	pH	4/11/2023 8:25	8.07	SU
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 8:25	19.73	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 8:25	3.42	NTU
GN-AP-MW-36V	COND	Conductivity	4/11/2023 8:30	940.48	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 8:30	0.26	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 8:30	45.32	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 8:30	-209.04	mv
GN-AP-MW-36V	PH	pH	4/11/2023 8:30	8.08	SU
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 8:30	19.66	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 8:30	3.1	NTU
GN-AP-MW-36V	COND	Conductivity	4/11/2023 8:35	895.74	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 8:35	0.29	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 8:35	46.2	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 8:35	-198.97	mv
GN-AP-MW-36V	PH	pH	4/11/2023 8:35	8.1	SU
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 8:35	19.9	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 8:35	2.31	NTU
GN-AP-MW-36V	COND	Conductivity	4/11/2023 8:40	849.74	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 8:40	0.71	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 8:40	46.63	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 8:40	-190.28	mv
GN-AP-MW-36V	PH	pH	4/11/2023 8:40	8.13	SU
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 8:40	18.83	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 8:40	2.3	NTU
GN-AP-MW-36V	COND	Conductivity	4/11/2023 8:45	842.88	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 8:45	0.39	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 8:45	46.76	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 8:45	-182.18	mv
GN-AP-MW-36V	PH	pH	4/11/2023 8:45	8.13	SU
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 8:45	18.47	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 8:45	2.33	NTU
GN-AP-MW-36V	COND	Conductivity	4/11/2023 8:50	845.82	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 8:50	0.83	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 8:50	46.9	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 8:50	-178.01	mv
GN-AP-MW-36V	PH	pH	4/11/2023 8:50	8.14	SU
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 8:50	18.29	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 8:50	2.15	NTU
GN-AP-MW-36V	COND	Conductivity	4/11/2023 8:55	927.17	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 8:55	1.22	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 8:55	47.02	ft

Field Parameters Summary
Plant Gaston Ash Pond - MNA Event 2023 SA01

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 8:55	-172.03	mv
GN-AP-MW-36V	PH	pH	4/11/2023 8:55	8.13	SU
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 8:55	18.7	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 8:55	1.96	NTU
GN-AP-MW-36V	COND	Conductivity	4/11/2023 9:00	927.26	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 9:00	1.2	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 9:00	47.11	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 9:00	-168.23	mv
GN-AP-MW-36V	PH	pH	4/11/2023 9:00	8.14	SU
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 9:00	18.69	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 9:00	2.07	NTU
GN-AP-MW-36V	COND	Conductivity	4/11/2023 9:05	927.84	uS/cm
GN-AP-MW-36V	DO	DO	4/11/2023 9:05	1.21	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	4/11/2023 9:05	47.22	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	4/11/2023 9:05	-165.39	mv
GN-AP-MW-36V	PH	pH	4/11/2023 9:05	8.13	SU
GN-AP-MW-36V	SULFIDE	Sulfide	4/11/2023 9:05	3	mg/L
GN-AP-MW-36V	TEMP	Temperature	4/11/2023 9:05	18.66	C
GN-AP-MW-36V	TURB	Turbidity	4/11/2023 9:05	1.96	NTU

Field Parameters Summary
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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	COND	Conductivity	4/12/2023 12:20	34.42	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 12:20	7.66	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 12:20	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 12:20	205.32	mv
GN-AP-MW-42	PH	pH	4/12/2023 12:20	5.66	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 12:20	18.78	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 12:20	38.6	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 12:25	37.05	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 12:25	7.53	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 12:25	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 12:25	235.17	mv
GN-AP-MW-42	PH	pH	4/12/2023 12:25	5.66	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 12:25	18.59	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 12:25	45.5	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 12:30	42.29	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 12:30	7.47	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 12:30	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 12:30	241.6	mv
GN-AP-MW-42	PH	pH	4/12/2023 12:30	5.75	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 12:30	18.68	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 12:30	33.7	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 12:35	46.71	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 12:35	7.56	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 12:35	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 12:35	241.81	mv
GN-AP-MW-42	PH	pH	4/12/2023 12:35	5.84	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 12:35	18.69	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 12:35	26.9	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 12:40	51.88	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 12:40	7.6	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 12:40	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 12:40	240.49	mv
GN-AP-MW-42	PH	pH	4/12/2023 12:40	5.92	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 12:40	18.62	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 12:40	22.3	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 12:45	58.89	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 12:45	7.66	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 12:45	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 12:45	236.62	mv
GN-AP-MW-42	PH	pH	4/12/2023 12:45	6.01	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 12:45	18.59	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 12:45	17.8	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 12:50	65.86	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 12:50	7.7	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 12:50	33.46	ft

Field Parameters Summary
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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 12:50	231.95	mv
GN-AP-MW-42	PH	pH	4/12/2023 12:50	6.1	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 12:50	18.57	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 12:50	14.4	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 12:55	72.64	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 12:55	7.74	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 12:55	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 12:55	228.49	mv
GN-AP-MW-42	PH	pH	4/12/2023 12:55	6.17	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 12:55	18.52	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 12:55	12.1	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 13:00	78.32	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 13:00	7.73	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 13:00	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 13:00	225.52	mv
GN-AP-MW-42	PH	pH	4/12/2023 13:00	6.22	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 13:00	18.49	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 13:00	10.2	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 13:05	83.2	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 13:05	7.7	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 13:05	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 13:05	222.27	mv
GN-AP-MW-42	PH	pH	4/12/2023 13:05	6.26	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 13:05	18.57	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 13:05	9.46	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 13:10	88.39	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 13:10	7.68	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 13:10	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 13:10	220.58	mv
GN-AP-MW-42	PH	pH	4/12/2023 13:10	6.29	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 13:10	18.51	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 13:10	7.95	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 13:15	91.2	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 13:15	7.65	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 13:15	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 13:15	219.49	mv
GN-AP-MW-42	PH	pH	4/12/2023 13:15	6.3	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 13:15	18.55	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 13:15	8.17	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 13:20	94.29	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 13:20	7.64	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 13:20	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 13:20	218.08	mv
GN-AP-MW-42	PH	pH	4/12/2023 13:20	6.31	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 13:20	18.56	C

Field Parameters Summary
Plant Gaston Ash Pond - MNA Event 2023 SA01

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	TURB	Turbidity	4/12/2023 13:20	7.76	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 13:25	97.55	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 13:25	7.65	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 13:25	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 13:25	215.94	mv
GN-AP-MW-42	PH	pH	4/12/2023 13:25	6.34	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 13:25	18.66	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 13:25	5.83	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 13:30	100.24	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 13:30	7.68	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 13:30	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 13:30	214.24	mv
GN-AP-MW-42	PH	pH	4/12/2023 13:30	6.36	SU
GN-AP-MW-42	TEMP	Temperature	4/12/2023 13:30	18.61	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 13:30	4.64	NTU
GN-AP-MW-42	COND	Conductivity	4/12/2023 13:35	101.36	uS/cm
GN-AP-MW-42	DO	DO	4/12/2023 13:35	7.68	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	4/12/2023 13:35	33.46	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	4/12/2023 13:35	212.59	mv
GN-AP-MW-42	PH	pH	4/12/2023 13:35	6.38	SU
GN-AP-MW-42	SULFIDE	Sulfide	4/12/2023 13:35	0	mg/L
GN-AP-MW-42	TEMP	Temperature	4/12/2023 13:35	18.58	C
GN-AP-MW-42	TURB	Turbidity	4/12/2023 13:35	3.16	NTU

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

Analytical Report



Sample Group : WMWGASAP_1396

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

March 23, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between January 26, 2023 and February 08, 2023. 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, 2023

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: 2023.03.23
10:10:21 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, o=US
United States, i=US United States
e=tdmaske@southernco.com
Reason: I am the author of this document
Location:
Date: 2023-03-24 14:00:05.00



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.



Total Metals ICP

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	745762	WMWGASAP_1396
BD01846	745762	WMWGASAP_1396
BD01847	745762	WMWGASAP_1396
BD01848	745762	WMWGASAP_1396
BD01849	745762	WMWGASAP_1396
BD01850	745762	WMWGASAP_1396
BD01851	745762	WMWGASAP_1396
BD01852	745762	WMWGASAP_1396
BD01853	745762	WMWGASAP_1396
BD01854	745762	WMWGASAP_1396
BD01855	745763	WMWGASAP_1396
BD01856	745763	WMWGASAP_1396
BD01857	745763	WMWGASAP_1396
BD01858	745763	WMWGASAP_1396
BD01859	745763	WMWGASAP_1396
BD01860	745763	WMWGASAP_1396
BD01861	745763	WMWGASAP_1396
BD01862	745763	WMWGASAP_1396
BD01863	745763	WMWGASAP_1396
BD01864	745763	WMWGASAP_1396
BD01865	745764	WMWGASAP_1396
BD02443	746532	WMWGASAP_1396
BD02444	746532	WMWGASAP_1396
BD02445	746532	WMWGASAP_1396
BD02446	746532	WMWGASAP_1396
BD02447	746532	WMWGASAP_1396
BD02448	746532	WMWGASAP_1396
BD02449	746532, 748637	WMWGASAP_1396
BD02450	746532	WMWGASAP_1396
BD02451	746532	WMWGASAP_1396
BD02452	746532	WMWGASAP_1396

BD02453	746533	WMWGASAP_1396
BD02454	746533	WMWGASAP_1396
BD02455	746533	WMWGASAP_1396
BD02456	746533	WMWGASAP_1396
BD02457	746533	WMWGASAP_1396
BD02851	746950	WMWGASAP_1396
BD02852	746950	WMWGASAP_1396
BD02853	746950	WMWGASAP_1396
BD02854	746950	WMWGASAP_1396
BD02855	746950	WMWGASAP_1396
BD02856	746950	WMWGASAP_1396
BD02857	746950	WMWGASAP_1396
BD02859	746950	WMWGASAP_1396
BD02860	746950	WMWGASAP_1396
BD02861	746950	WMWGASAP_1396
BD02862	746951	WMWGASAP_1396
BD02863	746951	WMWGASAP_1396
BD02864	746951	WMWGASAP_1396
BD02865	746951	WMWGASAP_1396
BD02866	746951	WMWGASAP_1396
BD02867	746951	WMWGASAP_1396
BD02868	746951	WMWGASAP_1396
BD02869	746951	WMWGASAP_1396
BD02870	746951	WMWGASAP_1396

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:
 - BD01854 Sodium MS and/or MSD recovery is outside of specification limit.
 - BD01854, BD01864, BD02457 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD02457 Magnesium MS/MSD spike levels were less than 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 sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01845	Calcium, Magnesium	10.15
BD01846	Calcium, Iron, Magnesium	10.15
BD01847	Calcium, Iron, Magnesium	10.15
BD01848	Calcium, Magnesium	10.15
BD01849	Calcium, Magnesium	10.15
BD01850	Calcium, Sodium	10.15
BD01852	Calcium, Sodium	10.15
BD01853	Sodium	10.15
BD01854	Calcium	10.15
BD01855	Calcium	10.15
BD01856	Calcium	10.15
BD01857	Calcium, Sodium	10.15
BD01858	Calcium	10.15
BD01860	Calcium, Sodium	10.15

Case Narrative

BD01861	Calcium	10.15
BD01863	Calcium	10.15
BD01864	Calcium	10.15
BD02443	Calcium	10.15
BD02444	Calcium	10.15
BD02445	Magnesium	10.15
BD02446	Calcium	10.15
BD02447	Calcium, Magnesium	10.15
BD02448	Calcium	10.15
BD02449	Calcium	10.15
BD02456	Calcium	101.15
BD02456	Sodium	10.15
BD02457	Calcium, Magnesium	10.15
BD02851	Calcium	10.15
BD02852	Calcium	10.15
BD02853	Calcium	10.15
BD02854	Calcium	10.15
BD02855	Calcium	10.15
BD02857	Calcium	10.15
BD02862	Calcium	10.15
BD02863	Calcium	10.15
BD02866	Calcium	10.15
BD02868	Calcium	10.15
BD02869	Calcium	10.15

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

Dissolved Metals ICP

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	745677	WMWGASAP_1396
BD01846	745677	WMWGASAP_1396
BD01847	745677	WMWGASAP_1396
BD01848	745677	WMWGASAP_1396
BD01849	745677	WMWGASAP_1396
BD01850	745677	WMWGASAP_1396
BD01852	745677	WMWGASAP_1396
BD01853	745677	WMWGASAP_1396
BD01854	745677	WMWGASAP_1396
BD01855	745677	WMWGASAP_1396
BD01856	745678	WMWGASAP_1396
BD01857	745678	WMWGASAP_1396
BD01858	745678	WMWGASAP_1396
BD01859	745678	WMWGASAP_1396
BD01860	745678	WMWGASAP_1396
BD01861	745678	WMWGASAP_1396
BD01862	745678	WMWGASAP_1396
BD01863	745678	WMWGASAP_1396
BD01864	745678	WMWGASAP_1396
BD02443	746498	WMWGASAP_1396
BD02444	746498	WMWGASAP_1396
BD02445	746498	WMWGASAP_1396
BD02446	746498	WMWGASAP_1396
BD02447	746498	WMWGASAP_1396
BD02448	746498	WMWGASAP_1396
BD02449	746498, 748640	WMWGASAP_1396
BD02450	746498	WMWGASAP_1396
BD02451	746498	WMWGASAP_1396
BD02453	746498	WMWGASAP_1396
BD02454	746499	WMWGASAP_1396
BD02455	746499	WMWGASAP_1396

BD02456	746499	WMWGASAP_1396
BD02457	746499	WMWGASAP_1396
BD02851	746905	WMWGASAP_1396
BD02852	746905	WMWGASAP_1396
BD02853	746905	WMWGASAP_1396
BD02854	746905	WMWGASAP_1396
BD02855	746905	WMWGASAP_1396
BD02857	746905	WMWGASAP_1396
BD02859	746905	WMWGASAP_1396
BD02860	746905	WMWGASAP_1396
BD02862	746905	WMWGASAP_1396
BD02863	746905	WMWGASAP_1396
BD02864	746906	WMWGASAP_1396
BD02865	746906	WMWGASAP_1396
BD02866	746906	WMWGASAP_1396
BD02867	746906	WMWGASAP_1396
BD02868	746906	WMWGASAP_1396
BD02869	746906	WMWGASAP_1396

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:
 - BD02449, BD02457, & BD02869 Calcium MS/MSD spike levels were less than 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:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01845	Calcium, Magnesium	10.15
BD01846	Calcium, Iron, Magnesium	10.15
BD01847	Calcium, Iron, Magnesium	10.15
BD01848	Calcium, Magnesium	10.15
BD01849	Calcium, Magnesium	10.15
BD01850	Calcium, Sodium	10.15
BD01852	Calcium, Sodium	10.15
BD01853	Sodium	10.15
BD01854	Calcium	10.15
BD01855	Calcium	10.15
BD01856	Calcium	10.15
BD01857	Calcium, Sodium	10.15
BD01858	Calcium	10.15
BD01860	Calcium, Sodium	10.15
BD01861	Calcium	10.15
BD01863	Calcium	10.15
BD01864	Calcium	10.15
BD02443	Calcium	10.15
BD02444	Calcium	10.15
BD02445	Magnesium	10.15
BD02446	Calcium	10.15
BD02447	Calcium	10.15
BD02448	Calcium	10.15

Case Narrative

BD02449	Calcium	10.15
BD02456	Calcium, Sodium	101.15
BD02457	Calcium, Magnesium	10.15
BD02851	Calcium	10.15
BD02852	Calcium	10.15
BD02853	Calcium	10.15
BD02854	Calcium	10.15
BD02855	Calcium	10.15
BD02857	Calcium	10.15
BD02862	Calcium	10.15
BD02866	Calcium	10.15
BD02868	Calcium	10.15
BD02869	Calcium	10.15

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

Total Metals ICPMS

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	745997	WMWGASAP_1396
BD01846	745997	WMWGASAP_1396
BD01847	745997	WMWGASAP_1396
BD01848	745997	WMWGASAP_1396
BD01849	745997	WMWGASAP_1396
BD01850	745997	WMWGASAP_1396
BD01851	745997	WMWGASAP_1396
BD01852	745997	WMWGASAP_1396
BD01853	745997	WMWGASAP_1396
BD01854	745997	WMWGASAP_1396
BD01855	745998	WMWGASAP_1396
BD01856	745998	WMWGASAP_1396
BD01857	745998	WMWGASAP_1396
BD01858	745998	WMWGASAP_1396
BD01859	745998	WMWGASAP_1396
BD01860	745998	WMWGASAP_1396
BD01861	745998	WMWGASAP_1396
BD01862	745998, 749102	WMWGASAP_1396
BD01863	745998, 749102	WMWGASAP_1396
BD01864	745998, 749102	WMWGASAP_1396
BD01865	745999	WMWGASAP_1396
BD02443	747019	WMWGASAP_1396
BD02444	747019	WMWGASAP_1396
BD02445	747019, 749107	WMWGASAP_1396
BD02446	747019	WMWGASAP_1396
BD02447	747019	WMWGASAP_1396
BD02448	747019	WMWGASAP_1396
BD02449	747019	WMWGASAP_1396
BD02450	747019	WMWGASAP_1396
BD02451	747019	WMWGASAP_1396
BD02452	747019	WMWGASAP_1396

BD02453	747020, 749102	WMWGASAP_1396
BD02454	747020, 749102	WMWGASAP_1396
BD02455	747020, 749102	WMWGASAP_1396
BD02456	747020	WMWGASAP_1396
BD02457	747020, 749107	WMWGASAP_1396
BD02851	747626	WMWGASAP_1396
BD02852	747626	WMWGASAP_1396
BD02853	747626	WMWGASAP_1396
BD02854	747626	WMWGASAP_1396
BD02855	747626	WMWGASAP_1396
BD02856	747626	WMWGASAP_1396
BD02857	747626	WMWGASAP_1396
BD02859	747626, 749107	WMWGASAP_1396
BD02860	747626	WMWGASAP_1396
BD02861	747626	WMWGASAP_1396
BD02862	747627	WMWGASAP_1396
BD02863	747627, 749102	WMWGASAP_1396
BD02864	747627	WMWGASAP_1396
BD02865	747627	WMWGASAP_1396
BD02866	747627, 749102	WMWGASAP_1396
BD02867	747627	WMWGASAP_1396
BD02868	747627	WMWGASAP_1396
BD02869	747627	WMWGASAP_1396
BD02870	747627	WMWGASAP_1396

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.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01857	Molybdenum	5.075
BD02456	Molybdenum	5.075

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

Dissolved Metals ICPMS

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	746004	WMWGASAP_1396
BD01846	746004	WMWGASAP_1396
BD01847	746004	WMWGASAP_1396
BD01848	746004	WMWGASAP_1396
BD01849	746004	WMWGASAP_1396
BD01850	746004	WMWGASAP_1396
BD01852	746004	WMWGASAP_1396
BD01853	746004	WMWGASAP_1396
BD01854	746004	WMWGASAP_1396
BD01855	746004	WMWGASAP_1396
BD01856	746005	WMWGASAP_1396
BD01857	746005	WMWGASAP_1396
BD01858	746005	WMWGASAP_1396
BD01859	746005	WMWGASAP_1396
BD01860	746005	WMWGASAP_1396
BD01861	746005	WMWGASAP_1396
BD01862	746005	WMWGASAP_1396
BD01863	746005	WMWGASAP_1396
BD01864	746005	WMWGASAP_1396
BD02443	747429	WMWGASAP_1396
BD02444	747429	WMWGASAP_1396
BD02445	747429, 749106	WMWGASAP_1396
BD02446	747429	WMWGASAP_1396
BD02447	747429	WMWGASAP_1396
BD02448	747429	WMWGASAP_1396
BD02449	747429	WMWGASAP_1396
BD02450	747429	WMWGASAP_1396
BD02451	747429	WMWGASAP_1396
BD02453	747429	WMWGASAP_1396
BD02454	747430	WMWGASAP_1396
BD02455	747430	WMWGASAP_1396

BD02456	747430	WMWGASAP_1396
BD02457	747430, 749106	WMWGASAP_1396
BD02851	747567	WMWGASAP_1396
BD02852	747567	WMWGASAP_1396
BD02853	747567	WMWGASAP_1396
BD02854	747567	WMWGASAP_1396
BD02855	747567	WMWGASAP_1396
BD02857	747567	WMWGASAP_1396
BD02859	747567, 749106	WMWGASAP_1396
BD02860	747567	WMWGASAP_1396
BD02862	747567	WMWGASAP_1396
BD02863	747567	WMWGASAP_1396
BD02864	747568	WMWGASAP_1396
BD02865	747568	WMWGASAP_1396
BD02866	747568, 749101	WMWGASAP_1396
BD02867	747568	WMWGASAP_1396
BD02868	747568	WMWGASAP_1396
BD02869	747568	WMWGASAP_1396

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, except for the following:
 - BD02457 Selenium MS and/or MSD recovery is outside of specification limit.
 - 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:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01857	Molybdenum	5.075
BD02456	Molybdenum	5.075

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

Mercury

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	745791	WMWGASAP_1396
BD01846	745791	WMWGASAP_1396
BD01847	745791	WMWGASAP_1396
BD01848	745791	WMWGASAP_1396
BD01849	745791	WMWGASAP_1396
BD01850	745791	WMWGASAP_1396
BD01851	745791	WMWGASAP_1396
BD01852	745791	WMWGASAP_1396
BD01853	745791	WMWGASAP_1396
BD01854	745791	WMWGASAP_1396
BD01855	745792	WMWGASAP_1396
BD01856	745792	WMWGASAP_1396
BD01857	745792	WMWGASAP_1396
BD01858	745792	WMWGASAP_1396
BD01859	745792	WMWGASAP_1396
BD01860	745792	WMWGASAP_1396
BD01861	745792	WMWGASAP_1396
BD01862	745792	WMWGASAP_1396
BD01863	745792	WMWGASAP_1396
BD01864	745792	WMWGASAP_1396
BD01865	745793	WMWGASAP_1396
BD02443	746827	WMWGASAP_1396
BD02444	746827	WMWGASAP_1396
BD02445	746827	WMWGASAP_1396
BD02446	746827	WMWGASAP_1396
BD02447	746827	WMWGASAP_1396
BD02448	746827	WMWGASAP_1396
BD02449	746827	WMWGASAP_1396
BD02450	746827	WMWGASAP_1396
BD02451	746827	WMWGASAP_1396
BD02452	746827	WMWGASAP_1396

BD02453	746828	WMWGASAP_1396
BD02454	746828	WMWGASAP_1396
BD02455	746828	WMWGASAP_1396
BD02456	746828	WMWGASAP_1396
BD02457	746828	WMWGASAP_1396
BD02851	746828	WMWGASAP_1396
BD02852	746828	WMWGASAP_1396
BD02853	746828	WMWGASAP_1396
BD02854	746828	WMWGASAP_1396
BD02855	746828	WMWGASAP_1396
BD02856	746829	WMWGASAP_1396
BD02857	746829	WMWGASAP_1396
BD02859	746829	WMWGASAP_1396
BD02860	746829	WMWGASAP_1396
BD02861	746829	WMWGASAP_1396
BD02862	746829	WMWGASAP_1396
BD02863	746829	WMWGASAP_1396
BD02864	746829	WMWGASAP_1396
BD02865	746829	WMWGASAP_1396
BD02866	746830	WMWGASAP_1396
BD02867	746830	WMWGASAP_1396
BD02868	746830	WMWGASAP_1396
BD02869	746830	WMWGASAP_1396
BD02870	746830	WMWGASAP_1396

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 factor.

Total Dissolved Solids

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	745796	WMWGASAP_1396
BD01846	745796	WMWGASAP_1396
BD01847	745796	WMWGASAP_1396
BD01848	745796	WMWGASAP_1396
BD01849	745796	WMWGASAP_1396
BD01850	745796	WMWGASAP_1396
BD01851	745796	WMWGASAP_1396
BD01852	745796	WMWGASAP_1396
BD01853	745796	WMWGASAP_1396
BD01854	745796	WMWGASAP_1396
BD01855	745797	WMWGASAP_1396
BD01856	745797	WMWGASAP_1396
BD01857	745797	WMWGASAP_1396
BD01858	745797	WMWGASAP_1396
BD01859	745797	WMWGASAP_1396
BD01860	745797	WMWGASAP_1396
BD01861	745797	WMWGASAP_1396
BD01862	745797	WMWGASAP_1396
BD01863	745797	WMWGASAP_1396
BD01864	746220	WMWGASAP_1396
BD01865	745797	WMWGASAP_1396
BD02443	746545	WMWGASAP_1396
BD02444	746545	WMWGASAP_1396
BD02445	746545	WMWGASAP_1396
BD02446	746545	WMWGASAP_1396
BD02447	746545	WMWGASAP_1396
BD02448	746545	WMWGASAP_1396
BD02449	746545	WMWGASAP_1396
BD02450	746545	WMWGASAP_1396
BD02451	746545	WMWGASAP_1396
BD02452	746545	WMWGASAP_1396

BD02453	746546	WMWGASAP_1396
BD02454	746546	WMWGASAP_1396
BD02455	746546	WMWGASAP_1396
BD02456	746546	WMWGASAP_1396
BD02457	746546	WMWGASAP_1396
BD02851	746956	WMWGASAP_1396
BD02852	746956	WMWGASAP_1396
BD02853	746956	WMWGASAP_1396
BD02854	746956	WMWGASAP_1396
BD02855	746956	WMWGASAP_1396
BD02856	746956	WMWGASAP_1396
BD02857	746956	WMWGASAP_1396
BD02859	746957	WMWGASAP_1396
BD02860	746957	WMWGASAP_1396
BD02861	746957	WMWGASAP_1396
BD02862	746957	WMWGASAP_1396
BD02863	746957	WMWGASAP_1396
BD02864	746957	WMWGASAP_1396
BD02865	746957	WMWGASAP_1396
BD02866	746957	WMWGASAP_1396
BD02867	746957	WMWGASAP_1396
BD02868	746957	WMWGASAP_1396
BD02869	747109	WMWGASAP_1396
BD02870	747109	WMWGASAP_1396

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 $\leq 10\%$.
- 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 $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BD01851
 - BD01865
 - BD02452
 - BD02856

Case Narrative

- BD02861
- BD02870

Alkalinity

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	746633, 746634, 746635	WMWGASAP_1396
BD01846	746633, 746634, 746635	WMWGASAP_1396
BD01847	746633, 746634, 746635	WMWGASAP_1396
BD01848	746633, 746634, 746635	WMWGASAP_1396
BD01849	746633, 746634, 746635	WMWGASAP_1396
BD01850	746633, 746634, 746635	WMWGASAP_1396
BD01852	746633, 746634, 746635	WMWGASAP_1396
BD01853	746633, 746634, 746635	WMWGASAP_1396
BD01854	746633, 746634, 746635	WMWGASAP_1396
BD01855	746633, 746634, 746635	WMWGASAP_1396
BD01856	746633, 746634, 746635	WMWGASAP_1396
BD01857	746633, 746634, 746635	WMWGASAP_1396
BD01858	746633, 746634, 746635	WMWGASAP_1396
BD01859	746633, 746634, 746635	WMWGASAP_1396
BD01860	746633, 746634, 746635	WMWGASAP_1396
BD01861	746633, 746634, 746635	WMWGASAP_1396
BD01862	746633, 746634, 746635	WMWGASAP_1396
BD01863	746633, 746634, 746635	WMWGASAP_1396
BD01864	746633, 746634, 746635	WMWGASAP_1396
BD02443	747114, 747115, 747116	WMWGASAP_1396
BD02444	747114, 747115, 747116	WMWGASAP_1396
BD02445	747114, 747115, 747116	WMWGASAP_1396
BD02446	747114, 747115, 747116	WMWGASAP_1396
BD02447	747114, 747115, 747116	WMWGASAP_1396
BD02448	747114, 747115, 747116	WMWGASAP_1396
BD02449	747114, 747115, 747116	WMWGASAP_1396
BD02450	747114, 747115, 747116	WMWGASAP_1396
BD02451	747114, 747115, 747116	WMWGASAP_1396
BD02453	747114, 747115, 747116	WMWGASAP_1396
BD02454	747114, 747115, 747116	WMWGASAP_1396
BD02455	747114, 747115, 747116	WMWGASAP_1396

BD02456	747114, 747115, 747116	WMWGASAP_1396
BD02457	747114, 747115, 747116	WMWGASAP_1396
BD02851	747744, 747745, 747746	WMWGASAP_1396
BD02852	747744, 747745, 747746	WMWGASAP_1396
BD02853	747744, 747745, 747746	WMWGASAP_1396
BD02854	747744, 747745, 747746	WMWGASAP_1396
BD02855	747744, 747745, 747746	WMWGASAP_1396
BD02857	747744, 747745, 747746	WMWGASAP_1396
BD02859	747744, 747745, 747746	WMWGASAP_1396
BD02860	747744, 747745, 747746	WMWGASAP_1396
BD02862	747744, 747745, 747746	WMWGASAP_1396
BD02863	747744, 747745, 747746	WMWGASAP_1396
BD02864	747744, 747745, 747746	WMWGASAP_1396
BD02865	747744, 747745, 747746	WMWGASAP_1396
BD02866	747744, 747745, 747746	WMWGASAP_1396
BD02867	747744, 747745, 747746	WMWGASAP_1396
BD02868	747744, 747745, 747746	WMWGASAP_1396
BD02869	747744, 747745, 747746	WMWGASAP_1396

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:
 - BD01845
 - BD01846
 - BD01847
 - BD01848
 - BD01849
 - BD01850
 - BD01853

Case Narrative

- BD01857
- BD01860
- BD02443
- BD02456
- BD02457

Anions

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	745823, 745826, 746721	WMWGASAP_1396
BD01846	745823, 745826, 746721	WMWGASAP_1396
BD01847	745823, 745826, 746721	WMWGASAP_1396
BD01848	745823, 745826, 746721	WMWGASAP_1396
BD01849	745823, 745826, 746721	WMWGASAP_1396
BD01850	745823, 745826, 746721	WMWGASAP_1396
BD01851	745823, 745826, 746721	WMWGASAP_1396
BD01852	745823, 745826, 746721	WMWGASAP_1396
BD01853	745823, 745826, 746721	WMWGASAP_1396
BD01854	745823, 745826, 746722	WMWGASAP_1396
BD01855	745824, 745827, 746722	WMWGASAP_1396
BD01856	745824, 745827, 746722	WMWGASAP_1396
BD01857	745824, 745827, 746722	WMWGASAP_1396
BD01858	745824, 745827, 746722	WMWGASAP_1396
BD01859	745824, 745827, 746722	WMWGASAP_1396
BD01860	745824, 745827, 746722	WMWGASAP_1396
BD01861	745824, 745827, 746722	WMWGASAP_1396
BD01862	745824, 745827, 746722	WMWGASAP_1396
BD01863	745824, 745827, 746722	WMWGASAP_1396
BD01864	745824, 745827, 746723	WMWGASAP_1396
BD01865	745825, 745828, 746723	WMWGASAP_1396
BD02443	746541, 746591, 746723	WMWGASAP_1396
BD02444	746541, 746591, 746723	WMWGASAP_1396
BD02445	746541, 746591, 746723	WMWGASAP_1396
BD02446	746541, 746591, 746723	WMWGASAP_1396
BD02447	746541, 746591, 746723	WMWGASAP_1396
BD02448	746541, 746591, 746723	WMWGASAP_1396
BD02449	746541, 746591, 746723	WMWGASAP_1396
BD02450	746541, 746591, 746723	WMWGASAP_1396
BD02451	746541, 746591, 746724	WMWGASAP_1396
BD02452	746542, 746592, 746724	WMWGASAP_1396

BD02453	746542, 746592, 746724	WMWGASAP_1396
BD02454	746542, 746592, 746724	WMWGASAP_1396
BD02455	746542, 746592, 746724	WMWGASAP_1396
BD02456	746542, 746592, 746724	WMWGASAP_1396
BD02457	746542, 746592, 746724	WMWGASAP_1396
BD02851	747035, 747037, 746845	WMWGASAP_1396
BD02852	747035, 747037, 746845	WMWGASAP_1396
BD02853	747035, 747037, 746845	WMWGASAP_1396
BD02854	747035, 747037, 746845	WMWGASAP_1396
BD02855	747035, 747037, 746845	WMWGASAP_1396
BD02856	747035, 747037, 746845	WMWGASAP_1396
BD02857	747035, 747037, 746845	WMWGASAP_1396
BD02859	747035, 747037, 746845	WMWGASAP_1396
BD02860	747035, 747037, 746845	WMWGASAP_1396
BD02861	747035, 747037, 746846	WMWGASAP_1396
BD02862	747036, 747038, 746846	WMWGASAP_1396
BD02863	747036, 747038, 746846	WMWGASAP_1396
BD02864	747036, 747038, 746846	WMWGASAP_1396
BD02865	747036, 747038, 746846	WMWGASAP_1396
BD02866	747036, 747038, 746846	WMWGASAP_1396
BD02867	747036, 747038, 746846	WMWGASAP_1396
BD02868	747036, 747038, 746846	WMWGASAP_1396
BD02869	747036, 747038, 746846	WMWGASAP_1396
BD02870	747036, 747038, 746846	WMWGASAP_1396

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) was analyzed, 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:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD01845	Sulfate	32
BD01846	Sulfate	25
BD01847	Sulfate	25
BD01848	Sulfate	32
BD01849	Sulfate	16
BD01850	Chloride, Sulfate	16, 25
BD01852	Chloride	2
BD01853	Sulfate	10
BD01855	Chloride, Sulfate	5, 10
BD01856	Chloride, Sulfate	5, 10
BD01857	Chloride, Sulfate	10, 16
BD01858	Sulfate	11
BD01859	Sulfate	4
BD01860	Chloride, Sulfate	10, 16
BD01864	Sulfate	3
BD02443	Chloride, Sulfate	8, 16
BD02444	Chloride, Sulfate	3, 10
BD02445	Chloride, Sulfate	5, 2
BD02447	Chloride	3
BD02449	Sulfate	6
BD02456	Chloride, Sulfate	25, 25
BD02457	Sulfate	50
BD02853	Sulfate	3
BD02854	Chloride, Sulfate	2, 6
BD02855	Chloride, Sulfate	2, 6
BD02857	Chloride, Sulfate	2, 8
BD02862	Chloride, Sulfate	2, 6
BD02866	Sulfate	4

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

Nitrate-Nitrite

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	745695	WMWGASAP_1396
BD01846	745695	WMWGASAP_1396
BD01847	745695	WMWGASAP_1396
BD01848	745695	WMWGASAP_1396
BD01849	745695	WMWGASAP_1396
BD01851	745695	WMWGASAP_1396
BD01852	745695	WMWGASAP_1396
BD01853	745695	WMWGASAP_1396
BD01854	745695	WMWGASAP_1396
BD01855	745696	WMWGASAP_1396
BD01856	745696	WMWGASAP_1396
BD01857	745696	WMWGASAP_1396
BD01858	745696	WMWGASAP_1396
BD01859	745696	WMWGASAP_1396
BD01860	745696	WMWGASAP_1396
BD01861	745696	WMWGASAP_1396
BD01862	745696	WMWGASAP_1396
BD01863	745696	WMWGASAP_1396
BD01864	745696	WMWGASAP_1396
BD01865	745697	WMWGASAP_1396
BD02443	746582	WMWGASAP_1396
BD02444	746582	WMWGASAP_1396
BD02445	746582	WMWGASAP_1396
BD02446	746582	WMWGASAP_1396
BD02447	746582	WMWGASAP_1396
BD02448	746582	WMWGASAP_1396
BD02449	746582	WMWGASAP_1396
BD02450	746582	WMWGASAP_1396
BD02451	746582	WMWGASAP_1396
BD02452	746582	WMWGASAP_1396
BD02453	746583	WMWGASAP_1396

BD02454	746583	WMWGASAP_1396
BD02455	746583	WMWGASAP_1396
BD02456	746583	WMWGASAP_1396
BD02457	746583	WMWGASAP_1396
BD02851	746833	WMWGASAP_1396
BD02852	746833	WMWGASAP_1396
BD02853	746833	WMWGASAP_1396
BD02854	746833	WMWGASAP_1396
BD02855	746833	WMWGASAP_1396
BD02856	746833	WMWGASAP_1396
BD02857	746833	WMWGASAP_1396
BD02858	746833	WMWGASAP_1396
BD02859	746833	WMWGASAP_1396
BD02860	746833	WMWGASAP_1396
BD02861	746834	WMWGASAP_1396
BD02862	746834	WMWGASAP_1396
BD02863	746834	WMWGASAP_1396
BD02864	746834	WMWGASAP_1396
BD02865	746834	WMWGASAP_1396
BD02866	746834	WMWGASAP_1396
BD02867	746834	WMWGASAP_1396
BD02868	746834	WMWGASAP_1396
BD02869	746834	WMWGASAP_1396
BD02870	746834	WMWGASAP_1396

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.

Revision 5

Case Narrative

- 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.

Total Organic Carbon

Gaston Ash Pond

WMWGASAP_1396

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD01845	745668	WMWGASAP_1396
BD01846	745668	WMWGASAP_1396
BD01847	745668	WMWGASAP_1396
BD01848	745668	WMWGASAP_1396
BD01849	745668	WMWGASAP_1396
BD01851	745668	WMWGASAP_1396
BD01852	745668	WMWGASAP_1396
BD01853	745668	WMWGASAP_1396
BD01854	745668	WMWGASAP_1396
BD01855	745669	WMWGASAP_1396
BD01856	745669	WMWGASAP_1396
BD01857	745669	WMWGASAP_1396
BD01858	745669	WMWGASAP_1396
BD01859	745669	WMWGASAP_1396
BD01860	745669	WMWGASAP_1396
BD01861	745669	WMWGASAP_1396
BD01862	745669	WMWGASAP_1396
BD01863	745669	WMWGASAP_1396
BD01864	745669	WMWGASAP_1396
BD01865	745670	WMWGASAP_1396
BD02443	746458	WMWGASAP_1396
BD02444	746458	WMWGASAP_1396
BD02445	746458	WMWGASAP_1396
BD02446	746458	WMWGASAP_1396
BD02447	746458	WMWGASAP_1396
BD02448	746458	WMWGASAP_1396
BD02449	746458	WMWGASAP_1396
BD02450	746458	WMWGASAP_1396
BD02451	746458	WMWGASAP_1396
BD02452	746458	WMWGASAP_1396
BD02453	746459	WMWGASAP_1396

BD02454	746459	WMWGASAP_1396
BD02455	746459	WMWGASAP_1396
BD02456	746459	WMWGASAP_1396
BD02457	746459	WMWGASAP_1396
BD02851	746831	WMWGASAP_1396
BD02852	746831	WMWGASAP_1396
BD02853	746831	WMWGASAP_1396
BD02854	746831	WMWGASAP_1396
BD02855	746831	WMWGASAP_1396
BD02856	746831	WMWGASAP_1396
BD02857	746831	WMWGASAP_1396
BD02858	746831	WMWGASAP_1396
BD02859	746831	WMWGASAP_1396
BD02860	746831	WMWGASAP_1396
BD02861	746832	WMWGASAP_1396
BD02862	746832	WMWGASAP_1396
BD02863	746832	WMWGASAP_1396
BD02864	746832	WMWGASAP_1396
BD02865	746832	WMWGASAP_1396
BD02866	746832	WMWGASAP_1396
BD02867	746832	WMWGASAP_1396
BD02868	746832	WMWGASAP_1396
BD02869	746832	WMWGASAP_1396
BD02870	746832	WMWGASAP_1396

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 1/24/23 10:12
Customer ID:
Submittal Date: 1/26/23 09:43

Laboratory ID Number: BD01845

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 11:58		1.015	2.83	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:05		10.15	127	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 11:58		1.015	0.458	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 11:58		1.015	0.0422	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 14:05		10.15	69.8	mg/L	0.21315	4.06	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 11:58		1	7.68	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 11:58		1.015	3.59	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 11:58		1.015	18.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:30		1.015	2.95	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:16		10.15	126	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 12:30		1.015	0.358	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:30		1.015	0.0448	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 14:16		10.15	66.6	mg/L	0.21315	4.06	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:30		1	7.75	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:30		1.015	3.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 12:30		1.015	20.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.119	mg/L	0.006090	0.05075	
* Arsenic, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.00235	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.0348	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.000255	mg/L	0.000068	0.000203	
* Lead, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.000161	mg/L	0.000068	0.000203	J
* Manganese, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.0269	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.329	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:05		1.015	0.533	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 1/24/23 10:12
Customer ID:
Submittal Date: 1/26/23 09:43

Laboratory ID Number: BD01845

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	0.00216	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	0.0347	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	0.000157	mg/L	0.000068	0.000203	J
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	0.0275	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	0.333	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	0.516	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 14:40	1/27/23 14:40		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	68.9	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	792	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	68.2	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	0.671	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 16:15	1/26/23 16:15		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 1/24/23 10:12
Customer ID:
Submittal Date: 1/26/23 09:43

Laboratory ID Number: BD01845

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 09:35	1/27/23 09:35		1	19.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:15	1/27/23 13:15		1	0.117	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 14:59	2/6/23 14:59		32	437	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/24/23 10:08	1/24/23 10:08			1033.5	uS/cm			FA
pH	1/24/23 10:08	1/24/23 10:08			8.13	SU			FA
Temperature	1/24/23 10:08	1/24/23 10:08			18.58	C			FA
Turbidity	1/24/23 10:08	1/24/23 10:08			8.24	NTU			FA
Sulfide	1/24/23 10:08	1/24/23 10:08			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 10:12
Customer ID:
Delivery Date: 1/26/23 09:43

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BD01845

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 10:12

Customer ID:

Delivery Date: 1/26/23 09:43

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BD01845

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8		112	80.0 to 120	0.889	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 10:12

Customer ID:

Delivery Date: 1/26/23 09:43

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BD01845

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP

Collected: 1/24/23 11:32

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01846

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:01		1.015	2.62	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:08		10.15	146	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 14:08		10.15	9.36	mg/L	0.08120	0.406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:01		1.015	0.00829	mg/L	0.007105	0.01999956	J
* Magnesium, Total	1/27/23 10:39	1/31/23 14:08		10.15	56.7	mg/L	0.21315	4.06	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:01		1	16.0	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:01		1.015	7.50	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 12:01		1.015	16.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:33		1.015	2.75	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:19		10.15	132	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 14:19		10.15	7.86	mg/L	0.08120	0.406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:33		1.015	0.00904	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 14:19		10.15	47.2	mg/L	0.21315	4.06	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:33		1	16.5	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:33		1.015	7.70	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 12:33		1.015	18.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 14:08		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 14:08		1.015	0.00218	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:08		1.015	0.111	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 14:08		1.015	0.000682	mg/L	0.000068	0.000203	
* Lead, Total	1/27/23 10:39	1/27/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 14:08		1.015	0.181	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:08		1.015	0.185	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:08		1.015	0.742	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP

Collected: 1/24/23 11:32

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01846

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	0.00204	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	0.112	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	0.000674	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	0.180	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	0.186	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	0.701	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 14:42	1/27/23 14:42		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	105	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	698	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	105	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 16:31	1/26/23 16:31		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP
Collected: 1/24/23 11:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01846

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 09:37	1/27/23 09:37		1	17.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:17	1/27/23 13:17		1	0.092	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:00	2/6/23 15:00		25	351	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/24/23 11:28	1/24/23 11:28			949.70	uS/cm			FA
pH	1/24/23 11:28	1/24/23 11:28			7.07	SU			FA
Temperature	1/24/23 11:28	1/24/23 11:28			19.36	C			FA
Turbidity	1/24/23 11:28	1/24/23 11:28			6.86	NTU			FA
Sulfide	1/24/23 11:28	1/24/23 11:28			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 11:32

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BD01846

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0	
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0	
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0	
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0	
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0	
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0	
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0	
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0	
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0	
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0	
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0	
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0	
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0	
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0	
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0	
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0	
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0	
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0	
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0	
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0	
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0	
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 11:32

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BD01846

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8		112	80.0 to 120	0.889	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 11:32
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BD01846

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP
Collected: 1/24/23 11:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01847

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:05		1.015	2.63	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:11		10.15	136	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 14:11		10.15	8.88	mg/L	0.08120	0.406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:05		1.015	0.00842	mg/L	0.007105	0.01999956	J
* Magnesium, Total	1/27/23 10:39	1/31/23 14:11		10.15	54.6	mg/L	0.21315	4.06	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:05		1	16.1	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:05		1.015	7.51	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 12:05		1.015	16.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:37		1.015	2.76	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:22		10.15	134	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 14:22		10.15	7.88	mg/L	0.08120	0.406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:37		1.015	0.00907	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 14:22		10.15	47.7	mg/L	0.21315	4.06	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:37		1	16.4	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:37		1.015	7.68	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 12:37		1.015	18.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 14:12		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 14:12		1.015	0.00222	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:12		1.015	0.114	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 14:12		1.015	0.000669	mg/L	0.000068	0.000203	
* Lead, Total	1/27/23 10:39	1/27/23 14:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 14:12		1.015	0.180	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:12		1.015	0.184	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:12		1.015	0.716	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP
Collected: 1/24/23 11:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01847

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	0.00210	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	0.111	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	0.000697	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	0.186	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	0.197	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	0.720	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 14:44	1/27/23 14:44		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	103	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	688	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	103	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 16:47	1/26/23 16:47		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP
Collected: 1/24/23 11:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01847

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 09:38	1/27/23 09:38		1	17.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:18	1/27/23 13:18		1	0.0837	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:01	2/6/23 15:01		25	356	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/24/23 11:28	1/24/23 11:28			949.70	uS/cm			FA
pH	1/24/23 11:28	1/24/23 11:28			7.07	SU			FA
Temperature	1/24/23 11:28	1/24/23 11:28			19.36	C			FA
Turbidity	1/24/23 11:28	1/24/23 11:28			6.86	NTU			FA
Sulfide	1/24/23 11:28	1/24/23 11:28			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 11:32

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BD01847

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 11:32
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BD01847

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8		112	80.0 to 120	0.889	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 11:32

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BD01847

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 1/24/23 12:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01848

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	1/27/23 10:39	1/31/23 12:08		1.015	4.55	mg/L	0.030000	0.1015		
* Calcium, Total	1/27/23 10:39	1/31/23 14:14		10.15	189	mg/L	0.70035	4.06		
* Iron, Total	1/27/23 10:39	1/31/23 12:08		1.015	0.0117	mg/L	0.008120	0.0406	J	
* Lithium, Total	1/27/23 10:39	1/31/23 12:08		1.015	0.138	mg/L	0.007105	0.01999956		
* Magnesium, Total	1/27/23 10:39	1/31/23 14:14		10.15	62.3	mg/L	0.21315	4.06		
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:08		1	5.99	mg/L				
* Silicon, Total	1/27/23 10:39	1/31/23 12:08		1.015	2.80	mg/L	0.02030	0.25375		
* Sodium, Total	1/27/23 10:39	1/31/23 12:08		1.015	29.5	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:40		1.015	4.60	mg/L	0.030000	0.1015		
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:26		10.15	172	mg/L	0.70035	4.06		
* Iron, Dissolved	1/27/23 07:27	1/31/23 12:40		1.015	0.0126	mg/L	0.008120	0.0406	J	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:40		1.015	0.147	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 14:26		10.15	51.9	mg/L	0.21315	4.06		
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:40		1	6.16	mg/L				
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:40		1.015	2.88	mg/L	0.02030	0.25375		
* Sodium, Dissolved	1/27/23 07:27	1/31/23 12:40		1.015	29.7	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	1/27/23 10:39	1/27/23 14:15		1.015	0.00188	mg/L	0.000508	0.001015		
* Aluminum, Total	1/27/23 10:39	1/27/23 14:15		1.015	Not Detected	mg/L	0.006090	0.05075	U	
* Arsenic, Total	1/27/23 10:39	1/27/23 14:15		1.015	0.00399	mg/L	0.000081	0.000203		
* Barium, Total	1/27/23 10:39	1/27/23 14:15		1.015	0.0532	mg/L	0.000508	0.001015		
* Beryllium, Total	1/27/23 10:39	1/27/23 14:15		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	1/27/23 10:39	1/27/23 14:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	1/27/23 10:39	1/27/23 14:15		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	1/27/23 10:39	1/27/23 14:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	1/27/23 10:39	1/27/23 14:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	1/27/23 10:39	1/27/23 14:15		1.015	0.00304	mg/L	0.000152	0.001015		
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:15		1.015	0.915	mg/L	0.000102	0.000203		
* Potassium, Total	1/27/23 10:39	1/27/23 14:15		1.015	8.83	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP

Collected: 1/24/23 12:32

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01848

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	0.00160	mg/L	0.000508	0.001015	
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	0.00395	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	0.0539	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	0.0000916	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	0.00289	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	0.905	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	8.76	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 14:46	1/27/23 14:46		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	51.1	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	924	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	50.4	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	0.597	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 17:05	1/26/23 17:05		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP
Collected: 1/24/23 12:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01848

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 09:39	1/27/23 09:39		1	19.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:19	1/27/23 13:19		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:02	2/6/23 15:02		32	554	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/24/23 12:29	1/24/23 12:29			1182.38	uS/cm			FA
pH	1/24/23 12:29	1/24/23 12:29			7.98	SU			FA
Temperature	1/24/23 12:29	1/24/23 12:29			18.67	C			FA
Turbidity	1/24/23 12:29	1/24/23 12:29			3.14	NTU			FA
Sulfide	1/24/23 12:29	1/24/23 12:29			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 12:32
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BD01848

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0	
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0	
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0	
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0	
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0	
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0	
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0	
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0	
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0	
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0	
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0	
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0	
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0	
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0	
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0	
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0	
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0	
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0	
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0	
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0	
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0	
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 12:32

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BD01848

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8		112	80.0 to 120	0.889	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 12:32
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BD01848

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 1/24/23 13:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01849

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:11		1.015	1.68	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:17		10.15	138	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 12:11		1.015	0.364	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:11		1.015	0.0457	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 14:17		10.15	57.6	mg/L	0.21315	4.06	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:11		1	9.10	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:11		1.015	4.25	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 12:11		1.015	12.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:43		1.015	1.74	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:29		10.15	129	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 12:43		1.015	0.371	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:43		1.015	0.0491	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 14:29		10.15	48.0	mg/L	0.21315	4.06	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:43		1	9.18	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:43		1.015	4.29	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 12:43		1.015	13.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 14:19		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 14:19		1.015	0.00255	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:19		1.015	0.0550	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 14:19		1.015	0.00238	mg/L	0.000068	0.000203	
* Lead, Total	1/27/23 10:39	1/27/23 14:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 14:19		1.015	1.05	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:19		1.015	0.0710	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:19		1.015	3.32	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 1/24/23 13:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01849

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:19		1.015	0.000472	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	0.00257	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	0.0505	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	0.00240	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	1.07	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	0.0750	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	3.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:29		1.015	0.000468	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 14:48	1/27/23 14:48		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	272	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	632	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	271	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	0.656	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 17:20	1/26/23 17:20		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 1/24/23 13:32
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01849

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 09:40	1/27/23 09:40		1	14.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:20	1/27/23 13:20		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:03	2/6/23 15:03		16	212	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/24/23 13:29	1/24/23 13:29			913.80	uS/cm			FA
pH	1/24/23 13:29	1/24/23 13:29			6.84	SU			FA
Temperature	1/24/23 13:29	1/24/23 13:29			19.38	C			FA
Turbidity	1/24/23 13:29	1/24/23 13:29			2.12	NTU			FA
Sulfide	1/24/23 13:29	1/24/23 13:29			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 13:32

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BD01849

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0	
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0	
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0	
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0	
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0	
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0	
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0	
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0	
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0	
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0	
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0	
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0	
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0	
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0	
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0	
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0	
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0	
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0	
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0	
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0	
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0	
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 13:32
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BD01849

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8		112	80.0 to 120	0.889	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 13:32

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BD01849

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 1/24/23 14:23
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01850

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:14		1.015	2.62	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:21		10.15	198	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 12:14		1.015	0.390	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:14		1.015	0.264	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 12:14		1.015	23.0	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:14		1	5.99	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:14		1.015	2.80	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 14:21		10.15	47.7	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:47		1.015	2.72	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:33		10.15	185	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 12:47		1.015	0.359	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:47		1.015	0.305	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 12:47		1.015	23.1	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:47		1	6.16	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:47		1.015	2.88	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 14:33		10.15	40.2	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 14:22		1.015	0.0181	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/27/23 10:39	1/27/23 14:22		1.015	0.00179	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:22		1.015	0.128	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:22		1.015	0.0000952	mg/L	0.000068	0.000203	J
* Chromium, Total	1/27/23 10:39	1/27/23 14:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 14:22		1.015	0.00349	mg/L	0.000068	0.000203	
* Lead, Total	1/27/23 10:39	1/27/23 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 14:22		1.015	0.862	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:22		1.015	1.15	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:22		1.015	25.6	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 1/24/23 14:23
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01850

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:22		1.015	0.000294	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	0.00163	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	0.127	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	0.0000991	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	0.00332	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	0.888	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	1.15	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	25.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:33		1.015	0.000297	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	38.8	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	897	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	38.6	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	1/27/23 09:50	1/27/23 09:50		16	186	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:21	1/27/23 13:21		1	0.103	mg/L	0.06	0.125	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWASAP

Collected: 1/24/23 14:23

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01850

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:05	2/6/23 15:05		25	316	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/24/23 14:20	1/24/23 14:20			1301.29	uS/cm			FA
pH	1/24/23 14:20	1/24/23 14:20			7.55	SU			FA
Temperature	1/24/23 14:20	1/24/23 14:20			20.54	C			FA
Turbidity	1/24/23 14:20	1/24/23 14:20			2.94	NTU			FA
Sulfide	1/24/23 14:20	1/24/23 14:20			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 14:23

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BD01850

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0	
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0	
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0	
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0	
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0	
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0	
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0	
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0	
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0	
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0	
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0	
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0	
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0	
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0	
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0	
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0	
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0	
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0	
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0	
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0	
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0	
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 14:23

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BD01850

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 14:23
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BD01850

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-2

Location Code: WMWGASAPFB
Collected: 1/24/23 15:15
Customer ID:
Submittal Date: 1/26/23 09:48

Laboratory ID Number: BD01851

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/27/23 10:39	1/31/23 12:17		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	1/27/23 10:39	1/31/23 12:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	1/27/23 10:39	1/31/23 12:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/27/23 10:39	1/31/23 12:17		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:17		1	Not Detected	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:17		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	1/27/23 10:39	1/31/23 12:17		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:26		1.015	0.000139	mg/L	0.000102	0.000203	J
* Potassium, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	1/27/23 14:52	1/27/23 14:52		1	0.237	mg/L as N	0.20	0.3	J
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-2

Location Code: WMWGASAPFB
Collected: 1/24/23 15:15
Customer ID:
Submittal Date: 1/26/23 09:48

Laboratory ID Number: BD01851

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 17:57	1/26/23 17:57		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500C I E		Analyst: JCC							
* Chloride	1/27/23 09:43	1/27/23 09:43		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:23	1/27/23 13:23		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:06	2/6/23 15:06		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 1/24/23 15:15

Customer ID:

Delivery Date: 1/26/23 09:48

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BD01851

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 1/24/23 15:15
Customer ID:
Delivery Date: 1/26/23 09:48

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BD01851

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Limit	Prec				
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115		105	70.0 to 130		5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8			112	80.0 to 120		0.889	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 1/24/23 15:15

Customer ID:

Delivery Date: 1/26/23 09:48

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BD01851

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 1/25/23 10:16
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:20		1.015	0.141	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:24		10.15	49.6	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 12:20		1.015	0.193	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:20		1.015	0.0725	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 12:20		1.015	25.1	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:20		1	15.2	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:20		1.015	7.12	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 14:24		10.15	61.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:50		1.015	0.168	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:36		10.15	48.6	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 12:50		1.015	0.0191	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:50		1.015	0.0850	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 12:50		1.015	25.2	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:50		1	15.0	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:50		1.015	7.00	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 14:36		10.15	42.8	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:29		1.015	0.0157	mg/L	0.000508	0.001015	
* Aluminum, Total	1/27/23 10:39	1/27/23 14:29		1.015	0.0253	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/27/23 10:39	1/27/23 14:29		1.015	0.0145	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:29		1.015	0.0615	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:29		1.015	0.000256	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/27/23 10:39	1/27/23 14:29		1.015	0.0000849	mg/L	0.000068	0.000203	J
* Lead, Total	1/27/23 10:39	1/27/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 14:29		1.015	0.0850	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:29		1.015	0.0228	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:29		1.015	4.95	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP

Collected: 1/25/23 10:16

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	0.00700	mg/L	0.000508	0.001015	
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	0.0113	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	0.00892	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	0.0620	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	0.0909	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	0.00701	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	5.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	0.000842	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 14:53	1/27/23 14:53		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	267	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	317	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	264	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	2.49	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 18:12	1/26/23 18:12		1	4.45	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 1/25/23 10:16
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 09:51	1/27/23 09:51		2	24.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:24	1/27/23 13:24		1	0.234	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:07	2/6/23 15:07		1	20.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/25/23 10:13	1/25/23 10:13			586.13	uS/cm			FA
pH	1/25/23 10:13	1/25/23 10:13			7.72	SU			FA
Temperature	1/25/23 10:13	1/25/23 10:13			15.48	C			FA
Turbidity	1/25/23 10:13	1/25/23 10:13			9.21	NTU			FA
Sulfide	1/25/23 10:13	1/25/23 10:13			6.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/25/23 10:16
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BD01852

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 10:16

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BD01852

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8		112	80.0 to 120	0.889	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 10:16

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BD01852

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP

Collected: 1/25/23 12:08

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01853

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:24		1.015	0.135	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 12:24		1.015	24.4	mg/L	0.070035	0.406	
* Iron, Total	1/27/23 10:39	1/31/23 12:24		1.015	0.0241	mg/L	0.008120	0.0406	J
* Lithium, Total	1/27/23 10:39	1/31/23 12:24		1.015	0.0151	mg/L	0.007105	0.01999956	J
* Magnesium, Total	1/27/23 10:39	1/31/23 12:24		1.015	20.1	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:24		1	7.28	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:24		1.015	3.40	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 14:27		10.15	143	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:54		1.015	0.139	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 12:54		1.015	26.1	mg/L	0.070035	0.406	
* Iron, Dissolved	1/27/23 07:27	1/31/23 12:54		1.015	0.0233	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:54		1.015	0.0174	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 12:54		1.015	20.2	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:54		1	7.43	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:54		1.015	3.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 14:39		10.15	134	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 14:33		1.015	0.0103	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/27/23 10:39	1/27/23 14:33		1.015	0.00299	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:33		1.015	0.0843	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 14:33		1.015	0.0351	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:33		1.015	0.0446	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:33		1.015	41.4	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP

Collected: 1/25/23 12:08

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01853

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	0.00649	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	0.00275	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	0.0832	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	0.0347	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	0.0436	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	40.0	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 14:55	1/27/23 14:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	212	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	556	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	209	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	2.59	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 18:26	1/26/23 18:26		1	5.21	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 1/25/23 12:08
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01853

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 09:52	1/27/23 09:52		10	109	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:25	1/27/23 13:25		1	0.411	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:08	2/6/23 15:08		10	128	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/25/23 12:05	1/25/23 12:05			1068.15	uS/cm			FA
pH	1/25/23 12:05	1/25/23 12:05			8.12	SU			FA
Temperature	1/25/23 12:05	1/25/23 12:05			15.04	C			FA
Turbidity	1/25/23 12:05	1/25/23 12:05			1.46	NTU			FA
Sulfide	1/25/23 12:05	1/25/23 12:05			3.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 12:08

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BD01853

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 12:08

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BD01853

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01853	Sulfate	mg/L	-0.290	2.0	200	324	328	19.1	18.0 to 22.0	98.0	80.0 to 120	1.23	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8		112	80.0 to 120	0.889	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/25/23 12:08
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BD01853

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP
Collected: 1/25/23 15:05
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01854

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/27/23 10:39	1/31/23 14:30		10.15	43.0	mg/L	0.70035	4.06	RA
* Iron, Total	1/27/23 10:39	1/31/23 12:27		1.015	0.385	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/27/23 10:39	1/31/23 12:27		1.015	22.1	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:27		1	8.75	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:27		1.015	4.09	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 12:27		1.015	13.9	mg/L	0.03045	0.406	R
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 12:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/27/23 07:27	2/8/23 11:21		10.15	43.9	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 12:57		1.015	0.318	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 12:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 12:57		1.015	22.8	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 12:57		1	8.82	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 12:57		1.015	4.12	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 12:57		1.015	14.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 14:37		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 14:37		1.015	0.00165	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:37		1.015	0.0134	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 14:37		1.015	0.000132	mg/L	0.000068	0.000203	J
* Lead, Total	1/27/23 10:39	1/27/23 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 14:37		1.015	0.00949	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:37		1.015	0.0154	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:37		1.015	0.380	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP

Collected: 1/25/23 15:05

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01854

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	0.00170	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	0.0135	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	0.000127	mg/L	0.000068	0.000203	J
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	0.00877	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	0.0163	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	0.381	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 22:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 16:09	1/27/23 16:09		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	173	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	225	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	171	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	2.32	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 18:44	1/26/23 18:44		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWASAP
Collected: 1/25/23 15:05
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01854

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 09:46	1/27/23 09:46		1	14.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:26	1/27/23 13:26		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:20	2/6/23 15:20		1	26.6	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/25/23 15:02	1/25/23 15:02			412.96	uS/cm			FA
pH	1/25/23 15:02	1/25/23 15:02			7.69	SU			FA
Temperature	1/25/23 15:02	1/25/23 15:02			15.49	C			FA
Turbidity	1/25/23 15:02	1/25/23 15:02			2.92	NTU			FA
Sulfide	1/25/23 15:02	1/25/23 15:02			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/25/23 15:05
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BD01854

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD01854	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.104	0.107	0.103	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0
BD01854	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0993	0.101	0.0927	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0
BD01854	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.104	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0
BD01854	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.112	0.114	0.0972	0.0850 to 0.115	98.6	70.0 to 130	1.77	20.0
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BD01854	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.102	0.106	0.106	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0
BD01854	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.02	1.01	0.987	0.850 to 1.15	102	70.0 to 130	0.985	20.0
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BD01854	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.0991	0.0990	0.101	0.0850 to 0.115	99.1	70.0 to 130	0.101	20.0
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0
BD01854	Calcium, Total	mg/L	-0.0191	0.152	5.00	44.4	48.4	4.65	4.25 to 5.75	28.0	70.0 to 130	8.62	20.0
BD01854	Chloride	mg/L	0.0187	1.00	10.0	24.1	24.0	10.3	9.00 to 11.0	100	80.0 to 120	0.416	20.0
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0
BD01854	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.0993	0.101	0.0995	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD01854	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD01854	Fluoride	mg/L	0.013	0.125	2.50	2.65	2.64	2.61	2.25 to 2.75	106	80.0 to 120	0.378	20.0
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD01854	Iron, Total	mg/L	0.000437	0.0176	0.2	0.575	0.581	0.196	0.170 to 0.230	95.0	70.0 to 130	1.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 15:05

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BD01854

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01854	Lead, Total	mg/L	0.0000060	0.000147	0.100	0.102	0.106	0.103	0.0850 to 0.115	102	70.0 to 130	3.85	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01854	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.237	0.215	0.211	0.170 to 0.230	118	70.0 to 130	9.73	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01854	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	28.2	27.8	5.06	4.25 to 5.75	122	70.0 to 130	1.43	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01854	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.111	0.112	0.101	0.0850 to 0.115	102	70.0 to 130	0.897	20.0
BD01854	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00406	0.00405	0.00340 to 0.00460	101	70.0 to 130	0.247	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01854	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100	0.121	0.114	0.104	0.0850 to 0.115	106	70.0 to 130	5.96	20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01854	Potassium, Total	mg/L	0.0180	0.367	10.0	10.4	10.7	10.0	8.50 to 11.5	100	70.0 to 130	2.84	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01854	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.103	0.0992	0.102	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01854	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.16	5.08	1.01	0.850 to 1.15	107	70.0 to 130	1.56	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01854	Sodium, Total	mg/L	0.000025	0.0880	5.00	21.4	19.4	5.17	4.25 to 5.75	150	70.0 to 130	9.80	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01854	Thallium, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.111	0.106	0.0850 to 0.115	105	70.0 to 130	5.56	20.0
BD01854	Total Organic Carbon	mg/L	0.0871	1.00	10.0	11.2	11.3	10.8		112	80.0 to 120	0.889	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/25/23 15:05
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BD01854

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01854	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.025	1.94	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD01854	Solids, Dissolved	mg/L	0.0000	25.0			225	45.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 1/24/23 10:40
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01855

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:43		1.015	1.40	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:46		10.15	52.0	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 12:43		1.015	0.0413	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:43		1.015	0.394	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 12:43		1.015	16.6	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:43		1	3.87	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:43		1.015	1.81	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 12:43		1.015	26.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:00		1.015	1.42	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	2/8/23 11:28		10.15	53.1	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:00		1.015	0.385	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:00		1.015	16.0	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:00		1	3.92	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:00		1.015	1.83	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 13:00		1.015	28.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.00427	mg/L	0.000508	0.001015	
* Aluminum, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.0527	mg/L	0.006090	0.05075	
* Arsenic, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.00116	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.0659	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 14:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.000392	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.00151	mg/L	0.000068	0.000203	
* Lead, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.000208	mg/L	0.000068	0.000203	
* Manganese, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.0157	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.740	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 14:58		1.015	19.5	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 1/24/23 10:40
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01855

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 14:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 14:58		1.015	0.000719	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	0.00106	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	0.0636	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	0.00107	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	0.0000947	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	0.0146	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	0.718	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	19.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 12:47		1.015	0.000593	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:06	1/27/23 15:06		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	33.6	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	357	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	32.8	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	0.722	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 20:04	1/26/23 20:04		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 1/24/23 10:40
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01855

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:18	1/27/23 10:18		5	50.7	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:39	1/27/23 13:39		1	0.0946	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:35	2/6/23 15:35		10	146	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	1/24/23 10:37	1/24/23 10:37			567.97	uS/cm			FA
pH	1/24/23 10:37	1/24/23 10:37			8.47	SU			FA
Temperature	1/24/23 10:37	1/24/23 10:37			17.44	C			FA
Turbidity	1/24/23 10:37	1/24/23 10:37			9.83	NTU			FA
Sulfide	1/24/23 10:37	1/24/23 10:37			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 10:40
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BD01855

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01855	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.105	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01855	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0910	0.0885	0.0886	0.0850 to 0.115	91.0	70.0 to 130	2.79	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01855	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.105	0.101	0.106	0.0850 to 0.115	104	70.0 to 130	3.88	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01855	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.163	0.161	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.23	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01855	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.107	0.103	0.106	0.0850 to 0.115	107	70.0 to 130	3.81	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01855	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	2.47	2.48	1.03	0.850 to 1.15	105	70.0 to 130	0.404	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01855	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.101	0.0983	0.103	0.0850 to 0.115	101	70.0 to 130	2.71	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01855	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	57.8	59.2	5.09	4.25 to 5.75	94.0	70.0 to 130	2.39	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01855	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0988	0.0991	0.104	0.0850 to 0.115	98.8	70.0 to 130	0.303	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01855	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01855	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.211	0.213	0.206	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 10:40
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BD01855

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01855	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.103	0.0997	0.102	0.0850 to 0.115	103	70.0 to 130	3.26	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01855	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.607	0.615	0.198	0.170 to 0.230	111	70.0 to 130	1.31	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01855	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	21.1	21.3	5.10	4.25 to 5.75	102	70.0 to 130	0.943	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01855	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.115	0.116	0.106	0.0850 to 0.115	100	70.0 to 130	0.866	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01855	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100	0.843	0.816	0.107	0.0850 to 0.115	125	70.0 to 130	3.25	20.0
BD01861	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100			0.104	0.0850 to 0.115		70.0 to 130		20.0
BD01855	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	29.7	29.8	10.5	8.50 to 11.5	106	70.0 to 130	0.336	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01855	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.102	0.100	0.106	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01855	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	2.87	2.89	1.03	0.850 to 1.15	104	70.0 to 130	0.694	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01855	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	31.6	31.9	5.15	4.25 to 5.75	72.0	70.0 to 130	0.945	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01855	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 10:40

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BD01855

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 1/24/23 14:08
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01856

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:46		1.015	1.19	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:49		10.15	52.8	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 12:46		1.015	0.0354	mg/L	0.008120	0.0406	J
* Lithium, Total	1/27/23 10:39	1/31/23 12:46		1.015	0.335	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 12:46		1.015	20.6	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:46		1	4.56	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:46		1.015	2.13	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 12:46		1.015	30.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:17		1.015	1.24	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:43		10.15	51.2	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:17		1.015	0.0235	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:17		1.015	0.336	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:17		1.015	20.5	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:17		1	4.69	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:17		1.015	2.19	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 13:17		1.015	30.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 15:02		1.015	0.00799	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/27/23 10:39	1/27/23 15:02		1.015	0.00198	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 15:02		1.015	0.0638	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:02		1.015	0.000123	mg/L	0.000068	0.000203	J
* Chromium, Total	1/27/23 10:39	1/27/23 15:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 15:02		1.015	0.00246	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 15:02		1.015	1.08	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 15:02		1.015	16.0	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP

Collected: 1/24/23 14:08

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01856

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 15:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	0.00612	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	0.00207	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	0.0624	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	0.0000884	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	0.0000777	mg/L	0.000068	0.000203	J
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	0.00264	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	1.08	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	15.6	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:08	1/27/23 15:08		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	47.2	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	367	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	46.2	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	0.907	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 20:22	1/26/23 20:22		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 1/24/23 14:08
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01856

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:19	1/27/23 10:19		5	38.9	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:40	1/27/23 13:40		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:36	2/6/23 15:36		10	162	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	1/24/23 14:05	1/24/23 14:05			585.13	uS/cm			FA
pH	1/24/23 14:05	1/24/23 14:05			8.25	SU			FA
Temperature	1/24/23 14:05	1/24/23 14:05			19.51	C			FA
Turbidity	1/24/23 14:05	1/24/23 14:05			1.56	NTU			FA
Sulfide	1/24/23 14:05	1/24/23 14:05			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 14:08

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BD01856

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 14:08
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BD01856

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01864	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01861	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100			0.107	0.0850 to 0.115		70.0 to 130		20.0
BD01861	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100			0.104	0.0850 to 0.115		70.0 to 130		20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 14:08

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BD01856

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 1/25/23 11:17
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01857

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:49		1.015	2.17	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:52		10.15	121	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 12:49		1.015	0.108	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:49		1.015	0.634	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 12:49		1.015	36.8	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:49		1	3.34	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:49		1.015	1.56	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 14:52		10.15	49.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:21		1.015	2.26	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:46		10.15	124	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:21		1.015	0.0640	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:21		1.015	0.689	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:21		1.015	36.5	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:21		1	3.36	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:21		1.015	1.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 14:46		10.15	41.2	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:05		1.015	0.00475	mg/L	0.000508	0.001015	
* Aluminum, Total	1/27/23 10:39	1/27/23 15:05		1.015	0.0254	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/27/23 10:39	1/27/23 15:05		1.015	0.00146	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 15:05		1.015	0.0772	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:05		1.015	0.000166	mg/L	0.000068	0.000203	J
* Chromium, Total	1/27/23 10:39	1/27/23 15:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:05		1.015	0.0000873	mg/L	0.000068	0.000203	J
* Lead, Total	1/27/23 10:39	1/27/23 15:05		1.015	0.0000684	mg/L	0.000068	0.000203	J
* Manganese, Total	1/27/23 10:39	1/27/23 15:05		1.015	0.00993	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 16:09		5.075	2.15	mg/L	0.000508	0.001015	
* Potassium, Total	1/27/23 10:39	1/27/23 15:05		1.015	36.2	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP

Collected: 1/25/23 11:17

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01857

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	0.00199	mg/L	0.000508	0.001015	
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	0.00998	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	0.00137	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	0.0799	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	0.000176	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	0.0000757	mg/L	0.000068	0.000203	J
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	0.00890	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 16:13		5.075	2.20	mg/L	0.000508	0.001015	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	34.6	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:10	1/27/23 15:10		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	34.9	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	722	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	33.9	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	0.858	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 20:40	1/26/23 20:40		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 1/25/23 11:17
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01857

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:20	1/27/23 10:20		10	160	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:41	1/27/23 13:41		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:37	2/6/23 15:37		16	265	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	1/25/23 11:13	1/25/23 11:13			1096.71	uS/cm			FA
pH	1/25/23 11:13	1/25/23 11:13			8.35	SU			FA
Temperature	1/25/23 11:13	1/25/23 11:13			18.12	C			FA
Turbidity	1/25/23 11:13	1/25/23 11:13			5.54	NTU			FA
Sulfide	1/25/23 11:13	1/25/23 11:13			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 11:17

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BD01857

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 11:17

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BD01857

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01861	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100			0.107	0.0850 to 0.115		70.0 to 130		20.0
BD01861	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100			0.104	0.0850 to 0.115		70.0 to 130		20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 11:17

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BD01857

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 1/25/23 13:20
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01858

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:52		1.015	1.44	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:55		10.15	71.4	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 12:52		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	1/27/23 10:39	1/31/23 12:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/27/23 10:39	1/31/23 12:52		1.015	23.5	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:52		1	6.76	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:52		1.015	3.16	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 12:52		1.015	10.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:24		1.015	1.49	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 14:56		10.15	74.4	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:24		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:24		1.015	23.6	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:24		1	6.85	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:24		1.015	3.20	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 13:24		1.015	11.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 15:09		1.015	0.000136	mg/L	0.000081	0.000203	J
* Barium, Total	1/27/23 10:39	1/27/23 15:09		1.015	0.0203	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 15:09		1.015	0.000749	mg/L	0.000152	0.001015	J
* Molybdenum, Total	1/27/23 10:39	1/27/23 15:09		1.015	0.000484	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 15:09		1.015	3.34	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 1/25/23 13:20
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01858

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	0.000140	mg/L	0.000081	0.000203	J
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	0.0208	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	0.0000725	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	0.000632	mg/L	0.000152	0.001015	J
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	0.00593	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	3.38	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:12	1/27/23 15:12		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	147	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	345	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	145	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	1.76	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 20:52	1/26/23 20:52		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 1/25/23 13:20
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01858

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:07	1/27/23 10:07		1	14.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:42	1/27/23 13:42		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:42	2/6/23 15:42		11	110	mg/L	6.6	22	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	1/25/23 13:17	1/25/23 13:17			537.30	uS/cm			FA
pH	1/25/23 13:17	1/25/23 13:17			7.61	SU			FA
Temperature	1/25/23 13:17	1/25/23 13:17			17.62	C			FA
Turbidity	1/25/23 13:17	1/25/23 13:17			1.81	NTU			FA
Sulfide	1/25/23 13:17	1/25/23 13:17			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/25/23 13:20
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BD01858

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/25/23 13:20
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BD01858

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01864	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01861	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100			0.107	0.0850 to 0.115		70.0 to 130		20.0
BD01861	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100			0.104	0.0850 to 0.115		70.0 to 130		20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 13:20

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BD01858

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 1/24/23 10:38
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01859

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:55		1.015	0.392	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 12:55		1.015	37.1	mg/L	0.070035	0.406	
* Iron, Total	1/27/23 10:39	1/31/23 12:55		1.015	0.145	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:55		1.015	0.0390	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 12:55		1.015	19.1	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:55		1	7.47	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:55		1.015	3.49	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 12:55		1.015	25.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:27		1.015	0.402	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 13:27		1.015	39.9	mg/L	0.070035	0.406	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:27		1.015	0.139	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:27		1.015	0.0416	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:27		1.015	19.5	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:27		1	7.53	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:27		1.015	3.52	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 13:27		1.015	26.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 15:12		1.015	0.000801	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 15:12		1.015	0.0371	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 15:12		1.015	0.00759	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 15:12		1.015	0.136	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 15:12		1.015	2.32	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 1/24/23 10:38
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01859

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	0.000724	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	0.0359	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	0.00728	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	0.141	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	2.28	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:14	1/27/23 15:14		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	119	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	262	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	117	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	2.05	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 21:09	1/26/23 21:09		1	1.36	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 1/24/23 10:38
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01859

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:08	1/27/23 10:08		1	14.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:44	1/27/23 13:44		1	0.158	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:40	2/6/23 15:40		4	80.2	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	1/24/23 10:34	1/24/23 10:34			464.47	uS/cm			FA
pH	1/24/23 10:34	1/24/23 10:34			7.99	SU			FA
Temperature	1/24/23 10:34	1/24/23 10:34			20.28	C			FA
Turbidity	1/24/23 10:34	1/24/23 10:34			0.65	NTU			FA
Sulfide	1/24/23 10:34	1/24/23 10:34			1	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 10:38
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BD01859

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 10:38

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BD01859

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01861	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100			0.107	0.0850 to 0.115		70.0 to 130		20.0
BD01861	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100			0.104	0.0850 to 0.115		70.0 to 130		20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 10:38

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BD01859

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 1/24/23 12:30
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01860

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 12:58		1.015	2.19	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 14:59		10.15	98.3	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 12:58		1.015	0.0855	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 12:58		1.015	0.0258	mg/L	0.007105	0.01999956	
* Magnesium, Total	1/27/23 10:39	1/31/23 12:58		1.015	27.9	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 12:58		1	6.72	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 12:58		1.015	3.14	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 14:59		10.15	64.5	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:31		1.015	2.23	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 15:00		10.15	99.9	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:31		1.015	0.0813	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:31		1.015	0.0278	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:31		1.015	27.3	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:31		1	6.78	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:31		1.015	3.17	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 15:00		10.15	56.8	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 15:16		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 15:16		1.015	0.000708	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 15:16		1.015	0.0560	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 15:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:16		1.015	0.000344	mg/L	0.000068	0.000203	
* Lead, Total	1/27/23 10:39	1/27/23 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 15:16		1.015	0.361	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 15:16		1.015	0.143	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 15:16		1.015	6.15	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP

Collected: 1/24/23 12:30

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01860

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 15:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	0.000784	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	0.0542	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	0.000374	mg/L	0.000068	0.000203	
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	0.383	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	0.157	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	6.08	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:16	1/27/23 15:16		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	89.9	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	562	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	89.3	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	0.555	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 21:24	1/26/23 21:24		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP

Collected: 1/24/23 12:30

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01860

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:21	1/27/23 10:21		10	91.2	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:45	1/27/23 13:45		1	0.0768	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:41	2/6/23 15:41		16	219	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	1/24/23 12:26	1/24/23 12:26			937.76	uS/cm			FA
pH	1/24/23 12:26	1/24/23 12:26			7.60	SU			FA
Temperature	1/24/23 12:26	1/24/23 12:26			19.05	C			FA
Turbidity	1/24/23 12:26	1/24/23 12:26			0.33	NTU			FA
Sulfide	1/24/23 12:26	1/24/23 12:26			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 12:30
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BD01860

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 12:30
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BD01860

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01861	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100			0.107	0.0850 to 0.115		70.0 to 130		20.0
BD01861	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100			0.104	0.0850 to 0.115		70.0 to 130		20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 12:30

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BD01860

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP
Collected: 1/24/23 16:20
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01861

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	1/27/23 10:39	1/31/23 13:02		1.015	0.144	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 15:02		10.15	48.9	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 13:02		1.015	0.0414	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 13:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/27/23 10:39	1/31/23 13:02		1.015	25.5	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 13:02		1	10.2	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 13:02		1.015	4.75	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 13:02		1.015	28.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:34		1.015	0.150	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 15:03		10.15	48.5	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:34		1.015	0.0352	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:34		1.015	25.4	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:34		1	10.3	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:34		1.015	4.83	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 13:34		1.015	28.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	1/27/23 10:39	1/27/23 15:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 15:19		1.015	0.0189	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/27/23 10:39	1/27/23 15:19		1.015	0.00650	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 15:19		1.015	0.0314	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 15:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 15:19		1.015	0.0309	mg/L	0.000152	0.001015	
* Molybdenum, Total	1/27/23 10:39	1/27/23 15:19		1.015	0.0292	mg/L	0.000102	0.000203	
* Potassium, Total	1/27/23 10:39	1/27/23 15:19		1.015	1.04	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP

Collected: 1/24/23 16:20

Customer ID:

Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01861

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	1/27/23 10:39	1/27/23 15:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	0.0146	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	0.00627	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	0.0323	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	0.0311	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	0.0258	mg/L	0.000102	0.000203	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	1.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:17	1/27/23 15:17		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	213	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	271	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	211	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	1.77	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 21:41	1/26/23 21:41		1	1.52	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP
Collected: 1/24/23 16:20
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01861

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:10	1/27/23 10:10		1	17.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:46	1/27/23 13:46		1	0.204	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:29	2/6/23 15:29		1	33.5	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	1/24/23 16:17	1/24/23 16:17			523.18	uS/cm			FA
pH	1/24/23 16:17	1/24/23 16:17			7.80	SU			FA
Temperature	1/24/23 16:17	1/24/23 16:17			18.51	C			FA
Turbidity	1/24/23 16:17	1/24/23 16:17			0.5	NTU			FA
Sulfide	1/24/23 16:17	1/24/23 16:17			10	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 16:20

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BD01861

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/24/23 16:20
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BD01861

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01861	Molybdenum, Dissolved	mg/L	-0.0000074	0.0002	0.100			0.107	0.0850 to 0.115		70.0 to 130		20.0
BD01861	Molybdenum, Total	mg/L	0.0000747	0.0002	0.100			0.104	0.0850 to 0.115		70.0 to 130		20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/24/23 16:20

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BD01861

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 1/25/23 10:30
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01862

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 13:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/27/23 10:39	1/31/23 13:05		1.015	29.1	mg/L	0.070035	0.406	
* Iron, Total	1/27/23 10:39	1/31/23 13:05		1.015	0.281	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 13:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/27/23 10:39	1/31/23 13:05		1.015	14.7	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 13:05		1	10.1	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 13:05		1.015	4.73	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 13:05		1.015	36.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:37		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/27/23 07:27	1/31/23 13:37		1.015	31.1	mg/L	0.070035	0.406	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:37		1.015	0.233	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:37		1.015	14.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	1/27/23 07:27	1/31/23 13:37		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:37		1	10.1	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:37		1.015	4.73	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 13:37		1.015	35.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 15:23		1.015	0.00295	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 15:23		1.015	0.111	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 15:23		1.015	0.0891	mg/L	0.000152	0.001015	
* Molybdenum, Total	3/2/23 11:41	3/2/23 14:50		1.015	0.00114	mg/L	0.000102	0.000203	C

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 1/25/23 10:30
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01862

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	1/27/23 10:39	1/27/23 15:23		1.015	0.526	mg/L	0.169505	0.5075	
* Selenium, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	0.00240	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	0.110	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	0.0881	mg/L	0.000152	0.001015	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	0.544	mg/L	0.169505	0.5075	
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:19	1/27/23 15:19		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	182	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	207	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	180	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	1.48	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 21:59	1/26/23 21:59		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 1/25/23 10:30
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01862

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:12	1/27/23 10:12		1	9.40	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:47	1/27/23 13:47		1	0.101	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:30	2/6/23 15:30		1	18.6	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	1/25/23 10:24	1/25/23 10:24			414.61	uS/cm			FA
pH	1/25/23 10:24	1/25/23 10:24			7.75	SU			FA
Temperature	1/25/23 10:24	1/25/23 10:24			14.84	C			FA
Turbidity	1/25/23 10:24	1/25/23 10:24			0.42	NTU			FA
Sulfide	1/25/23 10:24	1/25/23 10:24			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 10:30

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BD01862

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 10:30

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BD01862

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01864	Molybdenum, Dissolved	mg/L	0.000178	0.0100	0.2	0.203	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD02866	Molybdenum, Total	mg/L	0.0000164	0.0002	0.100	0.104	0.104	0.0980	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 10:30

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BD01862

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 1/25/23 12:30
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01863

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 13:08		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/27/23 10:39	1/31/23 15:05		10.15	53.1	mg/L	0.70035	4.06	
* Iron, Total	1/27/23 10:39	1/31/23 13:08		1.015	0.465	mg/L	0.008120	0.0406	
* Lithium, Total	1/27/23 10:39	1/31/23 13:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/27/23 10:39	1/31/23 13:08		1.015	26.2	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 13:08		1	9.97	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 13:08		1.015	4.66	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 13:08		1.015	15.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:41		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	1/27/23 07:27	1/31/23 15:06		10.15	57.7	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:41		1.015	0.386	mg/L	0.008120	0.0406	
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:41		1.015	26.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	1/27/23 07:27	1/31/23 13:41		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:41		1	9.99	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:41		1.015	4.67	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 13:41		1.015	15.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 15:26		1.015	0.000553	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 15:26		1.015	0.0134	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 15:26		1.015	0.0146	mg/L	0.000152	0.001015	
* Molybdenum, Total	3/2/23 11:41	3/2/23 14:54		1.015	0.000577	mg/L	0.000102	0.000203	C

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 1/25/23 12:30
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01863

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	1/27/23 10:39	1/27/23 15:26		1.015	0.308	mg/L	0.169505	0.5075	J
* Selenium, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	0.000525	mg/L	0.000081	0.000203	
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	0.0132	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	0.0135	mg/L	0.000152	0.001015	
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	0.325	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 15:21	1/27/23 15:21		1	1.71	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	257	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	227	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	255	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	1.95	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 22:13	1/26/23 22:13		1	2.10	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWASAP
Collected: 1/25/23 12:30
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01863

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:13	1/27/23 10:13		1	3.58	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:48	1/27/23 13:48		1	0.0614	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:31	2/6/23 15:31		1	1.96	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	1/25/23 12:27	1/25/23 12:27			485.38	uS/cm			FA
pH	1/25/23 12:27	1/25/23 12:27			7.45	SU			FA
Temperature	1/25/23 12:27	1/25/23 12:27			17.01	C			FA
Turbidity	1/25/23 12:27	1/25/23 12:27			0.62	NTU			FA
Sulfide	1/25/23 12:27	1/25/23 12:27			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 12:30

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BD01863

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.0000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/25/23 12:30
Customer ID:
Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BD01863

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Lead, Dissolved	mg/L	0.0000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.0000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01864	Molybdenum, Dissolved	mg/L	0.000178	0.0100	0.2	0.203	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD02866	Molybdenum, Total	mg/L	0.0000164	0.0002	0.100	0.104	0.104	0.0980	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD01863	Sulfate	mg/L	-0.226	2.0	20.0	19.8	20.1	18.8	18.0 to 22.0	89.2	80.0 to 120	1.50	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 12:30

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BD01863

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 1/25/23 14:55
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01864

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 13:11		1.015	0.327	mg/L	0.030000	0.1015	
* Calcium, Total	1/27/23 10:39	1/31/23 15:08		10.15	43.0	mg/L	0.70035	4.06	RA
* Iron, Total	1/27/23 10:39	1/31/23 13:11		1.015	0.0132	mg/L	0.008120	0.0406	J
* Lithium, Total	1/27/23 10:39	1/31/23 13:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/27/23 10:39	1/31/23 13:11		1.015	22.2	mg/L	0.021315	0.406	
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 13:11		1	8.92	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 13:11		1.015	4.17	mg/L	0.02030	0.25375	
* Sodium, Total	1/27/23 10:39	1/31/23 13:11		1.015	5.82	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	1/27/23 07:27	1/31/23 13:44		1.015	0.326	mg/L	0.030000	0.1015	
* Calcium, Dissolved	1/27/23 07:27	1/31/23 15:10		10.15	43.6	mg/L	0.70035	4.06	
* Iron, Dissolved	1/27/23 07:27	1/31/23 13:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	1/27/23 07:27	1/31/23 13:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	1/27/23 07:27	1/31/23 13:44		1.015	22.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	1/27/23 07:27	1/31/23 13:44		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	1/27/23 07:27	1/31/23 13:44		1	9.07	mg/L			
* Silicon, Dissolved	1/27/23 07:27	1/31/23 13:44		1.015	4.24	mg/L	0.02030	0.25375	
* Sodium, Dissolved	1/27/23 07:27	1/31/23 13:44		1.015	6.26	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.00275	mg/L	0.000508	0.001015	
* Aluminum, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.0113	mg/L	0.006090	0.05075	J
* Arsenic, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.000212	mg/L	0.000081	0.000203	
* Barium, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.00984	mg/L	0.000508	0.001015	
* Beryllium, Total	1/27/23 10:39	1/27/23 15:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.00101	mg/L	0.000203	0.001015	J
* Cobalt, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.0000750	mg/L	0.000068	0.000203	J
* Lead, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.000107	mg/L	0.000068	0.000203	J
* Manganese, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.00499	mg/L	0.000152	0.001015	
* Molybdenum, Total	3/2/23 11:41	3/2/23 14:58		1.015	0.000291	mg/L	0.000102	0.000203	C

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 1/25/23 14:55
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01864

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	1/27/23 10:39	1/27/23 15:30		1.015	0.378	mg/L	0.169505	0.5075	J
* Selenium, Total	1/27/23 10:39	1/27/23 15:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	0.000738	mg/L	0.000508	0.001015	J
* Aluminum, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	0.000142	mg/L	0.000081	0.000203	J
* Barium, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	0.00903	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	0.000425	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	0.000907	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	0.338	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	1/27/23 07:27	1/27/23 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/1/23 18:12	2/1/23 23:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	1/27/23 16:13	1/27/23 16:13		1	0.787	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/6/23 12:55	2/6/23 16:12		1	127	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	1/31/23 12:35	2/1/23 13:55		1	234	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	126	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/6/23 12:55	2/6/23 16:12		1	1.32	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 22:28	1/26/23 22:28		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 1/25/23 14:55
Customer ID:
Submittal Date: 1/26/23 09:44

Laboratory ID Number: BD01864

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:14	1/27/23 10:14		1	7.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 13:50	1/27/23 13:50		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:09	2/6/23 16:09		3	57.8	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	1/25/23 14:51	1/25/23 14:51			408.92	uS/cm			FA
pH	1/25/23 14:51	1/25/23 14:51			7.81	SU			FA
Temperature	1/25/23 14:51	1/25/23 14:51			17.81	C			FA
Turbidity	1/25/23 14:51	1/25/23 14:51			2.33	NTU			FA
Sulfide	1/25/23 14:51	1/25/23 14:51			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 14:55

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BD01864

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD01864	Aluminum, Dissolved	mg/L	-0.000528	0.0198	0.100	0.102	0.105	0.105	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01864	Aluminum, Total	mg/L	0.000805	0.0198	0.100	0.118	0.116	0.103	0.0850 to 0.115	107	70.0 to 130	1.71	20.0
BD01864	Antimony, Dissolved	mg/L	0.000405	0.00100	0.100	0.0898	0.0881	0.0886	0.0850 to 0.115	89.1	70.0 to 130	1.91	20.0
BD01864	Antimony, Total	mg/L	0.000361	0.00100	0.100	0.0991	0.0978	0.0927	0.0850 to 0.115	96.4	70.0 to 130	1.32	20.0
BD01864	Arsenic, Dissolved	mg/L	0.000065	0.000200	0.100	0.102	0.103	0.106	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD01864	Arsenic, Total	mg/L	0.000137	0.000200	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD01864	Barium, Dissolved	mg/L	0.0000128	0.00100	0.100	0.108	0.106	0.0993	0.0850 to 0.115	99.0	70.0 to 130	1.87	20.0
BD01864	Barium, Total	mg/L	0.0000045	0.00100	0.100	0.111	0.108	0.0972	0.0850 to 0.115	101	70.0 to 130	2.74	20.0
BD01864	Beryllium, Dissolved	mg/L	0.0000357	0.000880	0.100	0.0901	0.101	0.106	0.0850 to 0.115	90.1	70.0 to 130	11.4	20.0
BD01864	Beryllium, Total	mg/L	0.0000257	0.000880	0.100	0.103	0.103	0.106	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD01864	Boron, Dissolved	mg/L	-0.00215	0.0650	1.00	1.36	1.37	1.03	0.850 to 1.15	103	70.0 to 130	0.733	20.0
BD01864	Boron, Total	mg/L	-0.000302	0.0650	1.00	1.34	1.34	0.987	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BD01864	Cadmium, Dissolved	mg/L	0.0000057	0.000147	0.100	0.103	0.0992	0.103	0.0850 to 0.115	103	70.0 to 130	3.76	20.0
BD01864	Cadmium, Total	mg/L	0.0000054	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD01864	Calcium, Dissolved	mg/L	-0.00489	0.152	5.00	47.3	49.9	5.09	4.25 to 5.75	74.0	70.0 to 130	5.35	20.0
BD01864	Calcium, Total	mg/L	-0.0191	0.152	5.00	46.2	45.3	4.65	4.25 to 5.75	64.0	70.0 to 130	1.97	20.0
BD01864	Chloride	mg/L	0.00595	1.00	10.0	18.5	18.5	10.3	9.00 to 11.0	107	80.0 to 120	0.00	20.0
BD01864	Chromium, Dissolved	mg/L	-0.0000118	0.000440	0.100	0.0981	0.102	0.104	0.0850 to 0.115	97.7	70.0 to 130	3.90	20.0
BD01864	Chromium, Total	mg/L	0.000297	0.000440	0.100	0.102	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.103	0.105	0.109	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD01864	Cobalt, Total	mg/L	0.0000062	0.000147	0.100	0.106	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD01864	Fluoride	mg/L	0.000759	0.125	2.50	2.62	2.61	2.60	2.25 to 2.75	105	80.0 to 120	0.382	20.0
BD01864	Iron, Dissolved	mg/L	-4.770E-05	0.0176	0.2	0.206	0.208	0.206	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BD01864	Iron, Total	mg/L	0.000437	0.0176	0.2	0.216	0.215	0.196	0.170 to 0.230	101	70.0 to 130	0.464	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 14:55

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BD01864

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD01864	Lead, Dissolved	mg/L	0.000081	0.000147	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD01864	Lead, Total	mg/L	0.000006	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01864	Lithium, Dissolved	mg/L	-1.650E-05	0.0154	0.200	0.214	0.216	0.198	0.170 to 0.230	107	70.0 to 130	0.930	20.0
BD01864	Lithium, Total	mg/L	-0.000505	0.0154	0.200	0.211	0.216	0.211	0.170 to 0.230	106	70.0 to 130	2.34	20.0
BD01864	Magnesium, Dissolved	mg/L	0.000765	0.0462	5.00	27.4	27.5	5.10	4.25 to 5.75	98.0	70.0 to 130	0.364	20.0
BD01864	Magnesium, Total	mg/L	-0.0360	0.0462	5.00	27.4	27.2	5.06	4.25 to 5.75	104	70.0 to 130	0.733	20.0
BD01864	Manganese, Dissolved	mg/L	0.0000034	0.00033	0.100	0.102	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BD01864	Manganese, Total	mg/L	0.0000368	0.00033	0.100	0.108	0.106	0.101	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD01864	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00402	0.00377	0.00405	0.00340 to 0.00460	100	70.0 to 130	6.42	20.0
BD01864	Molybdenum, Dissolved	mg/L	0.000178	0.0100	0.2	0.203	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD02866	Molybdenum, Total	mg/L	0.0000164	0.0002	0.100	0.104	0.104	0.0980	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD01864	Potassium, Dissolved	mg/L	0.0224	0.367	10.0	10.4	10.5	10.5	8.50 to 11.5	101	70.0 to 130	0.957	20.0
BD01864	Potassium, Total	mg/L	0.0180	0.367	10.0	10.7	10.5	10.0	8.50 to 11.5	103	70.0 to 130	1.89	20.0
BD01864	Selenium, Dissolved	mg/L	0.000148	0.00100	0.100	0.101	0.103	0.106	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01864	Selenium, Total	mg/L	0.000101	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD01864	Silicon, Dissolved	mg/L	-0.00211	0.0440	1.00	5.23	5.25	1.03	0.850 to 1.15	99.0	70.0 to 130	0.382	20.0
BD01864	Silicon, Total	mg/L	0.00192	0.0440	1.00	5.19	5.22	1.01	0.850 to 1.15	102	70.0 to 130	0.576	20.0
BD01864	Sodium, Dissolved	mg/L	0.00943	0.0880	5.00	11.9	11.9	5.15	4.25 to 5.75	113	70.0 to 130	0.00	20.0
BD01864	Sodium, Total	mg/L	0.000025	0.0880	5.00	11.1	11.2	5.17	4.25 to 5.75	106	70.0 to 130	0.897	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0
BD01864	Thallium, Dissolved	mg/L	0.000002	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01864	Thallium, Total	mg/L	0.00001	0.000147	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD01864	Total Organic Carbon	mg/L	0.0681	1.00	10.0	11.3	11.4	11.0		113	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/25/23 14:55

Customer ID:

Delivery Date: 1/26/23 09:44

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BD01864

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01864	Alkalinity to pH 4.5	mg CaCO3/L					124	49.9	45.0 to 55.0			2.39	10.0
BD01864	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.83	0.772	1.97	1.80 to 2.20	102	90.0 to 110	1.92	15.0
BD01864	Solids, Dissolved	mg/L	2.00	25.0			234	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-1

Location Code: WMWGASAPFB

Collected: 1/25/23 15:35

Customer ID:

Submittal Date: 1/26/23 09:49

Laboratory ID Number: BD01865

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	1/27/23 10:39	1/31/23 13:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	1/27/23 10:39	1/31/23 13:33		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	1/27/23 10:39	1/31/23 13:33		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	1/27/23 10:39	1/31/23 13:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	1/27/23 10:39	1/31/23 13:33		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	1/27/23 10:39	1/31/23 13:33		1	Not Detected	mg/L			
* Silicon, Total	1/27/23 10:39	1/31/23 13:33		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	1/27/23 10:39	1/31/23 13:33		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	1/27/23 10:39	1/27/23 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	2/1/23 18:12	2/2/23 00:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	1/27/23 16:16	1/27/23 16:16		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	1/27/23 09:55	2/1/23 10:20		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-1

Location Code: WMWGASAPFB
Collected: 1/25/23 15:35
Customer ID:
Submittal Date: 1/26/23 09:49

Laboratory ID Number: BD01865

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	1/26/23 23:49	1/26/23 23:49		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	1/27/23 10:32	1/27/23 10:32		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	1/27/23 14:03	1/27/23 14:03		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 15:56	2/6/23 15:56		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 1/25/23 15:35

Customer ID:

Delivery Date: 1/26/23 09:49

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BD01865

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BD01865	Aluminum, Total	mg/L	0.000568	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD01865	Antimony, Total	mg/L	0.000352	0.00100	0.100	0.0900	0.0947	0.0940	0.0850 to 0.115	90.0	70.0 to 130	5.09	20.0
BD01865	Arsenic, Total	mg/L	0.0000062	0.000200	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD01865	Barium, Total	mg/L	0.0000087	0.00100	0.100	0.0995	0.104	0.0986	0.0850 to 0.115	99.5	70.0 to 130	4.42	20.0
BD01865	Beryllium, Total	mg/L	0.0000246	0.000880	0.100	0.101	0.105	0.0977	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BD01865	Boron, Total	mg/L	-0.000073	0.0650	1.00	0.989	0.993	0.989	0.850 to 1.15	98.9	70.0 to 130	0.404	20.0
BD01865	Cadmium, Total	mg/L	0.0000028	0.000147	0.100	0.101	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD01865	Calcium, Total	mg/L	-0.0169	0.152	5.00	4.57	4.44	4.72	4.25 to 5.75	91.4	70.0 to 130	2.89	20.0
BD01865	Chloride	mg/L	0.0433	1.00	10.0	10.1	10.4	10.3	9.00 to 11.0	101	80.0 to 120	2.93	20.0
BD01865	Chromium, Total	mg/L	-0.0000024	0.000440	0.100	0.101	0.103	0.0991	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD01865	Cobalt, Total	mg/L	0.0000050	0.000147	0.100	0.105	0.107	0.105	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD01865	Fluoride	mg/L	0.0146	0.125	2.50	2.53	2.55	2.54	2.25 to 2.75	101	80.0 to 120	0.787	20.0
BD01865	Iron, Total	mg/L	-0.00109	0.0176	0.2	0.199	0.199	0.198	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD01865	Lead, Total	mg/L	0.0000094	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD01865	Lithium, Total	mg/L	-0.00032	0.0154	0.200	0.216	0.224	0.211	0.170 to 0.230	108	70.0 to 130	3.64	20.0
BD01865	Magnesium, Total	mg/L	-0.0331	0.0462	5.00	5.13	5.16	5.08	4.25 to 5.75	103	70.0 to 130	0.583	20.0
BD01865	Manganese, Total	mg/L	0.0000151	0.00033	0.100	0.101	0.105	0.102	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BD01865	Mercury, Total by CVAA	mg/L	8.000E-05	0.000500	0.004	0.00405	0.00407	0.00392	0.00340 to 0.00460	101	70.0 to 130	0.493	20.0
BD01865	Molybdenum, Total	mg/L	0.0000222	0.0002	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD01865	Potassium, Total	mg/L	0.0241	0.367	10.0	10.1	10.5	10.3	8.50 to 11.5	101	70.0 to 130	3.88	20.0
BD01865	Selenium, Total	mg/L	0.0000876	0.00100	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD01865	Silicon, Total	mg/L	0.000925	0.0440	1.00	1.03	1.03	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD01865	Sodium, Total	mg/L	0.00156	0.0880	5.00	5.25	5.43	5.09	4.25 to 5.75	105	70.0 to 130	3.37	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 1/25/23 15:35

Customer ID:

Delivery Date: 1/26/23 09:49

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BD01865

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD01865	Thallium, Total	mg/L	0.0000051	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD01865	Total Organic Carbon	mg/L	0.0539	1.00	10.0	11.2	11.3	10.9		112	80.0 to 120	0.889	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 1/25/23 15:35

Customer ID:

Delivery Date: 1/26/23 09:49

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BD01865

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD01865	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	1.99	-0.044	2.03	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD01863	Solids, Dissolved	mg/L	0.0000	25.0			237	45.0	40.0 to 60.0			4.31	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 1/30/23 12:14
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02443

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	2/3/23 06:10	2/8/23 12:44		1.015	1.45	mg/L	0.030000	0.1015	
* Calcium, Total	2/3/23 06:10	2/8/23 14:04		10.15	131	mg/L	0.70035	4.06	
* Iron, Total	2/3/23 06:10	2/8/23 12:44		1.015	0.193	mg/L	0.008120	0.0406	
* Lithium, Total	2/3/23 06:10	2/8/23 12:44		1.015	0.198	mg/L	0.007105	0.01999956	
* Magnesium, Total	2/3/23 06:10	2/8/23 12:44		1.015	10.8	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 12:44		1	5.05	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 12:44		1.015	2.36	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 12:44		1.015	27.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:29		1.015	1.42	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/2/23 12:28	2/8/23 14:05		10.15	117	mg/L	0.70035	4.06	
* Iron, Dissolved	2/2/23 12:28	2/8/23 12:29		1.015	0.157	mg/L	0.008120	0.0406	
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:29		1.015	0.206	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 12:29		1.015	10.3	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:29		1	5.11	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:29		1.015	2.39	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:29		1.015	27.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.000516	mg/L	0.000508	0.001015	J
* Aluminum, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.0260	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.00588	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.0894	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 11:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.000272	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.00119	mg/L	0.000068	0.000203	
* Lead, Total	2/3/23 06:10	2/3/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.685	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.556	mg/L	0.000102	0.000203	
* Potassium, Total	2/3/23 06:10	2/3/23 11:51		1.015	18.1	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP

Collected: 1/30/23 12:14

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02443

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 11:51		1.015	0.000105	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	0.00647	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	0.00536	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	0.0889	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	0.00109	mg/L	0.000068	0.000203	
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	0.666	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	0.549	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	17.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:23		1.015	0.0000732	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 21:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:21	2/2/23 14:21		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	27.9	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	528	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	27.8	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 14:17	2/2/23 14:17		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP

Collected: 1/30/23 12:14

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02443

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 11:58	2/2/23 11:58		8	122	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:34	2/3/23 10:34		1	0.117	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:10	2/6/23 16:10		16	186	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/30/23 12:11	1/30/23 12:11			855.51	uS/cm			FA
pH	1/30/23 12:11	1/30/23 12:11			8.04	SU			FA
Temperature	1/30/23 12:11	1/30/23 12:11			20.40	C			FA
Turbidity	1/30/23 12:11	1/30/23 12:11			3.84	NTU			FA
Sulfide	1/30/23 12:11	1/30/23 12:11			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/30/23 12:14
Customer ID:
Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BD02443

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/30/23 12:14
Customer ID:
Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BD02443

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/30/23 12:14

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BD02443

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP

Collected: 1/30/23 14:02

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02444

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 12:47		1.015	0.802	mg/L	0.030000	0.1015	
* Calcium, Total	2/3/23 06:10	2/8/23 14:07		10.15	44.6	mg/L	0.70035	4.06	
* Iron, Total	2/3/23 06:10	2/8/23 12:47		1.015	0.0623	mg/L	0.008120	0.0406	
* Lithium, Total	2/3/23 06:10	2/8/23 12:47		1.015	0.152	mg/L	0.007105	0.01999956	
* Magnesium, Total	2/3/23 06:10	2/8/23 12:47		1.015	18.2	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 12:47		1	5.01	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 12:47		1.015	2.34	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 12:47		1.015	21.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:33		1.015	0.784	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/2/23 12:28	2/8/23 14:08		10.15	43.8	mg/L	0.70035	4.06	
* Iron, Dissolved	2/2/23 12:28	2/8/23 12:33		1.015	0.0325	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:33		1.015	0.150	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 12:33		1.015	17.6	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:33		1	4.86	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:33		1.015	2.27	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:33		1.015	21.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 11:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.0682	mg/L	0.006090	0.05075	
* Arsenic, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.00275	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.0328	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 11:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.000278	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.000319	mg/L	0.000068	0.000203	
* Lead, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.0000710	mg/L	0.000068	0.000203	J
* Manganese, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.0129	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.475	mg/L	0.000102	0.000203	
* Potassium, Total	2/3/23 06:10	2/3/23 11:54		1.015	11.0	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP
Collected: 1/30/23 14:02
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02444

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 11:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 11:54		1.015	0.000236	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	0.00636	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	0.00245	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	0.0328	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	0.000262	mg/L	0.000068	0.000203	
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	0.0123	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	0.476	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	10.6	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:26		1.015	0.000212	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 21:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:23	2/2/23 14:23		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	57.9	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	285	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	57.3	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	0.527	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 14:35	2/2/23 14:35		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWASAP

Collected: 1/30/23 14:02

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02444

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 11:59	2/2/23 11:59		3	24.7	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:35	2/3/23 10:35		1	0.0758	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:12	2/6/23 16:12		10	134	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/30/23 13:59	1/30/23 13:59			479.92	uS/cm			FA
pH	1/30/23 13:59	1/30/23 13:59			8.28	SU			FA
Temperature	1/30/23 13:59	1/30/23 13:59			20.43	C			FA
Turbidity	1/30/23 13:59	1/30/23 13:59			1.75	NTU			FA
Sulfide	1/30/23 13:59	1/30/23 13:59			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/30/23 14:02
Customer ID:
Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BD02444

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/30/23 14:02

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BD02444

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/30/23 14:02

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BD02444

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 1/31/23 08:19
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02445

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 12:50		1.015	1.37	mg/L	0.030000	0.1015	
* Calcium, Total	2/3/23 06:10	2/8/23 12:50		1.015	36.3	mg/L	0.070035	0.406	
* Iron, Total	2/3/23 06:10	2/8/23 12:50		1.015	0.0298	mg/L	0.008120	0.0406	J
* Lithium, Total	2/3/23 06:10	2/8/23 12:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 14:10		10.15	46.2	mg/L	0.21315	4.06	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 12:50		1	11.2	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 12:50		1.015	5.23	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 12:50		1.015	23.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:36		1.015	1.34	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/2/23 12:28	2/8/23 12:36		1.015	38.9	mg/L	0.070035	0.406	
* Iron, Dissolved	2/2/23 12:28	2/8/23 12:36		1.015	0.0462	mg/L	0.008120	0.0406	
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 14:12		10.15	44.2	mg/L	0.21315	4.06	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:36		1	11.2	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:36		1.015	5.25	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:36		1.015	23.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 11:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 11:58		1.015	0.0108	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/3/23 06:10	2/3/23 11:58		1.015	0.00142	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 11:58		1.015	0.0495	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 11:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 11:58		1.015	0.000231	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/3/23 06:10	2/3/23 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 11:58		1.015	0.00831	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 11:58		1.015	0.00131	mg/L	0.000102	0.000203	
* Potassium, Total	2/3/23 06:10	2/3/23 11:58		1.015	3.77	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP

Collected: 1/31/23 08:19

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02445

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/2/23 11:41	3/2/23 13:21		1.015	0.000946	mg/L	0.000508	0.001015	J
* Thallium, Total	2/3/23 06:10	2/3/23 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	0.00777	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	0.00140	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	0.0512	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	0.000236	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	0.0101	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	0.00318	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	3.37	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/2/23 09:27	3/2/23 13:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:25	2/2/23 14:25		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	176	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	325	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	175	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	1.30	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 14:48	2/2/23 14:48		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP

Collected: 1/31/23 08:19

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02445

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 12:00	2/2/23 12:00		5	51.0	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:37	2/3/23 10:37		1	0.0635	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:13	2/6/23 16:13		2	53.5	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/31/23 08:16	1/31/23 08:16			579.15	uS/cm			FA
pH	1/31/23 08:16	1/31/23 08:16			7.97	SU			FA
Temperature	1/31/23 08:16	1/31/23 08:16			17.47	C			FA
Turbidity	1/31/23 08:16	1/31/23 08:16			1.89	NTU			FA
Sulfide	1/31/23 08:16	1/31/23 08:16			1.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/31/23 08:19
Customer ID:
Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BD02445

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 08:19

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BD02445

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02859	Selenium, Dissolved	mg/L	0.0000332	0.00100	0.100	0.0927	0.0911	0.0970	0.0850 to 0.115	92.7	70.0 to 130	1.74	20.0
BD02859	Selenium, Total	mg/L	0.000120	0.00100	0.100	0.0947	0.0969	0.102	0.0850 to 0.115	94.7	70.0 to 130	2.30	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 08:19

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BD02445

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 1/31/23 10:55
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02446

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 12:53		1.015	0.313	mg/L	0.030000	0.1015	
* Calcium, Total	2/3/23 06:10	2/8/23 14:13		10.15	48.0	mg/L	0.70035	4.06	
* Iron, Total	2/3/23 06:10	2/8/23 12:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	2/3/23 06:10	2/8/23 12:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 12:53		1.015	22.4	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 12:53		1	6.14	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 12:53		1.015	2.87	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 12:53		1.015	8.98	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:40		1.015	0.314	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/2/23 12:28	2/8/23 14:15		10.15	43.7	mg/L	0.70035	4.06	
* Iron, Dissolved	2/2/23 12:28	2/8/23 12:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 12:40		1.015	22.1	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:40		1	6.10	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:40		1.015	2.85	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:40		1.015	8.83	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:02		1.015	0.0113	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/3/23 06:10	2/3/23 12:02		1.015	0.000173	mg/L	0.000081	0.000203	J
* Barium, Total	2/3/23 06:10	2/3/23 12:02		1.015	0.0185	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 12:02		1.015	0.000224	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 12:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/3/23 06:10	2/3/23 12:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 12:02		1.015	0.00283	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 12:02		1.015	0.00931	mg/L	0.000102	0.000203	
* Potassium, Total	2/3/23 06:10	2/3/23 12:02		1.015	0.575	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP

Collected: 1/31/23 10:55

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02446

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 12:02		1.015	0.00108	mg/L	0.000508	0.001015	
* Thallium, Total	2/3/23 06:10	2/3/23 12:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	0.000142	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	0.0184	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	0.000224	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	0.00200	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	0.0124	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	0.558	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	0.00150	mg/L	0.000508	0.001015	
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:27	2/2/23 14:27		1	1.15	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	158	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	223	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	158	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 15:06	2/2/23 15:06		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP

Collected: 1/31/23 10:55

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02446

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 11:48	2/2/23 11:48		1	16.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:38	2/3/23 10:38		1	0.0812	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:01	2/6/23 16:01		1	28.5	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/31/23 10:51	1/31/23 10:51			407.06	uS/cm			FA
pH	1/31/23 10:51	1/31/23 10:51			7.19	SU			FA
Temperature	1/31/23 10:51	1/31/23 10:51			19.21	C			FA
Turbidity	1/31/23 10:51	1/31/23 10:51			1.88	NTU			FA
Sulfide	1/31/23 10:51	1/31/23 10:51			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 10:55

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BD02446

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 10:55

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BD02446

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 10:55

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BD02446

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 1/31/23 14:43
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02447

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 12:56		1.015	0.0417	mg/L	0.030000	0.1015	J
* Calcium, Total	2/3/23 06:10	2/8/23 14:17		10.15	85.6	mg/L	0.70035	4.06	
* Iron, Total	2/3/23 06:10	2/8/23 12:56		1.015	0.813	mg/L	0.008120	0.0406	
* Lithium, Total	2/3/23 06:10	2/8/23 12:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 14:17		10.15	45.9	mg/L	0.21315	4.06	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 12:56		1	12.9	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 12:56		1.015	6.04	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 12:56		1.015	28.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:43		1.015	0.0449	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	2/2/23 12:28	2/8/23 14:18		10.15	80.4	mg/L	0.70035	4.06	
* Iron, Dissolved	2/2/23 12:28	2/8/23 12:43		1.015	0.826	mg/L	0.008120	0.0406	
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 12:43		1.015	39.4	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:43		1	12.9	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:43		1.015	6.04	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:43		1.015	27.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:05		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	2/3/23 06:10	2/3/23 12:05		1.015	0.00343	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 12:05		1.015	0.0672	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 12:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/3/23 06:10	2/3/23 12:05		1.015	0.00135	mg/L	0.000068	0.000203	
* Lead, Total	2/3/23 06:10	2/3/23 12:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 12:05		1.015	0.224	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 12:05		1.015	0.00237	mg/L	0.000102	0.000203	
* Potassium, Total	2/3/23 06:10	2/3/23 12:05		1.015	0.746	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 1/31/23 14:43
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02447

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 12:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 12:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	0.00356	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	0.0652	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	0.00130	mg/L	0.000068	0.000203	
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	0.219	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	0.00480	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	0.754	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	0.000826	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:29	2/2/23 14:29		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	334	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	380	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	333	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	0.843	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 15:24	2/2/23 15:24		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWASAP

Collected: 1/31/23 14:43

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02447

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 12:02	2/2/23 12:02		3	33.5	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:39	2/3/23 10:39		1	0.159	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:02	2/6/23 16:02		1	24.4	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	1/31/23 14:40	1/31/23 14:40			758.68	uS/cm			FA
pH	1/31/23 14:40	1/31/23 14:40			7.14	SU			FA
Temperature	1/31/23 14:40	1/31/23 14:40			19.34	C			FA
Turbidity	1/31/23 14:40	1/31/23 14:40			0.7	NTU			FA
Sulfide	1/31/23 14:40	1/31/23 14:40			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/31/23 14:43
Customer ID:
Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BD02447

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/31/23 14:43
Customer ID:
Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BD02447

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 14:43

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BD02447

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 2/1/23 14:49
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02448

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 12:59		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/3/23 06:10	2/8/23 14:20		10.15	44.8	mg/L	0.70035	4.06	
* Iron, Total	2/3/23 06:10	2/8/23 12:59		1.015	0.352	mg/L	0.008120	0.0406	
* Lithium, Total	2/3/23 06:10	2/8/23 12:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 12:59		1.015	22.7	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 12:59		1	8.88	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 12:59		1.015	4.15	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 12:59		1.015	4.48	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:46		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	2/2/23 12:28	2/8/23 14:22		10.15	45.0	mg/L	0.70035	4.06	
* Iron, Dissolved	2/2/23 12:28	2/8/23 12:46		1.015	0.340	mg/L	0.008120	0.0406	
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 12:46		1.015	22.8	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:46		1	8.69	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:46		1.015	4.06	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:46		1.015	4.39	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:09		1.015	0.00818	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/3/23 06:10	2/3/23 12:09		1.015	0.000630	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 12:09		1.015	0.0378	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 12:09		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/3/23 06:10	2/3/23 12:09		1.015	0.000152	mg/L	0.000068	0.000203	J
* Lead, Total	2/3/23 06:10	2/3/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 12:09		1.015	0.109	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 12:09		1.015	0.000341	mg/L	0.000102	0.000203	
* Potassium, Total	2/3/23 06:10	2/3/23 12:09		1.015	0.280	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP

Collected: 2/1/23 14:49

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02448

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 12:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	0.000583	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	0.0392	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	0.000146	mg/L	0.000068	0.000203	J
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	0.104	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	0.000510	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	0.272	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:31	2/2/23 14:31		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	196	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	181	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	194	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	1.49	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 15:41	2/2/23 15:41		1	2.85	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP

Collected: 2/1/23 14:49

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02448

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 11:51	2/2/23 11:51		1	4.54	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:40	2/3/23 10:40		1	0.0758	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:03	2/6/23 16:03		1	0.758	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/1/23 14:46	2/1/23 14:46			371.22	uS/cm			FA
pH	2/1/23 14:46	2/1/23 14:46			7.55	SU			FA
Temperature	2/1/23 14:46	2/1/23 14:46			18.79	C			FA
Turbidity	2/1/23 14:46	2/1/23 14:46			1.43	NTU			FA
Sulfide	2/1/23 14:46	2/1/23 14:46			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 14:49

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BD02448

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 14:49

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BD02448

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 14:49

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BD02448

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 1/31/23 14:45
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02449

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 13:02		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/1/23 11:45	3/1/23 12:27		10.15	66.6	mg/L	0.70035	4.06	C
* Iron, Total	3/1/23 11:45	3/1/23 12:17		1.015	0.649	mg/L	0.008120	0.0406	C
* Lithium, Total	2/3/23 06:10	2/8/23 13:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/1/23 11:45	3/1/23 12:17		1.015	25.3	mg/L	0.021315	0.406	C
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:02		1	10.3	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:02		1.015	4.83	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 13:02		1.015	21.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	3/1/23 08:45	3/1/23 11:51		10.15	110	mg/L	0.70035	4.06	C
* Iron, Dissolved	3/1/23 08:45	3/1/23 11:24		1.015	0.962	mg/L	0.008120	0.0406	C
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:50		1.015	0.00752	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	3/1/23 08:45	3/1/23 11:24		1.015	35.3	mg/L	0.021315	0.406	C
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:50		1	11.7	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:50		1.015	5.48	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:50		1.015	12.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:13		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	2/3/23 06:10	2/3/23 12:13		1.015	0.000621	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 12:13		1.015	0.0670	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 12:13		1.015	0.000209	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 12:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/3/23 06:10	2/3/23 12:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 12:13		1.015	0.0736	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 12:13		1.015	0.000984	mg/L	0.000102	0.000203	
* Potassium, Total	2/3/23 06:10	2/3/23 12:13		1.015	0.554	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.
 Dissolved Calcium matrix spike is invalid due to sample concentration.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP

Collected: 1/31/23 14:45

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02449

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 12:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 12:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	0.000420	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	0.0821	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	0.0787	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	0.00637	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	0.549	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:32	2/2/23 14:32		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	262	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	436	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	261	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	0.891	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 15:57	2/2/23 15:57		1	3.99	mg/L	1.00	2	

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.
 Dissolved Calcium matrix spike is invalid due to sample concentration.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 1/31/23 14:45
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02449

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 11:52	2/2/23 11:52		1	5.23	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:41	2/3/23 10:41		1	0.106	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:14	2/6/23 16:14		6	104	mg/L	3.6	12	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	1/31/23 14:42	1/31/23 14:42			481.63	uS/cm			FA
pH	1/31/23 14:42	1/31/23 14:42			7.62	SU			FA
Temperature	1/31/23 14:42	1/31/23 14:42			19.74	C			FA
Turbidity	1/31/23 14:42	1/31/23 14:42			0.5	NTU			FA
Sulfide	1/31/23 14:42	1/31/23 14:42			0	mg/L			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.
 Dissolved Calcium matrix spike is invalid due to sample concentration.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 14:45

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BD02449

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0	
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0	
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0	
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0	
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0	
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0	
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0	
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0	
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0	
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0	
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0	
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0	
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0	
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0	
BD02449	Calcium, Dissolved	mg/L	0.00893	0.152	5.00	113	109	5.02	4.25 to 5.75	60.0	70.0 to 130	3.60	20.0	
BD02449	Calcium, Total	mg/L	0.0159	0.152	5.00	72.0	70.8	5.00	4.25 to 5.75	108	70.0 to 130	1.68	20.0	
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0	
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0	
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0	
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0	
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0	
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0	
BD02449	Iron, Dissolved	mg/L	-0.000694	0.0176	0.2	1.16	1.16	0.202	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium matrix spike is invalid due to sample concentration.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 14:45

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BD02449

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02449	Iron, Total	mg/L	0.000122	0.0176	0.2	0.844	0.844	0.204	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0
BD02453	Lead, Dissolved	mg/L	0.0000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02449	Magnesium, Dissolved	mg/L	0.000447	0.0462	5.00	40.2	38.8	4.87	4.25 to 5.75	98.0	70.0 to 130	3.54	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02449	Magnesium, Total	mg/L	0.0196	0.0462	5.00	29.9	30.1	4.95	4.25 to 5.75	92.0	70.0 to 130	0.667	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium matrix spike is invalid due to sample concentration.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 14:45

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BD02449

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Rec	Limit	Prec			
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0		
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0		
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0		

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium matrix spike is invalid due to sample concentration.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 14:45

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BD02449

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium matrix spike is invalid due to sample concentration.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP
Collected: 2/1/23 12:00
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02450

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	2/3/23 06:10	2/8/23 13:06		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/3/23 06:10	2/8/23 13:06		1.015	11.7	mg/L	0.070035	0.406	
* Iron, Total	2/3/23 06:10	2/8/23 13:06		1.015	0.0317	mg/L	0.008120	0.0406	J
* Lithium, Total	2/3/23 06:10	2/8/23 13:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 13:06		1.015	7.48	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:06		1	7.77	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:06		1.015	3.63	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 13:06		1.015	3.41	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:53		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	2/2/23 12:28	2/8/23 12:53		1.015	12.8	mg/L	0.070035	0.406	
* Iron, Dissolved	2/2/23 12:28	2/8/23 12:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 12:53		1.015	7.69	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:53		1	7.64	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:53		1.015	3.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:53		1.015	3.17	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	2/3/23 06:10	2/3/23 12:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.0636	mg/L	0.006090	0.05075	
* Arsenic, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.000232	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.0147	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.0000955	mg/L	0.000068	0.000203	J
* Chromium, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.000724	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.000141	mg/L	0.000068	0.000203	J
* Lead, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.0000696	mg/L	0.000068	0.000203	J
* Manganese, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.0345	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 12:16		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	2/3/23 06:10	2/3/23 12:16		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP

Collected: 2/1/23 12:00

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02450

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.000584	mg/L	0.000508	0.001015	J
* Thallium, Total	2/3/23 06:10	2/3/23 12:16		1.015	0.0000833	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	0.0143	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	0.000484	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	0.0115	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	0.00180	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	0.224	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:48		1.015	0.0000687	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:34	2/2/23 14:34		1	0.855	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	60.2	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	66.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	60.1	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 16:11	2/2/23 16:11		1	1.38	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP

Collected: 2/1/23 12:00

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02450

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 11:53	2/2/23 11:53		1	3.75	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:43	2/3/23 10:43		1	0.0603	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:06	2/6/23 16:06		1	2.27	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/1/23 11:56	2/1/23 11:56			125.90	uS/cm			FA
pH	2/1/23 11:56	2/1/23 11:56			6.52	SU			FA
Temperature	2/1/23 11:56	2/1/23 11:56			17.75	C			FA
Turbidity	2/1/23 11:56	2/1/23 11:56			3.79	NTU			FA
Sulfide	2/1/23 11:56	2/1/23 11:56			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 12:00

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BD02450

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 12:00

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BD02450

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02450	Sulfate	mg/L	-0.085	2.0	20.0	20.4	20.9	18.8	18.0 to 22.0	90.6	80.0 to 120	2.42	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 12:00

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BD02450

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42 Dup

Location Code: WMWGASAP
Collected: 2/1/23 12:00
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02451

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 13:09		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/3/23 06:10	2/8/23 13:09		1.015	11.8	mg/L	0.070035	0.406	
* Iron, Total	2/3/23 06:10	2/8/23 13:09		1.015	0.0233	mg/L	0.008120	0.0406	J
* Lithium, Total	2/3/23 06:10	2/8/23 13:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 13:09		1.015	7.55	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:09		1	7.73	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:09		1.015	3.61	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 13:09		1.015	3.45	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 12:56		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	2/2/23 12:28	2/8/23 12:56		1.015	13.0	mg/L	0.070035	0.406	
* Iron, Dissolved	2/2/23 12:28	2/8/23 12:56		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/2/23 12:28	2/8/23 12:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 12:56		1.015	7.80	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 12:56		1	7.64	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 12:56		1.015	3.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 12:56		1.015	3.22	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.0388	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.000177	mg/L	0.000081	0.000203	J
* Barium, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.0152	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.000127	mg/L	0.000068	0.000203	J
* Chromium, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.000619	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.000115	mg/L	0.000068	0.000203	J
* Lead, Total	2/3/23 06:10	2/3/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.0308	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.000124	mg/L	0.000102	0.000203	J
* Potassium, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.227	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42 Dup

Location Code: WMWGASAP
Collected: 2/1/23 12:00
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02451

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 12:20		1.015	0.0000750	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	0.0141	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	0.0000747	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	0.000579	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	0.0116	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	0.000636	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	0.229	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:36	2/2/23 14:36		1	0.846	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	58.4	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	66.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	58.3	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 16:28	2/2/23 16:28		1	1.35	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42 Dup

Location Code: WMWGASAP

Collected: 2/1/23 12:00

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02451

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 11:54	2/2/23 11:54		1	3.68	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:44	2/3/23 10:44		1	0.0622	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:23	2/6/23 16:23		1	2.20	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/1/23 11:56	2/1/23 11:56			125.90	uS/cm			FA
pH	2/1/23 11:56	2/1/23 11:56			6.52	SU			FA
Temperature	2/1/23 11:56	2/1/23 11:56			17.75	C			FA
Turbidity	2/1/23 11:56	2/1/23 11:56			3.79	NTU			FA
Sulfide	2/1/23 11:56	2/1/23 11:56			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 12:00

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-42 Dup

Laboratory ID Number: BD02451

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02451	Chloride	mg/L	-0.00557	1.00	10.0	14.1	14.1	10.1	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02451	Fluoride	mg/L	0.031	0.125	2.50	2.51	2.54	2.54	2.25 to 2.75	97.9	80.0 to 120	1.19	20.0
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 12:00

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-42 Dup

Laboratory ID Number: BD02451

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lead, Total	mg/L	0.000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02451	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100			0.0949	0.0850 to 0.115		70.0 to 130		20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02457	Sulfate	mg/L	0.377	2.0	1000	1360	1370	19.0	18.0 to 22.0	94.4	80.0 to 120	0.733	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9		104	80.0 to 120	1.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 12:00

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-42 Dup

Laboratory ID Number: BD02451

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-3

Location Code: WMWGASAPFB

Collected: 2/1/23 12:45

Customer ID:

Submittal Date: 2/2/23 09:59

Laboratory ID Number: BD02452

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 13:12		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/3/23 06:10	2/8/23 13:12		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	2/3/23 06:10	2/8/23 13:12		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	2/3/23 06:10	2/8/23 13:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 13:12		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:12		1	Not Detected	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:12		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	2/3/23 06:10	2/8/23 13:12		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	2/2/23 14:38	2/2/23 14:38		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-3

Location Code: WMWGASAPFB

Collected: 2/1/23 12:45

Customer ID:

Submittal Date: 2/2/23 09:59

Laboratory ID Number: BD02452

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 16:43	2/2/23 16:43		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 12:12	2/2/23 12:12		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:56	2/3/23 10:56		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:25	2/6/23 16:25		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/1/23 12:45

Customer ID:

Delivery Date: 2/2/23 09:59

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BD02452

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02452	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02452	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0955	0.0974	0.102	0.0850 to 0.115	95.5	70.0 to 130	1.97	20.0
BD02452	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BD02452	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.0924	0.0953	0.0976	0.0850 to 0.115	92.4	70.0 to 130	3.09	20.0
BD02452	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0974	0.0984	0.103	0.0850 to 0.115	97.4	70.0 to 130	1.02	20.0
BD02452	Boron, Total	mg/L	-0.00299	0.0650	1.00	0.990	0.985	0.992	0.850 to 1.15	99.0	70.0 to 130	0.506	20.0
BD02452	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0991	0.0983	0.103	0.0850 to 0.115	99.1	70.0 to 130	0.811	20.0
BD02452	Calcium, Total	mg/L	-0.0102	0.152	5.00	4.47	4.71	4.68	4.25 to 5.75	89.4	70.0 to 130	5.23	20.0
BD02457	Chloride	mg/L	-0.0211	1.00	10.0	26.4	26.4	10.1	9.00 to 11.0	88.0	80.0 to 120	0.00	20.0
BD02452	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0989	0.0983	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD02452	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02457	Fluoride	mg/L	0.0326	0.125	2.50	2.60	2.64	2.58	2.25 to 2.75	101	80.0 to 120	1.53	20.0
BD02452	Iron, Total	mg/L	0.000298	0.0176	0.2	0.196	0.200	0.197	0.170 to 0.230	98.0	70.0 to 130	2.02	20.0
BD02452	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02452	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.219	0.208	0.208	0.170 to 0.230	110	70.0 to 130	5.15	20.0
BD02452	Magnesium, Total	mg/L	0.00107	0.0462	5.00	5.09	5.03	5.02	4.25 to 5.75	102	70.0 to 130	1.19	20.0
BD02452	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02452	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00385	0.00384	0.00391	0.00340 to 0.00460	96.2	70.0 to 130	0.260	20.0
BD02452	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.0970	0.0967	0.104	0.0850 to 0.115	97.0	70.0 to 130	0.310	20.0
BD02452	Potassium, Total	mg/L	0.0115	0.367	10.0	9.87	9.99	10.2	8.50 to 11.5	98.7	70.0 to 130	1.21	20.0
BD02452	Selenium, Total	mg/L	0.000354	0.00100	0.100	0.0979	0.0976	0.103	0.0850 to 0.115	97.9	70.0 to 130	0.307	20.0
BD02452	Silicon, Total	mg/L	0.00113	0.0440	1.00	1.02	1.00	1.01	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD02452	Sodium, Total	mg/L	0.0270	0.0880	5.00	5.40	5.12	5.18	4.25 to 5.75	108	70.0 to 130	5.32	20.0
BD02457	Sulfate	mg/L	0.377	2.0	1000	1360	1370	19.0	18.0 to 22.0	94.4	80.0 to 120	0.733	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/1/23 12:45

Customer ID:

Delivery Date: 2/2/23 09:59

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BD02452

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Limit	Limit	Prec			
BD02452	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.102	0.102	0.107	0.0850 to 0.115		102	70.0 to 130		0.00	20.0
BD02452	Total Organic Carbon	mg/L	0.0192	1.00	10.0	10.4	10.6	26.9			104	80.0 to 120		1.90	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/1/23 12:45

Customer ID:

Delivery Date: 2/2/23 09:59

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BD02452

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02452	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.05	0.093	2.00	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BD02449	Solids, Dissolved	mg/L	2.00	25.0			438	52.0	40.0 to 60.0			0.458	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 2/1/23 13:35
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02453

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 13:28		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/3/23 06:10	2/8/23 13:28		1.015	20.0	mg/L	0.070035	0.406	
* Iron, Total	2/3/23 06:10	2/8/23 13:28		1.015	0.0379	mg/L	0.008120	0.0406	J
* Lithium, Total	2/3/23 06:10	2/8/23 13:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 13:28		1.015	12.1	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:28		1	7.79	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:28		1.015	3.64	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 13:28		1.015	1.04	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 13:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	2/2/23 12:28	2/8/23 13:00		1.015	21.2	mg/L	0.070035	0.406	
* Iron, Dissolved	2/2/23 12:28	2/8/23 13:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/2/23 12:28	2/8/23 13:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 13:00		1.015	12.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	2/2/23 12:28	2/8/23 13:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 13:00		1	7.70	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 13:00		1.015	3.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 13:00		1.015	1.01	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:45		1.015	0.0658	mg/L	0.006090	0.05075	
* Arsenic, Total	2/3/23 06:10	2/3/23 12:45		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	2/3/23 06:10	2/3/23 12:45		1.015	0.00572	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 12:45		1.015	0.000818	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/3/23 06:10	2/3/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 12:45		1.015	0.00451	mg/L	0.000152	0.001015	
* Molybdenum, Total	3/2/23 11:41	3/2/23 15:01		1.015	Not Detected	mg/L	0.000102	0.000203	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.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP

Collected: 2/1/23 13:35

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02453

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	2/3/23 06:10	2/3/23 12:45		1.015	0.188	mg/L	0.169505	0.5075	J
* Selenium, Total	2/3/23 06:10	2/3/23 12:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	0.00529	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	0.000805	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	0.206	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:47	2/2/23 14:47		1	0.711	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	96.0	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	98.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	94.5	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	1.41	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 17:56	2/2/23 17:56		1	1.32	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.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP

Collected: 2/1/23 13:35

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02453

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 12:13	2/2/23 12:13		1	2.05	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:57	2/3/23 10:57		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:26	2/6/23 16:26		1	0.892	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/1/23 13:32	2/1/23 13:32			190.53	uS/cm			FA
pH	2/1/23 13:32	2/1/23 13:32			8.04	SU			FA
Temperature	2/1/23 13:32	2/1/23 13:32			18.16	C			FA
Turbidity	2/1/23 13:32	2/1/23 13:32			2.06	NTU			FA
Sulfide	2/1/23 13:32	2/1/23 13:32			0	mg/L			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.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 13:35

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BD02453

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD02453	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.106	0.106	0.102	0.0850 to 0.115	106	70.0 to 130	0.00	20.0	
BD02457	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.103	0.109	0.102	0.0850 to 0.115	92.8	70.0 to 130	5.66	20.0	
BD02453	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0893	0.0899	0.0904	0.0850 to 0.115	89.3	70.0 to 130	0.670	20.0	
BD02457	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0993	0.101	0.102	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD02453	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0955	0.0959	0.0969	0.0850 to 0.115	95.5	70.0 to 130	0.418	20.0	
BD02457	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0996	0.100	0.103	0.0850 to 0.115	96.4	70.0 to 130	0.401	20.0	
BD02453	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.102	0.102	0.0984	0.0850 to 0.115	96.7	70.0 to 130	0.00	20.0	
BD02457	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.119	0.124	0.0976	0.0850 to 0.115	89.5	70.0 to 130	4.12	20.0	
BD02453	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0995	0.0962	0.0979	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0	
BD02457	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0934	0.0979	0.103	0.0850 to 0.115	93.4	70.0 to 130	4.70	20.0	
BD02453	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	0.988	0.981	0.972	0.850 to 1.15	98.8	70.0 to 130	0.711	20.0	
BD02457	Boron, Total	mg/L	-0.00299	0.0650	1.00	3.87	3.89	0.992	0.850 to 1.15	103	70.0 to 130	0.515	20.0	
BD02453	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0959	0.0987	0.0988	0.0850 to 0.115	95.9	70.0 to 130	2.88	20.0	
BD02457	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0957	0.0985	0.103	0.0850 to 0.115	95.7	70.0 to 130	2.88	20.0	
BD02453	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	26.3	26.1	5.00	4.25 to 5.75	102	70.0 to 130	0.763	20.0	
BD02457	Calcium, Total	mg/L	-0.0102	0.152	5.00	136	135	4.68	4.25 to 5.75	140	70.0 to 130	0.738	20.0	
BD02457	Chloride	mg/L	-0.0211	1.00	10.0	26.4	26.4	10.1	9.00 to 11.0	88.0	80.0 to 120	0.00	20.0	
BD02453	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0983	0.0968	0.0979	0.0850 to 0.115	97.5	70.0 to 130	1.54	20.0	
BD02457	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0928	0.0971	0.101	0.0850 to 0.115	92.8	70.0 to 130	4.53	20.0	
BD02453	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0993	0.0992	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.101	20.0	
BD02457	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0960	0.0990	0.104	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0	
BD02457	Fluoride	mg/L	0.0326	0.125	2.50	2.60	2.64	2.58	2.25 to 2.75	101	80.0 to 120	1.53	20.0	
BD02453	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.202	0.200	0.201	0.170 to 0.230	101	70.0 to 130	0.995	20.0	
BD02457	Iron, Total	mg/L	0.000298	0.0176	0.2	0.488	0.499	0.197	0.170 to 0.230	92.5	70.0 to 130	2.23	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 13:35

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BD02453

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02453	Lead, Dissolved	mg/L	0.0000064	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02457	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.0964	0.0989	0.105	0.0850 to 0.115	96.4	70.0 to 130	2.56	20.0
BD02453	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.200	0.199	0.192	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD02457	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.239	0.241	0.208	0.170 to 0.230	104	70.0 to 130	0.833	20.0
BD02453	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	17.3	17.0	4.93	4.25 to 5.75	104	70.0 to 130	1.75	20.0
BD02457	Magnesium, Total	mg/L	0.00107	0.0462	5.00	74.5	75.2	5.02	4.25 to 5.75	144	70.0 to 130	0.935	20.0
BD02453	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.0987	0.0978	0.0991	0.0850 to 0.115	98.7	70.0 to 130	0.916	20.0
BD02457	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.145	0.151	0.104	0.0850 to 0.115	95.0	70.0 to 130	4.05	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02453	Molybdenum, Dissolved	mg/L	0.000580	0.0100	0.2	0.200	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD02866	Molybdenum, Total	mg/L	0.0000164	0.0002	0.100	0.104	0.104	0.0980	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02453	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	9.61	9.61	9.49	8.50 to 11.5	94.0	70.0 to 130	0.00	20.0
BD02457	Potassium, Total	mg/L	0.0115	0.367	10.0	10.2	10.5	10.2	8.50 to 11.5	96.0	70.0 to 130	2.90	20.0
BD02453	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD02456	Selenium, Total	mg/L	0.000354	0.00100	0.100			0.103	0.0850 to 0.115		70.0 to 130		20.0
BD02453	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	4.61	4.59	1.01	0.850 to 1.15	101	70.0 to 130	0.435	20.0
BD02457	Silicon, Total	mg/L	0.00113	0.0440	1.00	4.99	4.97	1.01	0.850 to 1.15	104	70.0 to 130	0.402	20.0
BD02453	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	6.10	6.04	4.87	4.25 to 5.75	102	70.0 to 130	0.988	20.0
BD02457	Sodium, Total	mg/L	0.0270	0.0880	5.00	27.9	27.9	5.18	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD02457	Sulfate	mg/L	0.377	2.0	1000	1360	1370	19.0	18.0 to 22.0	94.4	80.0 to 120	0.733	20.0
BD02453	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD02457	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.0983	0.101	0.107	0.0850 to 0.115	98.3	70.0 to 130	2.71	20.0
BD02457	Total Organic Carbon	mg/L	-0.0180	1.00	10.0	12.7	12.7	25.5		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 13:35

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BD02453

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02457	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.01	0.067	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD02457	Solids, Dissolved	mg/L	2.00	25.0			756	52.0	40.0 to 60.0			0.528	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP
Collected: 2/1/23 14:40
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02454

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 13:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/3/23 06:10	2/8/23 13:31		1.015	27.2	mg/L	0.070035	0.406	
* Iron, Total	2/3/23 06:10	2/8/23 13:31		1.015	0.0606	mg/L	0.008120	0.0406	
* Lithium, Total	2/3/23 06:10	2/8/23 13:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 13:31		1.015	15.6	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:31		1	6.78	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:31		1.015	3.17	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 13:31		1.015	1.71	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 13:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	2/2/23 12:28	2/8/23 13:17		1.015	27.6	mg/L	0.070035	0.406	
* Iron, Dissolved	2/2/23 12:28	2/8/23 13:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/2/23 12:28	2/8/23 13:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 13:17		1.015	15.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	2/2/23 12:28	2/8/23 13:17		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 13:17		1	6.70	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 13:17		1.015	3.13	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 13:17		1.015	1.73	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:49		1.015	0.0855	mg/L	0.006090	0.05075	
* Arsenic, Total	2/3/23 06:10	2/3/23 12:49		1.015	0.000108	mg/L	0.000081	0.000203	J
* Barium, Total	2/3/23 06:10	2/3/23 12:49		1.015	0.0176	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 12:49		1.015	0.000327	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 12:49		1.015	0.0000733	mg/L	0.000068	0.000203	J
* Lead, Total	2/3/23 06:10	2/3/23 12:49		1.015	0.0000688	mg/L	0.000068	0.000203	J
* Manganese, Total	2/3/23 06:10	2/3/23 12:49		1.015	0.0123	mg/L	0.000152	0.001015	
* Molybdenum, Total	3/2/23 11:41	3/2/23 15:05		1.015	Not Detected	mg/L	0.000102	0.000203	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.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP

Collected: 2/1/23 14:40

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02454

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	2/3/23 06:10	2/3/23 12:49		1.015	0.385	mg/L	0.169505	0.5075	J
* Selenium, Total	2/3/23 06:10	2/3/23 12:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	0.0176	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	0.000174	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	0.392	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:48	2/2/23 14:48		1	0.536	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	124	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	122	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	123	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	0.898	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 18:09	2/2/23 18:09		1	2.02	mg/L	1.00	2	

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.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP

Collected: 2/1/23 14:40

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02454

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 12:15	2/2/23 12:15		1	2.61	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 10:59	2/3/23 10:59		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:27	2/6/23 16:27		1	1.82	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/1/23 14:37	2/1/23 14:37			246.42	uS/cm			FA
pH	2/1/23 14:37	2/1/23 14:37			7.75	SU			FA
Temperature	2/1/23 14:37	2/1/23 14:37			17.28	C			FA
Turbidity	2/1/23 14:37	2/1/23 14:37			2.79	NTU			FA
Sulfide	2/1/23 14:37	2/1/23 14:37			0	mg/L			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.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 14:40

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BD02454

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02457	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.107	0.107	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.00	20.0
BD02457	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.103	0.109	0.102	0.0850 to 0.115	92.8	70.0 to 130	5.66	20.0
BD02457	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0840	0.0793	0.0904	0.0850 to 0.115	84.0	70.0 to 130	5.76	20.0
BD02457	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0993	0.101	0.102	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD02457	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0967	0.0971	0.0969	0.0850 to 0.115	94.6	70.0 to 130	0.413	20.0
BD02457	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0996	0.100	0.103	0.0850 to 0.115	96.4	70.0 to 130	0.401	20.0
BD02457	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.128	0.126	0.0984	0.0850 to 0.115	95.4	70.0 to 130	1.57	20.0
BD02457	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.119	0.124	0.0976	0.0850 to 0.115	89.5	70.0 to 130	4.12	20.0
BD02457	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0975	0.0935	0.0979	0.0850 to 0.115	97.5	70.0 to 130	4.19	20.0
BD02457	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0934	0.0979	0.103	0.0850 to 0.115	93.4	70.0 to 130	4.70	20.0
BD02457	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	3.83	3.77	0.972	0.850 to 1.15	100	70.0 to 130	1.58	20.0
BD02457	Boron, Total	mg/L	-0.00299	0.0650	1.00	3.87	3.89	0.992	0.850 to 1.15	103	70.0 to 130	0.515	20.0
BD02457	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0960	0.0926	0.0988	0.0850 to 0.115	96.0	70.0 to 130	3.61	20.0
BD02457	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0957	0.0985	0.103	0.0850 to 0.115	95.7	70.0 to 130	2.88	20.0
BD02457	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	126	121	5.00	4.25 to 5.75	140	70.0 to 130	4.05	20.0
BD02457	Calcium, Total	mg/L	-0.0102	0.152	5.00	136	135	4.68	4.25 to 5.75	140	70.0 to 130	0.738	20.0
BD02457	Chloride	mg/L	-0.0211	1.00	10.0	26.4	26.4	10.1	9.00 to 11.0	88.0	80.0 to 120	0.00	20.0
BD02457	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0952	0.0946	0.0979	0.0850 to 0.115	95.2	70.0 to 130	0.632	20.0
BD02457	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0928	0.0971	0.101	0.0850 to 0.115	92.8	70.0 to 130	4.53	20.0
BD02457	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0983	0.0980	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD02457	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0960	0.0990	0.104	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BD02457	Fluoride	mg/L	0.0326	0.125	2.50	2.60	2.64	2.58	2.25 to 2.75	101	80.0 to 120	1.53	20.0
BD02457	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.451	0.449	0.201	0.170 to 0.230	99.5	70.0 to 130	0.444	20.0
BD02457	Iron, Total	mg/L	0.000298	0.0176	0.2	0.488	0.499	0.197	0.170 to 0.230	92.5	70.0 to 130	2.23	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 14:40

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BD02454

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02457	Lead, Dissolved	mg/L	0.0000064	0.000147	0.100	0.0994	0.0977	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD02457	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.0964	0.0989	0.105	0.0850 to 0.115	96.4	70.0 to 130	2.56	20.0
BD02457	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.259	0.255	0.192	0.170 to 0.230	113	70.0 to 130	1.56	20.0
BD02457	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.239	0.241	0.208	0.170 to 0.230	104	70.0 to 130	0.833	20.0
BD02457	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	65.5	64.1	4.93	4.25 to 5.75	116	70.0 to 130	2.16	20.0
BD02457	Magnesium, Total	mg/L	0.00107	0.0462	5.00	74.5	75.2	5.02	4.25 to 5.75	144	70.0 to 130	0.935	20.0
BD02457	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.144	0.143	0.0991	0.0850 to 0.115	97.2	70.0 to 130	0.697	20.0
BD02457	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.145	0.151	0.104	0.0850 to 0.115	95.0	70.0 to 130	4.05	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02453	Molybdenum, Dissolved	mg/L	0.000580	0.0100	0.2	0.200	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD02866	Molybdenum, Total	mg/L	0.0000164	0.0002	0.100	0.104	0.104	0.0980	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02457	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	10.0	9.91	9.49	8.50 to 11.5	94.3	70.0 to 130	0.904	20.0
BD02457	Potassium, Total	mg/L	0.0115	0.367	10.0	10.2	10.5	10.2	8.50 to 11.5	96.0	70.0 to 130	2.90	20.0
BD02456	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100			0.0989	0.0850 to 0.115		70.0 to 130		20.0
BD02456	Selenium, Total	mg/L	0.000354	0.00100	0.100			0.103	0.0850 to 0.115		70.0 to 130		20.0
BD02457	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	5.07	5.06	1.01	0.850 to 1.15	103	70.0 to 130	0.197	20.0
BD02457	Silicon, Total	mg/L	0.00113	0.0440	1.00	4.99	4.97	1.01	0.850 to 1.15	104	70.0 to 130	0.402	20.0
BD02457	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	28.0	27.8	4.87	4.25 to 5.75	80.0	70.0 to 130	0.717	20.0
BD02457	Sodium, Total	mg/L	0.0270	0.0880	5.00	27.9	27.9	5.18	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD02457	Sulfate	mg/L	0.377	2.0	1000	1360	1370	19.0	18.0 to 22.0	94.4	80.0 to 120	0.733	20.0
BD02457	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02457	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.0983	0.101	0.107	0.0850 to 0.115	98.3	70.0 to 130	2.71	20.0
BD02457	Total Organic Carbon	mg/L	-0.0180	1.00	10.0	12.7	12.7	25.5		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 14:40

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BD02454

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02457	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.01	0.067	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD02457	Solids, Dissolved	mg/L	2.00	25.0			756	52.0	40.0 to 60.0			0.528	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 2/1/23 15:55
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02455

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/3/23 06:10	2/8/23 13:34		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/3/23 06:10	2/8/23 13:34		1.015	21.2	mg/L	0.070035	0.406	
* Iron, Total	2/3/23 06:10	2/8/23 13:34		1.015	0.0637	mg/L	0.008120	0.0406	
* Lithium, Total	2/3/23 06:10	2/8/23 13:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/3/23 06:10	2/8/23 13:34		1.015	11.9	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:34		1	6.59	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:34		1.015	3.08	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 13:34		1.015	2.48	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	2/2/23 12:28	2/8/23 13:20		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	2/2/23 12:28	2/8/23 13:20		1.015	21.1	mg/L	0.070035	0.406	
* Iron, Dissolved	2/2/23 12:28	2/8/23 13:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/2/23 12:28	2/8/23 13:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 13:20		1.015	11.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	2/2/23 12:28	2/8/23 13:20		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 13:20		1	6.44	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 13:20		1.015	3.01	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 13:20		1.015	2.53	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/3/23 06:10	2/3/23 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 12:52		1.015	0.130	mg/L	0.006090	0.05075	
* Arsenic, Total	2/3/23 06:10	2/3/23 12:52		1.015	0.000112	mg/L	0.000081	0.000203	J
* Barium, Total	2/3/23 06:10	2/3/23 12:52		1.015	0.00956	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 12:52		1.015	0.000410	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/3/23 06:10	2/3/23 12:52		1.015	0.000101	mg/L	0.000068	0.000203	J
* Lead, Total	2/3/23 06:10	2/3/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 12:52		1.015	0.00392	mg/L	0.000152	0.001015	
* Molybdenum, Total	3/2/23 11:41	3/2/23 15:08		1.015	0.000151	mg/L	0.000102	0.000203	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.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 2/1/23 15:55
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02455

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	2/3/23 06:10	2/3/23 12:52		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	2/3/23 06:10	2/3/23 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/3/23 06:10	2/3/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	0.00812	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	0.00928	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	0.000324	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 22:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:49	2/2/23 14:49		1	0.602	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	96.0	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	104	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	94.9	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	1.07	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 18:22	2/2/23 18:22		1	1.43	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.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP

Collected: 2/1/23 15:55

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02455

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 12:16	2/2/23 12:16		1	4.54	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 11:00	2/3/23 11:00		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:28	2/6/23 16:28		1	1.28	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/1/23 15:50	2/1/23 15:50			194.01	uS/cm			FA
pH	2/1/23 15:50	2/1/23 15:50			8.18	SU			FA
Temperature	2/1/23 15:50	2/1/23 15:50			17.49	C			FA
Turbidity	2/1/23 15:50	2/1/23 15:50			4.68	NTU			FA
Sulfide	2/1/23 15:50	2/1/23 15:50			0	mg/L			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.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 15:55

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BD02455

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02457	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.107	0.107	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.00	20.0
BD02457	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.103	0.109	0.102	0.0850 to 0.115	92.8	70.0 to 130	5.66	20.0
BD02457	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0840	0.0793	0.0904	0.0850 to 0.115	84.0	70.0 to 130	5.76	20.0
BD02457	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0993	0.101	0.102	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD02457	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0967	0.0971	0.0969	0.0850 to 0.115	94.6	70.0 to 130	0.413	20.0
BD02457	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0996	0.100	0.103	0.0850 to 0.115	96.4	70.0 to 130	0.401	20.0
BD02457	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.128	0.126	0.0984	0.0850 to 0.115	95.4	70.0 to 130	1.57	20.0
BD02457	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.119	0.124	0.0976	0.0850 to 0.115	89.5	70.0 to 130	4.12	20.0
BD02457	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0975	0.0935	0.0979	0.0850 to 0.115	97.5	70.0 to 130	4.19	20.0
BD02457	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0934	0.0979	0.103	0.0850 to 0.115	93.4	70.0 to 130	4.70	20.0
BD02457	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	3.83	3.77	0.972	0.850 to 1.15	100	70.0 to 130	1.58	20.0
BD02457	Boron, Total	mg/L	-0.00299	0.0650	1.00	3.87	3.89	0.992	0.850 to 1.15	103	70.0 to 130	0.515	20.0
BD02457	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0960	0.0926	0.0988	0.0850 to 0.115	96.0	70.0 to 130	3.61	20.0
BD02457	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0957	0.0985	0.103	0.0850 to 0.115	95.7	70.0 to 130	2.88	20.0
BD02457	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	126	121	5.00	4.25 to 5.75	140	70.0 to 130	4.05	20.0
BD02457	Calcium, Total	mg/L	-0.0102	0.152	5.00	136	135	4.68	4.25 to 5.75	140	70.0 to 130	0.738	20.0
BD02457	Chloride	mg/L	-0.0211	1.00	10.0	26.4	26.4	10.1	9.00 to 11.0	88.0	80.0 to 120	0.00	20.0
BD02457	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0952	0.0946	0.0979	0.0850 to 0.115	95.2	70.0 to 130	0.632	20.0
BD02457	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0928	0.0971	0.101	0.0850 to 0.115	92.8	70.0 to 130	4.53	20.0
BD02457	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0983	0.0980	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD02457	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0960	0.0990	0.104	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BD02457	Fluoride	mg/L	0.0326	0.125	2.50	2.60	2.64	2.58	2.25 to 2.75	101	80.0 to 120	1.53	20.0
BD02457	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.451	0.449	0.201	0.170 to 0.230	99.5	70.0 to 130	0.444	20.0
BD02457	Iron, Total	mg/L	0.000298	0.0176	0.2	0.488	0.499	0.197	0.170 to 0.230	92.5	70.0 to 130	2.23	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 15:55

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BD02455

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02457	Lead, Dissolved	mg/L	0.0000064	0.000147	0.100	0.0994	0.0977	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD02457	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.0964	0.0989	0.105	0.0850 to 0.115	96.4	70.0 to 130	2.56	20.0
BD02457	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.259	0.255	0.192	0.170 to 0.230	113	70.0 to 130	1.56	20.0
BD02457	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.239	0.241	0.208	0.170 to 0.230	104	70.0 to 130	0.833	20.0
BD02457	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	65.5	64.1	4.93	4.25 to 5.75	116	70.0 to 130	2.16	20.0
BD02457	Magnesium, Total	mg/L	0.00107	0.0462	5.00	74.5	75.2	5.02	4.25 to 5.75	144	70.0 to 130	0.935	20.0
BD02457	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.144	0.143	0.0991	0.0850 to 0.115	97.2	70.0 to 130	0.697	20.0
BD02457	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.145	0.151	0.104	0.0850 to 0.115	95.0	70.0 to 130	4.05	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02453	Molybdenum, Dissolved	mg/L	0.000580	0.0100	0.2	0.200	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD02866	Molybdenum, Total	mg/L	0.0000164	0.0002	0.100	0.104	0.104	0.0980	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02457	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	10.0	9.91	9.49	8.50 to 11.5	94.3	70.0 to 130	0.904	20.0
BD02457	Potassium, Total	mg/L	0.0115	0.367	10.0	10.2	10.5	10.2	8.50 to 11.5	96.0	70.0 to 130	2.90	20.0
BD02456	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100			0.0989	0.0850 to 0.115		70.0 to 130		20.0
BD02456	Selenium, Total	mg/L	0.000354	0.00100	0.100			0.103	0.0850 to 0.115		70.0 to 130		20.0
BD02457	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	5.07	5.06	1.01	0.850 to 1.15	103	70.0 to 130	0.197	20.0
BD02457	Silicon, Total	mg/L	0.00113	0.0440	1.00	4.99	4.97	1.01	0.850 to 1.15	104	70.0 to 130	0.402	20.0
BD02457	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	28.0	27.8	4.87	4.25 to 5.75	80.0	70.0 to 130	0.717	20.0
BD02457	Sodium, Total	mg/L	0.0270	0.0880	5.00	27.9	27.9	5.18	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD02457	Sulfate	mg/L	0.377	2.0	1000	1360	1370	19.0	18.0 to 22.0	94.4	80.0 to 120	0.733	20.0
BD02457	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02457	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.0983	0.101	0.107	0.0850 to 0.115	98.3	70.0 to 130	2.71	20.0
BD02457	Total Organic Carbon	mg/L	-0.0180	1.00	10.0	12.7	12.7	25.5		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/1/23 15:55

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BD02455

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02457	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.01	0.067	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD02457	Solids, Dissolved	mg/L	2.00	25.0			756	52.0	40.0 to 60.0			0.528	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Molybdenum was verified by re-analysis.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 1/30/23 12:36
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02456

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	2/3/23 06:10	2/8/23 13:37		1.015	3.49	mg/L	0.030000	0.1015	
* Calcium, Total	2/3/23 06:10	2/8/23 15:05		101.5	374	mg/L	7.0035	40.6	
* Iron, Total	2/3/23 06:10	2/8/23 13:37		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	2/3/23 06:10	2/8/23 13:37		1.015	1.33	mg/L	0.007105	0.01999956	
* Magnesium, Total	2/3/23 06:10	2/8/23 13:37		1.015	13.6	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:37		1	5.56	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:37		1.015	2.60	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 14:26		10.15	56.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	2/2/23 12:28	2/8/23 13:23		1.015	3.37	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/2/23 12:28	2/8/23 14:29		10.15	365	mg/L	0.70035	4.06	
* Iron, Dissolved	2/2/23 12:28	2/8/23 13:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/2/23 12:28	2/8/23 13:23		1.015	1.45	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 13:23		1.015	13.9	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 13:23		1	5.97	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 13:23		1.015	2.79	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 14:29		10.15	47.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.00191	mg/L	0.000508	0.001015	
* Aluminum, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.0562	mg/L	0.006090	0.05075	
* Arsenic, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.00753	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.123	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 12:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.000261	mg/L	0.000068	0.000203	
* Chromium, Total	2/3/23 06:10	2/3/23 12:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/3/23 06:10	2/3/23 12:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.0000701	mg/L	0.000068	0.000203	J
* Manganese, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.0226	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/8/23 10:23		5.075	3.06	mg/L	0.000508	0.001015	
* Potassium, Total	2/3/23 06:10	2/3/23 12:56		1.015	46.1	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP

Collected: 1/30/23 12:36

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02456

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.000590	mg/L	0.000508	0.001015	J
* Thallium, Total	2/3/23 06:10	2/3/23 12:56		1.015	0.000116	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	0.00140	mg/L	0.000508	0.001015	
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	0.0549	mg/L	0.006090	0.05075	
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	0.00756	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	0.132	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	0.000265	mg/L	0.000068	0.000203	
* Chromium, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	0.0231	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/8/23 10:20		5.075	3.03	mg/L	0.000508	0.001015	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	46.3	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 12:23		1.015	0.000106	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:50	2/2/23 14:50		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	56.8	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	1540	mg/L		125	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	50.7	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	5.48	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 18:38	2/2/23 18:38		1	1.11	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP

Collected: 1/30/23 12:36

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02456

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 12:39	2/2/23 12:39		25	436	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 11:01	2/3/23 11:01		1	0.123	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:42	2/6/23 16:42		25	444	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	1/30/23 12:32	1/30/23 12:32			2184.63	uS/cm			FA
pH	1/30/23 12:32	1/30/23 12:32			9.27	SU			FA
Temperature	1/30/23 12:32	1/30/23 12:32			19.70	C			FA
Turbidity	1/30/23 12:32	1/30/23 12:32			1.89	NTU			FA
Sulfide	1/30/23 12:32	1/30/23 12:32			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/30/23 12:36
Customer ID:
Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BD02456

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02457	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.107	0.107	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.00	20.0
BD02457	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.103	0.109	0.102	0.0850 to 0.115	92.8	70.0 to 130	5.66	20.0
BD02457	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0840	0.0793	0.0904	0.0850 to 0.115	84.0	70.0 to 130	5.76	20.0
BD02457	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0993	0.101	0.102	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD02457	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0967	0.0971	0.0969	0.0850 to 0.115	94.6	70.0 to 130	0.413	20.0
BD02457	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0996	0.100	0.103	0.0850 to 0.115	96.4	70.0 to 130	0.401	20.0
BD02457	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.128	0.126	0.0984	0.0850 to 0.115	95.4	70.0 to 130	1.57	20.0
BD02457	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.119	0.124	0.0976	0.0850 to 0.115	89.5	70.0 to 130	4.12	20.0
BD02457	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0975	0.0935	0.0979	0.0850 to 0.115	97.5	70.0 to 130	4.19	20.0
BD02457	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0934	0.0979	0.103	0.0850 to 0.115	93.4	70.0 to 130	4.70	20.0
BD02457	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	3.83	3.77	0.972	0.850 to 1.15	100	70.0 to 130	1.58	20.0
BD02457	Boron, Total	mg/L	-0.00299	0.0650	1.00	3.87	3.89	0.992	0.850 to 1.15	103	70.0 to 130	0.515	20.0
BD02457	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0960	0.0926	0.0988	0.0850 to 0.115	96.0	70.0 to 130	3.61	20.0
BD02457	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0957	0.0985	0.103	0.0850 to 0.115	95.7	70.0 to 130	2.88	20.0
BD02457	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	126	121	5.00	4.25 to 5.75	140	70.0 to 130	4.05	20.0
BD02457	Calcium, Total	mg/L	-0.0102	0.152	5.00	136	135	4.68	4.25 to 5.75	140	70.0 to 130	0.738	20.0
BD02457	Chloride	mg/L	-0.0211	1.00	10.0	26.4	26.4	10.1	9.00 to 11.0	88.0	80.0 to 120	0.00	20.0
BD02457	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0952	0.0946	0.0979	0.0850 to 0.115	95.2	70.0 to 130	0.632	20.0
BD02457	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0928	0.0971	0.101	0.0850 to 0.115	92.8	70.0 to 130	4.53	20.0
BD02457	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0983	0.0980	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD02457	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0960	0.0990	0.104	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BD02457	Fluoride	mg/L	0.0326	0.125	2.50	2.60	2.64	2.58	2.25 to 2.75	101	80.0 to 120	1.53	20.0
BD02457	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.451	0.449	0.201	0.170 to 0.230	99.5	70.0 to 130	0.444	20.0
BD02457	Iron, Total	mg/L	0.000298	0.0176	0.2	0.488	0.499	0.197	0.170 to 0.230	92.5	70.0 to 130	2.23	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/30/23 12:36

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BD02456

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD02457	Lead, Dissolved	mg/L	0.0000064	0.000147	0.100	0.0994	0.0977	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0	
BD02457	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.0964	0.0989	0.105	0.0850 to 0.115	96.4	70.0 to 130	2.56	20.0	
BD02457	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.259	0.255	0.192	0.170 to 0.230	113	70.0 to 130	1.56	20.0	
BD02457	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.239	0.241	0.208	0.170 to 0.230	104	70.0 to 130	0.833	20.0	
BD02457	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	65.5	64.1	4.93	4.25 to 5.75	116	70.0 to 130	2.16	20.0	
BD02457	Magnesium, Total	mg/L	0.00107	0.0462	5.00	74.5	75.2	5.02	4.25 to 5.75	144	70.0 to 130	0.935	20.0	
BD02457	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.144	0.143	0.0991	0.0850 to 0.115	97.2	70.0 to 130	0.697	20.0	
BD02457	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.145	0.151	0.104	0.0850 to 0.115	95.0	70.0 to 130	4.05	20.0	
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0	
BD02457	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100	0.385	0.392	0.0949	0.0850 to 0.115	86.0	70.0 to 130	1.80	20.0	
BD02457	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.419	0.430	0.104	0.0850 to 0.115	92.0	70.0 to 130	2.59	20.0	
BD02457	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	10.0	9.91	9.49	8.50 to 11.5	94.3	70.0 to 130	0.904	20.0	
BD02457	Potassium, Total	mg/L	0.0115	0.367	10.0	10.2	10.5	10.2	8.50 to 11.5	96.0	70.0 to 130	2.90	20.0	
BD02456	Selenium, Dissolved	mg/L	0.0000831	0.00100	0.100			0.0989	0.0850 to 0.115		70.0 to 130		20.0	
BD02456	Selenium, Total	mg/L	0.000354	0.00100	0.100			0.103	0.0850 to 0.115		70.0 to 130		20.0	
BD02457	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	5.07	5.06	1.01	0.850 to 1.15	103	70.0 to 130	0.197	20.0	
BD02457	Silicon, Total	mg/L	0.00113	0.0440	1.00	4.99	4.97	1.01	0.850 to 1.15	104	70.0 to 130	0.402	20.0	
BD02457	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	28.0	27.8	4.87	4.25 to 5.75	80.0	70.0 to 130	0.717	20.0	
BD02457	Sodium, Total	mg/L	0.0270	0.0880	5.00	27.9	27.9	5.18	4.25 to 5.75	100	70.0 to 130	0.00	20.0	
BD02457	Sulfate	mg/L	0.377	2.0	1000	1360	1370	19.0	18.0 to 22.0	94.4	80.0 to 120	0.733	20.0	
BD02457	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0	
BD02457	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.0983	0.101	0.107	0.0850 to 0.115	98.3	70.0 to 130	2.71	20.0	
BD02457	Total Organic Carbon	mg/L	-0.0180	1.00	10.0	12.7	12.7	25.5		103	80.0 to 120	0.00	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/30/23 12:36

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BD02456

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02457	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.01	0.067	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD02457	Solids, Dissolved	mg/L	2.00	25.0			756	52.0	40.0 to 60.0			0.528	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 1/31/23 10:23
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02457

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	2/3/23 06:10	2/8/23 13:40		1.015	2.84	mg/L	0.030000	0.1015	
* Calcium, Total	2/3/23 06:10	2/8/23 14:29		10.15	129	mg/L	0.70035	4.06	RA
* Iron, Total	2/3/23 06:10	2/8/23 13:40		1.015	0.303	mg/L	0.008120	0.0406	
* Lithium, Total	2/3/23 06:10	2/8/23 13:40		1.015	0.0305	mg/L	0.007105	0.01999956	
* Magnesium, Total	2/3/23 06:10	2/8/23 14:29		10.15	67.3	mg/L	0.21315	4.06	RA
* Silica, Total (calc.)	2/3/23 06:10	2/8/23 13:40		1	8.45	mg/L			
* Silicon, Total	2/3/23 06:10	2/8/23 13:40		1.015	3.95	mg/L	0.02030	0.25375	
* Sodium, Total	2/3/23 06:10	2/8/23 13:40		1.015	22.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	2/2/23 12:28	2/8/23 13:27		1.015	2.83	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/2/23 12:28	2/8/23 14:32		10.15	119	mg/L	0.70035	4.06	RA
* Iron, Dissolved	2/2/23 12:28	2/8/23 13:27		1.015	0.252	mg/L	0.008120	0.0406	
* Lithium, Dissolved	2/2/23 12:28	2/8/23 13:27		1.015	0.0323	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	2/2/23 12:28	2/8/23 14:32		10.15	59.7	mg/L	0.21315	4.06	
* Silica, Dissolved (calc.)	2/2/23 12:28	2/8/23 13:27		1	8.65	mg/L			
* Silicon, Dissolved	2/2/23 12:28	2/8/23 13:27		1.015	4.04	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/2/23 12:28	2/8/23 13:27		1.015	24.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	2/3/23 06:10	2/3/23 13:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/3/23 06:10	2/3/23 13:00		1.015	0.0102	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/3/23 06:10	2/3/23 13:00		1.015	0.00321	mg/L	0.000081	0.000203	
* Barium, Total	2/3/23 06:10	2/3/23 13:00		1.015	0.0295	mg/L	0.000508	0.001015	
* Beryllium, Total	2/3/23 06:10	2/3/23 13:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/3/23 06:10	2/3/23 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/3/23 06:10	2/3/23 13:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/3/23 06:10	2/3/23 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/3/23 06:10	2/3/23 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/3/23 06:10	2/3/23 13:00		1.015	0.0500	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/3/23 06:10	2/3/23 13:00		1.015	0.327	mg/L	0.000102	0.000203	
* Potassium, Total	2/3/23 06:10	2/3/23 13:00		1.015	0.599	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 1/31/23 10:23
Customer ID:
Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02457

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/2/23 11:41	3/2/23 13:25		1.015	0.000599	mg/L	0.000508	0.001015	J
* Thallium, Total	2/3/23 06:10	2/3/23 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	0.00875	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	0.00211	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	0.0326	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	0.0468	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	0.299	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	0.568	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/2/23 09:27	3/2/23 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/2/23 12:28	2/3/23 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/2/23 14:50	2/2/23 14:50		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/9/23 13:05	2/9/23 15:10		1	81.7	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/2/23 12:25	2/6/23 10:18		1	760	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	81.1	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	2/9/23 13:05	2/9/23 15:10		1	0.605	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/2/23 18:54	2/2/23 18:54		1	2.42	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP

Collected: 1/31/23 10:23

Customer ID:

Submittal Date: 2/2/23 09:58

Laboratory ID Number: BD02457

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/2/23 12:18	2/2/23 12:18		1	17.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/3/23 11:02	2/3/23 11:02		1	0.0808	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/6/23 16:43	2/6/23 16:43		50	416	mg/L	30.0	100	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	1/31/23 10:19	1/31/23 10:19			1012.97	uS/cm			FA
pH	1/31/23 10:19	1/31/23 10:19			7.85	SU			FA
Temperature	1/31/23 10:19	1/31/23 10:19			18.72	C			FA
Turbidity	1/31/23 10:19	1/31/23 10:19			1.62	NTU			FA
Sulfide	1/31/23 10:19	1/31/23 10:19			1	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 1/31/23 10:23
Customer ID:
Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BD02457

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02457	Aluminum, Dissolved	mg/L	-0.000111	0.0198	0.100	0.107	0.107	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.00	20.0
BD02457	Aluminum, Total	mg/L	0.00124	0.0198	0.100	0.103	0.109	0.102	0.0850 to 0.115	92.8	70.0 to 130	5.66	20.0
BD02457	Antimony, Dissolved	mg/L	0.000323	0.00100	0.100	0.0840	0.0793	0.0904	0.0850 to 0.115	84.0	70.0 to 130	5.76	20.0
BD02457	Antimony, Total	mg/L	0.000440	0.00100	0.100	0.0993	0.101	0.102	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD02457	Arsenic, Dissolved	mg/L	0.0000100	0.000200	0.100	0.0967	0.0971	0.0969	0.0850 to 0.115	94.6	70.0 to 130	0.413	20.0
BD02457	Arsenic, Total	mg/L	0.0000087	0.000200	0.100	0.0996	0.100	0.103	0.0850 to 0.115	96.4	70.0 to 130	0.401	20.0
BD02457	Barium, Dissolved	mg/L	-0.0000211	0.00100	0.100	0.128	0.126	0.0984	0.0850 to 0.115	95.4	70.0 to 130	1.57	20.0
BD02457	Barium, Total	mg/L	-0.0000355	0.00100	0.100	0.119	0.124	0.0976	0.0850 to 0.115	89.5	70.0 to 130	4.12	20.0
BD02457	Beryllium, Dissolved	mg/L	0.0000467	0.000880	0.100	0.0975	0.0935	0.0979	0.0850 to 0.115	97.5	70.0 to 130	4.19	20.0
BD02457	Beryllium, Total	mg/L	0.0000000	0.000880	0.100	0.0934	0.0979	0.103	0.0850 to 0.115	93.4	70.0 to 130	4.70	20.0
BD02457	Boron, Dissolved	mg/L	0.00209	0.0650	1.00	3.83	3.77	0.972	0.850 to 1.15	100	70.0 to 130	1.58	20.0
BD02457	Boron, Total	mg/L	-0.00299	0.0650	1.00	3.87	3.89	0.992	0.850 to 1.15	103	70.0 to 130	0.515	20.0
BD02457	Cadmium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.0960	0.0926	0.0988	0.0850 to 0.115	96.0	70.0 to 130	3.61	20.0
BD02457	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0957	0.0985	0.103	0.0850 to 0.115	95.7	70.0 to 130	2.88	20.0
BD02457	Calcium, Dissolved	mg/L	-0.00398	0.152	5.00	126	121	5.00	4.25 to 5.75	140	70.0 to 130	4.05	20.0
BD02457	Calcium, Total	mg/L	-0.0102	0.152	5.00	136	135	4.68	4.25 to 5.75	140	70.0 to 130	0.738	20.0
BD02457	Chloride	mg/L	-0.0211	1.00	10.0	26.4	26.4	10.1	9.00 to 11.0	88.0	80.0 to 120	0.00	20.0
BD02457	Chromium, Dissolved	mg/L	-0.0000164	0.000440	0.100	0.0952	0.0946	0.0979	0.0850 to 0.115	95.2	70.0 to 130	0.632	20.0
BD02457	Chromium, Total	mg/L	0.0000533	0.000440	0.100	0.0928	0.0971	0.101	0.0850 to 0.115	92.8	70.0 to 130	4.53	20.0
BD02457	Cobalt, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0983	0.0980	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD02457	Cobalt, Total	mg/L	0.0000002	0.000147	0.100	0.0960	0.0990	0.104	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BD02457	Fluoride	mg/L	0.0326	0.125	2.50	2.60	2.64	2.58	2.25 to 2.75	101	80.0 to 120	1.53	20.0
BD02457	Iron, Dissolved	mg/L	5.940E-05	0.0176	0.2	0.451	0.449	0.201	0.170 to 0.230	99.5	70.0 to 130	0.444	20.0
BD02457	Iron, Total	mg/L	0.000298	0.0176	0.2	0.488	0.499	0.197	0.170 to 0.230	92.5	70.0 to 130	2.23	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 10:23

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BD02457

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02457	Lead, Dissolved	mg/L	0.0000064	0.000147	0.100	0.0994	0.0977	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.73	20.0
BD02457	Lead, Total	mg/L	0.0000051	0.000147	0.100	0.0964	0.0989	0.105	0.0850 to 0.115	96.4	70.0 to 130	2.56	20.0
BD02457	Lithium, Dissolved	mg/L	1.930E-05	0.0154	0.200	0.259	0.255	0.192	0.170 to 0.230	113	70.0 to 130	1.56	20.0
BD02457	Lithium, Total	mg/L	-0.000054	0.0154	0.200	0.239	0.241	0.208	0.170 to 0.230	104	70.0 to 130	0.833	20.0
BD02457	Magnesium, Dissolved	mg/L	0.00127	0.0462	5.00	65.5	64.1	4.93	4.25 to 5.75	116	70.0 to 130	2.16	20.0
BD02457	Magnesium, Total	mg/L	0.00107	0.0462	5.00	74.5	75.2	5.02	4.25 to 5.75	144	70.0 to 130	0.935	20.0
BD02457	Manganese, Dissolved	mg/L	0.0000007	0.00033	0.100	0.144	0.143	0.0991	0.0850 to 0.115	97.2	70.0 to 130	0.697	20.0
BD02457	Manganese, Total	mg/L	0.0000280	0.00033	0.100	0.145	0.151	0.104	0.0850 to 0.115	95.0	70.0 to 130	4.05	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02457	Molybdenum, Dissolved	mg/L	0.0000047	0.0002	0.100	0.385	0.392	0.0949	0.0850 to 0.115	86.0	70.0 to 130	1.80	20.0
BD02457	Molybdenum, Total	mg/L	0.0000089	0.0002	0.100	0.419	0.430	0.104	0.0850 to 0.115	92.0	70.0 to 130	2.59	20.0
BD02457	Potassium, Dissolved	mg/L	0.0131	0.367	10.0	10.0	9.91	9.49	8.50 to 11.5	94.3	70.0 to 130	0.904	20.0
BD02457	Potassium, Total	mg/L	0.0115	0.367	10.0	10.2	10.5	10.2	8.50 to 11.5	96.0	70.0 to 130	2.90	20.0
BD02859	Selenium, Dissolved	mg/L	0.0000332	0.00100	0.100	0.0927	0.0911	0.0970	0.0850 to 0.115	92.7	70.0 to 130	1.74	20.0
BD02859	Selenium, Total	mg/L	0.000120	0.00100	0.100	0.0947	0.0969	0.102	0.0850 to 0.115	94.7	70.0 to 130	2.30	20.0
BD02457	Silicon, Dissolved	mg/L	-0.00135	0.0440	1.00	5.07	5.06	1.01	0.850 to 1.15	103	70.0 to 130	0.197	20.0
BD02457	Silicon, Total	mg/L	0.00113	0.0440	1.00	4.99	4.97	1.01	0.850 to 1.15	104	70.0 to 130	0.402	20.0
BD02457	Sodium, Dissolved	mg/L	0.000786	0.0880	5.00	28.0	27.8	4.87	4.25 to 5.75	80.0	70.0 to 130	0.717	20.0
BD02457	Sodium, Total	mg/L	0.0270	0.0880	5.00	27.9	27.9	5.18	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD02457	Sulfate	mg/L	0.377	2.0	1000	1360	1370	19.0	18.0 to 22.0	94.4	80.0 to 120	0.733	20.0
BD02457	Thallium, Dissolved	mg/L	0.0000042	0.000147	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02457	Thallium, Total	mg/L	0.0000158	0.000147	0.100	0.0983	0.101	0.107	0.0850 to 0.115	98.3	70.0 to 130	2.71	20.0
BD02457	Total Organic Carbon	mg/L	-0.0180	1.00	10.0	12.7	12.7	25.5		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 1/31/23 10:23

Customer ID:

Delivery Date: 2/2/23 09:58

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BD02457

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD02457	Alkalinity to pH 4.5	mg CaCO3/L					83.8	49.8	45.0 to 55.0			2.54	10.0
BD02457	Nitrogen, Nitrate/Nitrite	mg/L as N	0.06	0.200	2.00	2.01	0.067	1.96	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD02457	Solids, Dissolved	mg/L	2.00	25.0			756	52.0	40.0 to 60.0			0.528	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 2/6/23 11:55
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02851

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 13:34		1.015	0.412	mg/L	0.030000	0.1015	
* Calcium, Total	2/9/23 06:20	2/9/23 15:00		10.15	56.7	mg/L	0.70035	4.06	
* Iron, Total	2/9/23 06:20	2/9/23 13:34		1.015	0.156	mg/L	0.008120	0.0406	
* Lithium, Total	2/9/23 06:20	2/9/23 13:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 13:34		1.015	18.6	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:34		1	8.35	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 13:34		1.015	3.90	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 13:34		1.015	5.98	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:12		1.015	0.412	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 12:40		10.15	45.4	mg/L	0.70035	4.06	
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:12		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:12		1.015	19.1	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:12		1	7.75	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:12		1.015	3.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:12		1.015	6.12	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 11:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 11:28		1.015	0.217	mg/L	0.006090	0.05075	
* Arsenic, Total	2/9/23 06:20	2/9/23 11:28		1.015	0.000340	mg/L	0.000081	0.000203	
* Barium, Total	2/9/23 06:20	2/9/23 11:28		1.015	0.0204	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 11:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 11:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 11:28		1.015	0.000449	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/9/23 06:20	2/9/23 11:28		1.015	0.000209	mg/L	0.000068	0.000203	
* Lead, Total	2/9/23 06:20	2/9/23 11:28		1.015	0.000353	mg/L	0.000068	0.000203	
* Manganese, Total	2/9/23 06:20	2/9/23 11:28		1.015	0.00667	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:28		1.015	0.0299	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 11:28		1.015	1.78	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 2/6/23 11:55
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02851

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 11:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	0.0000975	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	0.0178	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	0.0295	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	1.91	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 13:54	2/8/23 13:54		1	0.994	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	160	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	222	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	159	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.06	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 13:50	2/8/23 13:50		1	2.76	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP

Collected: 2/6/23 11:55

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02851

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:09	2/9/23 11:09		1	9.05	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:00	2/9/23 13:00		1	0.0991	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:24	2/8/23 12:24		1	21.5	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/6/23 11:52	2/6/23 11:52			362.25	uS/cm			FA
pH	2/6/23 11:52	2/6/23 11:52			7.52	SU			FA
Temperature	2/6/23 11:52	2/6/23 11:52			19.65	C			FA
Turbidity	2/6/23 11:52	2/6/23 11:52			9.07	NTU			FA
Sulfide	2/6/23 11:52	2/6/23 11:52			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:55

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BD02851

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:55

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BD02851

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02861	Lead, Total	mg/L	0.000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02863	Manganese, Dissolved	mg/L	0.000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02861	Manganese, Total	mg/L	0.000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:55

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BD02851

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02857	Solids, Dissolved	mg/L	1.00	25.0			373	50.0	40.0 to 60.0			0.268	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5 Dup

Location Code: WMWGASAP
Collected: 2/6/23 11:55
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	2/9/23 06:20	2/9/23 13:37		1.015	0.415	mg/L	0.030000	0.1015	
* Calcium, Total	2/9/23 06:20	2/9/23 15:03		10.15	49.2	mg/L	0.70035	4.06	
* Iron, Total	2/9/23 06:20	2/9/23 13:37		1.015	0.142	mg/L	0.008120	0.0406	
* Lithium, Total	2/9/23 06:20	2/9/23 13:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 13:37		1.015	18.9	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:37		1	8.37	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 13:37		1.015	3.91	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 13:37		1.015	6.16	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:15		1.015	0.413	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 12:43		10.15	45.2	mg/L	0.70035	4.06	
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:15		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:15		1.015	18.7	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:15		1	7.70	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:15		1.015	3.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:15		1.015	6.04	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	2/9/23 06:20	2/9/23 11:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 11:31		1.015	0.205	mg/L	0.006090	0.05075	
* Arsenic, Total	2/9/23 06:20	2/9/23 11:31		1.015	0.000288	mg/L	0.000081	0.000203	
* Barium, Total	2/9/23 06:20	2/9/23 11:31		1.015	0.0206	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 11:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 11:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 11:31		1.015	0.000344	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/9/23 06:20	2/9/23 11:31		1.015	0.000212	mg/L	0.000068	0.000203	
* Lead, Total	2/9/23 06:20	2/9/23 11:31		1.015	0.000346	mg/L	0.000068	0.000203	
* Manganese, Total	2/9/23 06:20	2/9/23 11:31		1.015	0.00806	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:31		1.015	0.0287	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 11:31		1.015	1.91	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5 Dup

Location Code: WMWGASAP
Collected: 2/6/23 11:55
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 11:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	0.000130	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	0.0178	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	0.0296	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	1.88	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 13:56	2/8/23 13:56		1	0.987	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	166	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	219	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	165	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.41	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 14:06	2/8/23 14:06		1	2.87	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5 Dup

Location Code: WMWGASAP

Collected: 2/6/23 11:55

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:10	2/9/23 11:10		1	9.05	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:02	2/9/23 13:02		1	0.0636	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:26	2/8/23 12:26		1	21.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/6/23 11:52	2/6/23 11:52			362.25	uS/cm			FA
pH	2/6/23 11:52	2/6/23 11:52			7.52	SU			FA
Temperature	2/6/23 11:52	2/6/23 11:52			19.65	C			FA
Turbidity	2/6/23 11:52	2/6/23 11:52			9.07	NTU			FA
Sulfide	2/6/23 11:52	2/6/23 11:52			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:55

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-5 Dup

Laboratory ID Number: BD02852

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:55

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-5 Dup

Laboratory ID Number: BD02852

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02861	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02863	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02861	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:55

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-5 Dup

Laboratory ID Number: BD02852

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02857	Solids, Dissolved	mg/L	1.00	25.0			373	50.0	40.0 to 60.0			0.268	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 2/6/23 12:54
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02853

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 13:40		1.015	0.950	mg/L	0.030000	0.1015	
* Calcium, Total	2/9/23 06:20	2/9/23 15:06		10.15	69.4	mg/L	0.70035	4.06	
* Iron, Total	2/9/23 06:20	2/9/23 13:40		1.015	0.0155	mg/L	0.008120	0.0406	J
* Lithium, Total	2/9/23 06:20	2/9/23 13:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 13:40		1.015	22.1	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:40		1	6.53	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 13:40		1.015	3.05	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 13:40		1.015	10.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:18		1.015	0.932	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 12:46		10.15	61.9	mg/L	0.70035	4.06	
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:18		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:18		1.015	22.2	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:18		1	6.42	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:18		1.015	3.00	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:18		1.015	10.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 11:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 11:35		1.015	0.0106	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/9/23 06:20	2/9/23 11:35		1.015	0.000115	mg/L	0.000081	0.000203	J
* Barium, Total	2/9/23 06:20	2/9/23 11:35		1.015	0.0256	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 11:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 11:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 11:35		1.015	0.000237	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/9/23 06:20	2/9/23 11:35		1.015	0.000147	mg/L	0.000068	0.000203	J
* Lead, Total	2/9/23 06:20	2/9/23 11:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 11:35		1.015	0.0602	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:35		1.015	0.0331	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 11:35		1.015	2.02	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP

Collected: 2/6/23 12:54

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02853

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 11:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	0.0205	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	0.0322	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	2.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 13:58	2/8/23 13:58		1	0.867	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	168	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	302	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	167	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.27	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 14:21	2/8/23 14:21		1	3.16	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP

Collected: 2/6/23 12:54

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02853

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:11	2/9/23 11:11		1	13.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:03	2/9/23 13:03		1	0.0686	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:38	2/8/23 12:38		3	67.2	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/6/23 12:51	2/6/23 12:51			480.24	uS/cm			FA
pH	2/6/23 12:51	2/6/23 12:51			6.88	SU			FA
Temperature	2/6/23 12:51	2/6/23 12:51			19.25	C			FA
Turbidity	2/6/23 12:51	2/6/23 12:51			0.5	NTU			FA
Sulfide	2/6/23 12:51	2/6/23 12:51			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 12:54

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BD02853

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 12:54

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BD02853

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02861	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02863	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02861	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 12:54

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BD02853

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02857	Solids, Dissolved	mg/L	1.00	25.0			373	50.0	40.0 to 60.0			0.268	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 2/6/23 13:39
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02854

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	2/9/23 06:20	2/9/23 13:44		1.015	1.46	mg/L	0.030000	0.1015		
* Calcium, Total	2/9/23 06:20	2/9/23 15:10		10.15	83.3	mg/L	0.70035	4.06		
* Iron, Total	2/9/23 06:20	2/9/23 13:44		1.015	0.367	mg/L	0.008120	0.0406		
* Lithium, Total	2/9/23 06:20	2/9/23 13:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	2/9/23 06:20	2/9/23 13:44		1.015	25.7	mg/L	0.021315	0.406		
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:44		1	6.18	mg/L				
* Silicon, Total	2/9/23 06:20	2/9/23 13:44		1.015	2.89	mg/L	0.02030	0.25375		
* Sodium, Total	2/9/23 06:20	2/9/23 13:44		1.015	16.9	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:21		1.015	1.44	mg/L	0.030000	0.1015		
* Calcium, Dissolved	2/8/23 13:51	2/9/23 12:49		10.15	70.9	mg/L	0.70035	4.06		
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:21		1.015	0.279	mg/L	0.008120	0.0406		
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:21		1.015	25.8	mg/L	0.021315	0.406		
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:21		1	6.12	mg/L				
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:21		1.015	2.86	mg/L	0.02030	0.25375		
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:21		1.015	17.4	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	2/9/23 06:20	2/9/23 11:39		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	2/9/23 06:20	2/9/23 11:39		1.015	0.00728	mg/L	0.006090	0.05075	J	
* Arsenic, Total	2/9/23 06:20	2/9/23 11:39		1.015	0.000813	mg/L	0.000081	0.000203		
* Barium, Total	2/9/23 06:20	2/9/23 11:39		1.015	0.0403	mg/L	0.000508	0.001015		
* Beryllium, Total	2/9/23 06:20	2/9/23 11:39		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	2/9/23 06:20	2/9/23 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	2/9/23 06:20	2/9/23 11:39		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	2/9/23 06:20	2/9/23 11:39		1.015	0.000721	mg/L	0.000068	0.000203		
* Lead, Total	2/9/23 06:20	2/9/23 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	2/9/23 06:20	2/9/23 11:39		1.015	0.155	mg/L	0.000152	0.001015		
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:39		1.015	0.0120	mg/L	0.000102	0.000203		
* Potassium, Total	2/9/23 06:20	2/9/23 11:39		1.015	2.54	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 2/6/23 13:39
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02854

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 11:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	0.000621	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	0.0358	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	0.000526	mg/L	0.000068	0.000203	
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	0.143	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	0.0135	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	2.59	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:00	2/8/23 14:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	165	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	376	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	164	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.07	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 14:37	2/8/23 14:37		1	2.78	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP

Collected: 2/6/23 13:39

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02854

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:23	2/9/23 11:23		2	25.7	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:04	2/9/23 13:04		1	0.0676	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:39	2/8/23 12:39		6	113	mg/L	3.6	12	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/6/23 13:36	2/6/23 13:36			584.18	uS/cm			FA
pH	2/6/23 13:36	2/6/23 13:36			7.12	SU			FA
Temperature	2/6/23 13:36	2/6/23 13:36			18.80	C			FA
Turbidity	2/6/23 13:36	2/6/23 13:36			1.78	NTU			FA
Sulfide	2/6/23 13:36	2/6/23 13:36			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 13:39

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BD02854

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 13:39

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BD02854

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02861	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02863	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02861	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 13:39

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BD02854

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02857	Solids, Dissolved	mg/L	1.00	25.0			373	50.0	40.0 to 60.0			0.268	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 2/6/23 14:40
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02855

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 13:47		1.015	1.62	mg/L	0.030000	0.1015	
* Calcium, Total	2/9/23 06:20	2/9/23 15:13		10.15	81.5	mg/L	0.70035	4.06	
* Iron, Total	2/9/23 06:20	2/9/23 13:47		1.015	0.0197	mg/L	0.008120	0.0406	J
* Lithium, Total	2/9/23 06:20	2/9/23 13:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 13:47		1.015	24.9	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:47		1	6.63	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 13:47		1.015	3.10	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 13:47		1.015	15.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:24		1.015	1.58	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 12:52		10.15	71.6	mg/L	0.70035	4.06	
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:24		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:24		1.015	25.3	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:24		1	6.38	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:24		1.015	2.98	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:24		1.015	15.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 11:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 11:42		1.015	0.0266	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/9/23 06:20	2/9/23 11:42		1.015	0.000114	mg/L	0.000081	0.000203	J
* Barium, Total	2/9/23 06:20	2/9/23 11:42		1.015	0.0200	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 11:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 11:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/9/23 06:20	2/9/23 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 11:42		1.015	0.00365	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:42		1.015	0.00638	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 11:42		1.015	2.38	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 2/6/23 14:40
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02855

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 11:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	0.0181	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	0.00160	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	0.00652	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	2.46	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:02	2/8/23 14:02		1	1.49	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	157	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	374	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	156	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.22	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 14:52	2/8/23 14:52		1	2.61	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP

Collected: 2/6/23 14:40

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02855

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:24	2/9/23 11:24		2	21.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:05	2/9/23 13:05		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:40	2/8/23 12:40		6	103	mg/L	3.6	12	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/6/23 14:37	2/6/23 14:37			562.05	uS/cm			FA
pH	2/6/23 14:37	2/6/23 14:37			7.43	SU			FA
Temperature	2/6/23 14:37	2/6/23 14:37			19.28	C			FA
Turbidity	2/6/23 14:37	2/6/23 14:37			1.26	NTU			FA
Sulfide	2/6/23 14:37	2/6/23 14:37			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 2/6/23 14:40
Customer ID:
Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BD02855

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 14:40

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BD02855

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02861	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02863	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02861	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02855	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00384	0.00389	0.00391	0.00340 to 0.00460	96.0	70.0 to 130	1.29	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 14:40

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BD02855

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02857	Solids, Dissolved	mg/L	1.00	25.0			373	50.0	40.0 to 60.0			0.268	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-4

Location Code: WMWGASAPFB
Collected: 2/6/23 15:00
Customer ID:
Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02856

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 13:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/9/23 06:20	2/9/23 13:50		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	2/9/23 06:20	2/9/23 13:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	2/9/23 06:20	2/9/23 13:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 13:50		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:50		1	Not Detected	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 13:50		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	2/9/23 06:20	2/9/23 13:50		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:03	2/8/23 14:03		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-4

Location Code: WMWGASAPFB

Collected: 2/6/23 15:00

Customer ID:

Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02856

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 15:07	2/8/23 15:07		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:15	2/9/23 11:15		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:07	2/9/23 13:07		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:30	2/8/23 12:30		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/6/23 15:00

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BD02856

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0
BD02861	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02861	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/6/23 15:00

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BD02856

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115		102	70.0 to 130		0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9			98.9	80.0 to 120		8.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/6/23 15:00

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BD02856

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02857	Solids, Dissolved	mg/L	1.00	25.0			373	50.0	40.0 to 60.0			0.268	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 2/7/23 09:33
Customer ID:
Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02857

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 13:53		1.015	0.458	mg/L	0.030000	0.1015	
* Calcium, Total	2/9/23 06:20	2/9/23 15:16		10.15	54.9	mg/L	0.70035	4.06	
* Iron, Total	2/9/23 06:20	2/9/23 13:53		1.015	0.0492	mg/L	0.008120	0.0406	
* Lithium, Total	2/9/23 06:20	2/9/23 13:53		1.015	0.0604	mg/L	0.007105	0.01999956	
* Magnesium, Total	2/9/23 06:20	2/9/23 13:53		1.015	20.7	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:53		1	10.7	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 13:53		1.015	5.01	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 13:53		1.015	34.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:27		1.015	0.465	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 12:55		10.15	50.1	mg/L	0.70035	4.06	
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:27		1.015	0.0542	mg/L	0.008120	0.0406	
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:27		1.015	0.0614	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:27		1.015	20.4	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:27		1	10.1	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:27		1.015	4.74	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:27		1.015	32.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 11:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 11:49		1.015	0.0110	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/9/23 06:20	2/9/23 11:49		1.015	0.00472	mg/L	0.000081	0.000203	
* Barium, Total	2/9/23 06:20	2/9/23 11:49		1.015	0.0527	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 11:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 11:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 11:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/9/23 06:20	2/9/23 11:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 11:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 11:49		1.015	0.0958	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:49		1.015	0.145	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 11:49		1.015	3.32	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP

Collected: 2/7/23 09:33

Customer ID:

Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02857

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 11:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	0.0117	mg/L	0.006090	0.05075	J
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	0.00448	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	0.0464	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	0.0827	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	0.171	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	3.17	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/8/23 23:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:05	2/8/23 14:05		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	125	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	374	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	124	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	0.992	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 15:23	2/8/23 15:23		1	3.05	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 2/7/23 09:33
Customer ID:
Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02857

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:25	2/9/23 11:25		2	26.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:08	2/9/23 13:08		1	0.140	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:41	2/8/23 12:41		8	137	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/7/23 09:29	2/7/23 09:29			641.08	uS/cm			FA
pH	2/7/23 09:29	2/7/23 09:29			7.42	SU			FA
Temperature	2/7/23 09:29	2/7/23 09:29			19.79	C			FA
Turbidity	2/7/23 09:29	2/7/23 09:29			0.48	NTU			FA
Sulfide	2/7/23 09:29	2/7/23 09:29			1.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 2/7/23 09:33
Customer ID:
Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BD02857

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 09:33

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BD02857

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02861	Lead, Total	mg/L	0.000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02863	Manganese, Dissolved	mg/L	0.000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02861	Manganese, Total	mg/L	0.000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 09:33

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BD02857

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02857	Solids, Dissolved	mg/L	1.00	25.0			373	50.0	40.0 to 60.0			0.268	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP

Collected: 2/7/23 11:30

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02858

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:07	2/8/23 14:07		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 15:41	2/8/23 15:41		1	1.07	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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 11:30

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BD02858

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 11:30

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BD02858

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Limit	Prec	Limit
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 2/7/23 12:20
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02859

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 13:56		1.015	0.201	mg/L	0.030000	0.1015	
* Calcium, Total	2/9/23 06:20	2/9/23 13:56		1.015	34.6	mg/L	0.070035	0.406	
* Iron, Total	2/9/23 06:20	2/9/23 13:56		1.015	0.0524	mg/L	0.008120	0.0406	
* Lithium, Total	2/9/23 06:20	2/9/23 13:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 13:56		1.015	23.1	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:56		1	14.9	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 13:56		1.015	6.95	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 13:56		1.015	33.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:30		1.015	0.202	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 11:30		1.015	34.7	mg/L	0.070035	0.406	
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:30		1.015	0.0286	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:30		1.015	22.6	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:30		1	15.2	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:30		1.015	7.09	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:30		1.015	32.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 11:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 11:53		1.015	0.0132	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/9/23 06:20	2/9/23 11:53		1.015	0.00301	mg/L	0.000081	0.000203	
* Barium, Total	2/9/23 06:20	2/9/23 11:53		1.015	0.0154	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 11:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 11:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 11:53		1.015	0.000235	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/9/23 06:20	2/9/23 11:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 11:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 11:53		1.015	0.0608	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:53		1.015	0.0117	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 11:53		1.015	0.890	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 2/7/23 12:20
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02859

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/2/23 11:41	3/2/23 13:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	0.00284	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	0.0144	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	0.0582	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	0.0116	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	0.904	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/2/23 09:27	3/2/23 13:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:09	2/8/23 14:09		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	205	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	275	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	201	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	4.04	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 15:54	2/8/23 15:54		1	3.72	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP

Collected: 2/7/23 12:20

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02859

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:17	2/9/23 11:17		1	7.65	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:09	2/9/23 13:09		1	0.138	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:33	2/8/23 12:33		1	38.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/7/23 12:17	2/7/23 12:17			458.27	uS/cm			FA
pH	2/7/23 12:17	2/7/23 12:17			8.17	SU			FA
Temperature	2/7/23 12:17	2/7/23 12:17			18.99	C			FA
Turbidity	2/7/23 12:17	2/7/23 12:17			0.37	NTU			FA
Sulfide	2/7/23 12:17	2/7/23 12:17			1.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 12:20

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BD02859

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0	
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0	
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0	
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0	
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0	
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0	
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0	
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0	
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0	
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0	
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0	
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0	
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0	
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0	
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0	
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0	
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0	
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0	
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0	
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0	
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0	
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0	
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 12:20

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BD02859

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02861	Lead, Total	mg/L	0.000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02863	Manganese, Dissolved	mg/L	0.000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02861	Manganese, Total	mg/L	0.000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02859	Selenium, Dissolved	mg/L	0.0000332	0.00100	0.100	0.0927	0.0911	0.0970	0.0850 to 0.115	92.7	70.0 to 130	1.74	20.0
BD02859	Selenium, Total	mg/L	0.000120	0.00100	0.100	0.0947	0.0969	0.102	0.0850 to 0.115	94.7	70.0 to 130	2.30	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 12:20

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BD02859

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 2/7/23 14:12
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02860

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	2/9/23 06:20	2/9/23 13:59		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	2/9/23 06:20	2/9/23 13:59		1.015	35.2	mg/L	0.070035	0.406		
* Iron, Total	2/9/23 06:20	2/9/23 13:59		1.015	0.314	mg/L	0.008120	0.0406		
* Lithium, Total	2/9/23 06:20	2/9/23 13:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	2/9/23 06:20	2/9/23 13:59		1.015	6.28	mg/L	0.021315	0.406		
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 13:59		1	11.4	mg/L				
* Silicon, Total	2/9/23 06:20	2/9/23 13:59		1.015	5.34	mg/L	0.02030	0.25375		
* Sodium, Total	2/9/23 06:20	2/9/23 13:59		1.015	4.02	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:34		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 11:34		1.015	35.1	mg/L	0.070035	0.406		
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:34		1.015	0.301	mg/L	0.008120	0.0406		
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:34		1.015	6.36	mg/L	0.021315	0.406		
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:34		1	11.2	mg/L				
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:34		1.015	5.25	mg/L	0.02030	0.25375		
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:34		1.015	4.08	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	2/9/23 06:20	2/9/23 11:57		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	2/9/23 06:20	2/9/23 11:57		1.015	0.0109	mg/L	0.006090	0.05075	J	
* Arsenic, Total	2/9/23 06:20	2/9/23 11:57		1.015	0.000203	mg/L	0.000081	0.000203		
* Barium, Total	2/9/23 06:20	2/9/23 11:57		1.015	0.0287	mg/L	0.000508	0.001015		
* Beryllium, Total	2/9/23 06:20	2/9/23 11:57		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	2/9/23 06:20	2/9/23 11:57		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	2/9/23 06:20	2/9/23 11:57		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	2/9/23 06:20	2/9/23 11:57		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	2/9/23 06:20	2/9/23 11:57		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	2/9/23 06:20	2/9/23 11:57		1.015	0.0524	mg/L	0.000152	0.001015		
* Molybdenum, Total	2/9/23 06:20	2/9/23 11:57		1.015	0.000954	mg/L	0.000102	0.000203		
* Potassium, Total	2/9/23 06:20	2/9/23 11:57		1.015	0.363	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 2/7/23 14:12
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02860

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 11:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 11:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	0.000196	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	0.0258	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	0.0498	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	0.000956	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	0.350	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	0.00153	mg/L	0.000508	0.001015	
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:11	2/8/23 14:11		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	106	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	145	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	105	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.21	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 16:10	2/8/23 16:10		1	2.11	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP

Collected: 2/7/23 14:12

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02860

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:18	2/9/23 11:18		1	2.46	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:10	2/9/23 13:10		1	0.109	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:34	2/8/23 12:34		1	14.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	2/7/23 14:09	2/7/23 14:09			229.20	uS/cm			FA
pH	2/7/23 14:09	2/7/23 14:09			7.58	SU			FA
Temperature	2/7/23 14:09	2/7/23 14:09			18.17	C			FA
Turbidity	2/7/23 14:09	2/7/23 14:09			0.67	NTU			FA
Sulfide	2/7/23 14:09	2/7/23 14:09			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 14:12

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BD02860

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 14:12

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BD02860

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02861	Lead, Total	mg/L	0.000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02863	Manganese, Dissolved	mg/L	0.000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02861	Manganese, Total	mg/L	0.000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02860	Sulfate	mg/L	0.0833	2.0	20.0	33.8	34.1	20.3	18.0 to 22.0	98.0	80.0 to 120	0.884	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD02860	Total Organic Carbon	mg/L	-0.0155	1.00	10.0	12.0	13.0	25.9		98.9	80.0 to 120	8.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 14:12

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BD02860

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02860	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.06	-0.011	1.91	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Equipment Blank-1

Location Code: WMWGASAPEB
Collected: 2/7/23 14:45
Customer ID:
Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02861

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 14:03		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/9/23 06:20	2/9/23 14:03		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	2/9/23 06:20	2/9/23 14:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	2/9/23 06:20	2/9/23 14:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 14:03		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:03		1	Not Detected	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 14:03		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	2/9/23 06:20	2/9/23 14:03		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:20	2/8/23 14:20		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Equipment Blank-1

Location Code: WMWGASAPEB
Collected: 2/7/23 14:45
Customer ID:
Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02861

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 17:23	2/8/23 17:23		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:19	2/9/23 11:19		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:11	2/9/23 13:11		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 13:01	2/8/23 13:01		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 2/7/23 14:45

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BD02861

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD02861	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD02861	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0962	0.0996	0.101	0.0850 to 0.115	96.2	70.0 to 130	3.47	20.0
BD02861	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.0988	0.102	0.103	0.0850 to 0.115	98.8	70.0 to 130	3.19	20.0
BD02861	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0979	0.101	0.103	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BD02861	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02861	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.980	0.981	0.991	0.850 to 1.15	98.0	70.0 to 130	0.102	20.0
BD02861	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02861	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.72	4.75	5.08	4.25 to 5.75	94.4	70.0 to 130	0.634	20.0
BD02861	Chloride	mg/L	0.0647	1.00	10.0	10.5	10.5	10.5	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BD02861	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.0998	0.101	0.101	0.0850 to 0.115	99.8	70.0 to 130	1.20	20.0
BD02861	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.102	0.104	0.105	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Fluoride	mg/L	0.0257	0.125	2.50	2.64	2.61	2.62	2.25 to 2.75	106	80.0 to 120	1.14	20.0
BD02861	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.198	0.196	0.201	0.170 to 0.230	99.0	70.0 to 130	1.02	20.0
BD02861	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02861	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.190	0.192	0.188	0.170 to 0.230	95.0	70.0 to 130	1.05	20.0
BD02861	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.79	4.82	4.94	4.25 to 5.75	95.8	70.0 to 130	0.624	20.0
BD02861	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02861	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD02861	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.2	10.3	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD02861	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.0996	0.102	0.103	0.0850 to 0.115	99.6	70.0 to 130	2.38	20.0
BD02861	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.983	0.991	1.00	0.850 to 1.15	98.3	70.0 to 130	0.811	20.0
BD02861	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.74	4.78	4.66	4.25 to 5.75	94.8	70.0 to 130	0.840	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 2/7/23 14:45

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BD02861

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BD02861	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.103	0.105	0.0850 to 0.115		102	70.0 to 130		0.976	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2			101	80.0 to 120		0.985	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 2/7/23 14:45

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BD02861

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Limit	Prec	Prec Limit
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 2/6/23 11:38
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02862

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	2/9/23 06:20	2/9/23 14:19		1.015	0.463	mg/L	0.030000	0.1015		
* Calcium, Total	2/9/23 06:20	2/9/23 15:19		10.15	76.3	mg/L	0.70035	4.06		
* Iron, Total	2/9/23 06:20	2/9/23 14:19		1.015	0.434	mg/L	0.008120	0.0406		
* Lithium, Total	2/9/23 06:20	2/9/23 14:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	2/9/23 06:20	2/9/23 14:19		1.015	38.1	mg/L	0.021315	0.406		
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:19		1	8.73	mg/L				
* Silicon, Total	2/9/23 06:20	2/9/23 14:19		1.015	4.08	mg/L	0.02030	0.25375		
* Sodium, Total	2/9/23 06:20	2/9/23 14:19		1.015	9.64	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:37		1.015	0.460	mg/L	0.030000	0.1015		
* Calcium, Dissolved	2/8/23 13:51	2/9/23 12:59		10.15	67.4	mg/L	0.70035	4.06		
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:37		1.015	0.321	mg/L	0.008120	0.0406		
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:37		1.015	36.1	mg/L	0.021315	0.406		
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:37		1	8.65	mg/L				
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:37		1.015	4.04	mg/L	0.02030	0.25375		
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:37		1.015	9.40	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	2/9/23 06:20	2/9/23 12:22		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	2/9/23 06:20	2/9/23 12:22		1.015	Not Detected	mg/L	0.006090	0.05075	U	
* Arsenic, Total	2/9/23 06:20	2/9/23 12:22		1.015	0.00233	mg/L	0.000081	0.000203		
* Barium, Total	2/9/23 06:20	2/9/23 12:22		1.015	0.0741	mg/L	0.000508	0.001015		
* Beryllium, Total	2/9/23 06:20	2/9/23 12:22		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	2/9/23 06:20	2/9/23 12:22		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	2/9/23 06:20	2/9/23 12:22		1.015	0.000279	mg/L	0.000203	0.001015	J	
* Cobalt, Total	2/9/23 06:20	2/9/23 12:22		1.015	0.000225	mg/L	0.000068	0.000203		
* Lead, Total	2/9/23 06:20	2/9/23 12:22		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	2/9/23 06:20	2/9/23 12:22		1.015	0.103	mg/L	0.000152	0.001015		
* Molybdenum, Total	2/9/23 06:20	2/9/23 12:22		1.015	0.000316	mg/L	0.000102	0.000203		
* Potassium, Total	2/9/23 06:20	2/9/23 12:22		1.015	0.293	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 2/6/23 11:38
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02862

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 12:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	0.00194	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	0.0678	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	0.0000731	mg/L	0.000068	0.000203	J
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	0.0982	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	0.00384	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	0.299	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	0.00119	mg/L	0.000508	0.001015	
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:22	2/8/23 14:22		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	188	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	391	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	187	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.36	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 17:41	2/8/23 17:41		1	2.86	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP

Collected: 2/6/23 11:38

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02862

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:56	2/9/23 11:56		2	19.7	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:25	2/9/23 13:25		1	0.0753	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 13:06	2/8/23 13:06		6	107	mg/L	3.6	12	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/6/23 11:34	2/6/23 11:34			613.29	uS/cm			FA
pH	2/6/23 11:34	2/6/23 11:34			7.45	SU			FA
Temperature	2/6/23 11:34	2/6/23 11:34			19.43	C			FA
Turbidity	2/6/23 11:34	2/6/23 11:34			0.81	NTU			FA
Sulfide	2/6/23 11:34	2/6/23 11:34			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:38

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BD02862

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:38

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BD02862

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02863	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02862	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100			0.105	0.0850 to 0.115		70.0 to 130		20.0
BD02870	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.0992	0.104	0.103	0.0850 to 0.115	99.2	70.0 to 130	4.72	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 11:38

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BD02862

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 2/6/23 13:15
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02863

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	2/9/23 06:20	2/9/23 14:22		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	2/9/23 06:20	2/9/23 15:22		10.15	45.4	mg/L	0.70035	4.06		
* Iron, Total	2/9/23 06:20	2/9/23 14:22		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	2/9/23 06:20	2/9/23 14:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	2/9/23 06:20	2/9/23 14:22		1.015	21.1	mg/L	0.021315	0.406		
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:22		1	8.37	mg/L				
* Silicon, Total	2/9/23 06:20	2/9/23 14:22		1.015	3.91	mg/L	0.02030	0.25375		
* Sodium, Total	2/9/23 06:20	2/9/23 14:22		1.015	2.12	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:40		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 11:40		1.015	37.6	mg/L	0.070035	0.406		
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:40		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:40		1.015	19.5	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	2/8/23 13:51	2/9/23 11:40		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:40		1	8.45	mg/L				
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:40		1.015	3.95	mg/L	0.02030	0.25375		
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:40		1.015	2.31	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	2/9/23 06:20	2/9/23 12:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	2/9/23 06:20	2/9/23 12:26		1.015	Not Detected	mg/L	0.006090	0.05075	U	
* Arsenic, Total	2/9/23 06:20	2/9/23 12:26		1.015	0.000194	mg/L	0.000081	0.000203	J	
* Barium, Total	2/9/23 06:20	2/9/23 12:26		1.015	0.0130	mg/L	0.000508	0.001015		
* Beryllium, Total	2/9/23 06:20	2/9/23 12:26		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	2/9/23 06:20	2/9/23 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	2/9/23 06:20	2/9/23 12:26		1.015	0.000300	mg/L	0.000203	0.001015	J	
* Cobalt, Total	2/9/23 06:20	2/9/23 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	2/9/23 06:20	2/9/23 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	2/9/23 06:20	2/9/23 12:26		1.015	0.00117	mg/L	0.000152	0.001015		
* Molybdenum, Total	3/2/23 11:41	3/2/23 15:12		1.015	0.000249	mg/L	0.000102	0.000203	C	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 2/6/23 13:15
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02863

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	2/9/23 06:20	2/9/23 12:26		1.015	0.198	mg/L	0.169505	0.5075	J
* Selenium, Total	2/9/23 06:20	2/9/23 12:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	0.000216	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	0.0119	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	0.000228	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	0.000875	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	0.210	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	0.00106	mg/L	0.000508	0.001015	
* Thallium, Dissolved	2/8/23 13:51	2/8/23 18:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:24	2/8/23 14:24		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	171	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	183	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	169	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.83	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 17:55	2/8/23 17:55		1	2.30	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP

Collected: 2/6/23 13:15

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02863

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:44	2/9/23 11:44		1	2.95	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:27	2/9/23 13:27		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:53	2/8/23 12:53		1	3.90	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/6/23 13:11	2/6/23 13:11			335.09	uS/cm			FA
pH	2/6/23 13:11	2/6/23 13:11			7.60	SU			FA
Temperature	2/6/23 13:11	2/6/23 13:11			20.13	C			FA
Turbidity	2/6/23 13:11	2/6/23 13:11			0.3	NTU			FA
Sulfide	2/6/23 13:11	2/6/23 13:11			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 13:15

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BD02863

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02863	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.117	0.112	0.109	0.0850 to 0.115	117	70.0 to 130	4.37	20.0
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02863	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.107	0.101	0.103	0.0850 to 0.115	107	70.0 to 130	5.77	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02863	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.105	0.0995	0.0910	0.0850 to 0.115	93.1	70.0 to 130	5.38	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02863	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.0971	0.0994	0.101	0.0850 to 0.115	97.1	70.0 to 130	2.34	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02863	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.02	1.02	0.994	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02863	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02863	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	41.8	43.1	5.09	4.25 to 5.75	84.0	70.0 to 130	3.06	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02863	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.105	0.100	0.100	0.0850 to 0.115	105	70.0 to 130	4.88	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02863	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.100	0.0961	0.0969	0.0850 to 0.115	100	70.0 to 130	3.98	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02863	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 13:15

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BD02863

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02863	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02863	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.196	0.191	0.182	0.170 to 0.230	98.0	70.0 to 130	2.58	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02863	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	24.7	24.4	4.77	4.25 to 5.75	104	70.0 to 130	1.22	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02863	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.105	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	4.88	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02863	Molybdenum, Dissolved	mg/L	0.000103	0.0100	0.2	0.195	0.196	0.199	0.170 to 0.230	97.5	70.0 to 130	0.512	20.0
BD02866	Molybdenum, Total	mg/L	0.0000164	0.0002	0.100	0.104	0.104	0.0980	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02863	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.2	10.6	10.6	8.50 to 11.5	110	70.0 to 130	5.50	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02863	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.111	0.107	0.106	0.0850 to 0.115	110	70.0 to 130	3.67	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02863	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	4.92	4.88	0.979	0.850 to 1.15	97.0	70.0 to 130	0.816	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02863	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	7.29	7.11	4.51	4.25 to 5.75	99.6	70.0 to 130	2.50	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0
BD02863	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0946	0.0943	0.0965	0.0850 to 0.115	94.6	70.0 to 130	0.318	20.0
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 13:15

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BD02863

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 2/6/23 15:10
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02864

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	2/9/23 06:20	2/9/23 14:25		1.015	0.155	mg/L	0.030000	0.1015		
* Calcium, Total	2/9/23 06:20	2/9/23 14:25		1.015	26.2	mg/L	0.070035	0.406		
* Iron, Total	2/9/23 06:20	2/9/23 14:25		1.015	0.0385	mg/L	0.008120	0.0406	J	
* Lithium, Total	2/9/23 06:20	2/9/23 14:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	2/9/23 06:20	2/9/23 14:25		1.015	13.1	mg/L	0.021315	0.406		
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:25		1	7.73	mg/L				
* Silicon, Total	2/9/23 06:20	2/9/23 14:25		1.015	3.61	mg/L	0.02030	0.25375		
* Sodium, Total	2/9/23 06:20	2/9/23 14:25		1.015	6.34	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:56		1.015	0.157	mg/L	0.030000	0.1015		
* Calcium, Dissolved	2/8/23 13:51	2/9/23 11:56		1.015	24.2	mg/L	0.070035	0.406		
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:56		1.015	0.00888	mg/L	0.008120	0.0406	J	
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:56		1.015	12.1	mg/L	0.021315	0.406		
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:56		1	7.64	mg/L				
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:56		1.015	3.57	mg/L	0.02030	0.25375		
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:56		1.015	6.46	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	2/9/23 06:20	2/9/23 12:29		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	2/9/23 06:20	2/9/23 12:29		1.015	0.0569	mg/L	0.006090	0.05075		
* Arsenic, Total	2/9/23 06:20	2/9/23 12:29		1.015	0.000165	mg/L	0.000081	0.000203	J	
* Barium, Total	2/9/23 06:20	2/9/23 12:29		1.015	0.0135	mg/L	0.000508	0.001015		
* Beryllium, Total	2/9/23 06:20	2/9/23 12:29		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	2/9/23 06:20	2/9/23 12:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	2/9/23 06:20	2/9/23 12:29		1.015	0.000248	mg/L	0.000203	0.001015	J	
* Cobalt, Total	2/9/23 06:20	2/9/23 12:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	2/9/23 06:20	2/9/23 12:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	2/9/23 06:20	2/9/23 12:29		1.015	0.00184	mg/L	0.000152	0.001015		
* Molybdenum, Total	2/9/23 06:20	2/9/23 12:29		1.015	0.00424	mg/L	0.000102	0.000203		
* Potassium, Total	2/9/23 06:20	2/9/23 12:29		1.015	0.641	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 2/6/23 15:10
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02864

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 12:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	0.000140	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	0.0124	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	0.00521	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	0.661	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	0.000526	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	2/8/23 13:51	2/8/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:26	2/8/23 14:26		1	1.14	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	93.3	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	143	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	92.7	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	0.525	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 18:13	2/8/23 18:13		1	1.69	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP

Collected: 2/6/23 15:10

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02864

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:45	2/9/23 11:45		1	12.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:28	2/9/23 13:28		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:54	2/8/23 12:54		1	11.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/6/23 15:06	2/6/23 15:06			241.81	uS/cm			FA
pH	2/6/23 15:06	2/6/23 15:06			6.79	SU			FA
Temperature	2/6/23 15:06	2/6/23 15:06			20.05	C			FA
Turbidity	2/6/23 15:06	2/6/23 15:06			1.85	NTU			FA
Sulfide	2/6/23 15:06	2/6/23 15:06			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 15:10

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BD02864

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02869	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.110	0.106	0.109	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02869	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.102	0.100	0.100	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02869	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.102	0.103	0.0910	0.0850 to 0.115	89.3	70.0 to 130	0.976	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.103	0.0991	0.101	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02869	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.09	1.08	0.994	0.850 to 1.15	99.2	70.0 to 130	0.922	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02869	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02869	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	56.3	56.5	5.09	4.25 to 5.75	-14.0	70.0 to 130	0.355	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02869	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.0990	0.0981	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.913	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02869	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.0959	0.0937	0.0969	0.0850 to 0.115	95.9	70.0 to 130	2.32	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02869	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.199	0.200	0.204	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 15:10

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BD02864

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02869	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.103	0.105	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02869	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.197	0.192	0.182	0.170 to 0.230	98.5	70.0 to 130	2.57	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02869	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	32.7	31.9	4.77	4.25 to 5.75	96.0	70.0 to 130	2.48	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02869	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.101	0.0989	0.101	0.0850 to 0.115	99.7	70.0 to 130	2.10	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02869	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100	0.106	0.108	0.105	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD02870	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.0992	0.104	0.103	0.0850 to 0.115	99.2	70.0 to 130	4.72	20.0
BD02869	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.3	11.0	10.6	8.50 to 11.5	106	70.0 to 130	2.69	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02869	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.106	0.108	0.106	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02869	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	5.36	5.27	0.979	0.850 to 1.15	99.0	70.0 to 130	1.69	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02869	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	10.5	10.3	4.51	4.25 to 5.75	94.2	70.0 to 130	1.92	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0
BD02869	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0976	0.0927	0.0965	0.0850 to 0.115	97.6	70.0 to 130	5.15	20.0
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 15:10

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BD02864

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP
Collected: 2/6/23 15:10
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02865

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 14:28		1.015	0.157	mg/L	0.030000	0.1015	
* Calcium, Total	2/9/23 06:20	2/9/23 14:28		1.015	22.5	mg/L	0.070035	0.406	
* Iron, Total	2/9/23 06:20	2/9/23 14:28		1.015	0.0383	mg/L	0.008120	0.0406	J
* Lithium, Total	2/9/23 06:20	2/9/23 14:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 14:28		1.015	11.9	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:28		1	8.07	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 14:28		1.015	3.77	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 14:28		1.015	6.60	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 11:59		1.015	0.157	mg/L	0.030000	0.1015	
* Calcium, Dissolved	2/8/23 13:51	2/9/23 11:59		1.015	23.9	mg/L	0.070035	0.406	
* Iron, Dissolved	2/8/23 13:51	2/9/23 11:59		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/8/23 13:51	2/9/23 11:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 11:59		1.015	12.1	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 11:59		1	7.66	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 11:59		1.015	3.58	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 11:59		1.015	6.55	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 12:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 12:33		1.015	0.0598	mg/L	0.006090	0.05075	
* Arsenic, Total	2/9/23 06:20	2/9/23 12:33		1.015	0.000121	mg/L	0.000081	0.000203	J
* Barium, Total	2/9/23 06:20	2/9/23 12:33		1.015	0.0136	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 12:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 12:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 12:33		1.015	0.000215	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/9/23 06:20	2/9/23 12:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 12:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 12:33		1.015	0.00182	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 12:33		1.015	0.00433	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 12:33		1.015	0.659	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP
Collected: 2/6/23 15:10
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02865

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 12:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	0.000102	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	0.0121	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	0.00480	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	0.660	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:28	2/8/23 14:28		1	1.12	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	92.0	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	148	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	91.3	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	0.622	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 18:30	2/8/23 18:30		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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP

Collected: 2/6/23 15:10

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02865

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:47	2/9/23 11:47		1	12.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:29	2/9/23 13:29		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:55	2/8/23 12:55		1	12.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/6/23 15:06	2/6/23 15:06			241.81	uS/cm			FA
pH	2/6/23 15:06	2/6/23 15:06			6.79	SU			FA
Temperature	2/6/23 15:06	2/6/23 15:06			20.05	C			FA
Turbidity	2/6/23 15:06	2/6/23 15:06			1.85	NTU			FA
Sulfide	2/6/23 15:06	2/6/23 15:06			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 15:10

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BD02865

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD02869	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.110	0.106	0.109	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02869	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.102	0.100	0.100	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02869	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.102	0.103	0.0910	0.0850 to 0.115	89.3	70.0 to 130	0.976	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.103	0.0991	0.101	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02869	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.09	1.08	0.994	0.850 to 1.15	99.2	70.0 to 130	0.922	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02869	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02869	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	56.3	56.5	5.09	4.25 to 5.75	-14.0	70.0 to 130	0.355	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02869	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.0990	0.0981	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.913	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02869	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.0959	0.0937	0.0969	0.0850 to 0.115	95.9	70.0 to 130	2.32	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02869	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.199	0.200	0.204	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 15:10

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BD02865

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02869	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.103	0.105	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02869	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.197	0.192	0.182	0.170 to 0.230	98.5	70.0 to 130	2.57	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02869	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	32.7	31.9	4.77	4.25 to 5.75	96.0	70.0 to 130	2.48	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02869	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.101	0.0989	0.101	0.0850 to 0.115	99.7	70.0 to 130	2.10	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02865	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.004	0.00377	0.00376	0.00379	0.00340 to 0.00460	94.2	70.0 to 130	0.266	20.0
BD02869	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100	0.106	0.108	0.105	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD02870	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.0992	0.104	0.103	0.0850 to 0.115	99.2	70.0 to 130	4.72	20.0
BD02869	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.3	11.0	10.6	8.50 to 11.5	106	70.0 to 130	2.69	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02869	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.106	0.108	0.106	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02869	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	5.36	5.27	0.979	0.850 to 1.15	99.0	70.0 to 130	1.69	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02869	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	10.5	10.3	4.51	4.25 to 5.75	94.2	70.0 to 130	1.92	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0
BD02869	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0976	0.0927	0.0965	0.0850 to 0.115	97.6	70.0 to 130	5.15	20.0
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/6/23 15:10

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BD02865

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 2/7/23 10:23
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02866

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	2/9/23 06:20	2/9/23 14:31		1.015	0.972	mg/L	0.030000	0.1015		
* Calcium, Total	2/9/23 06:20	2/9/23 15:25		10.15	71.8	mg/L	0.70035	4.06		
* Iron, Total	2/9/23 06:20	2/9/23 14:31		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	2/9/23 06:20	2/9/23 14:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	2/9/23 06:20	2/9/23 14:31		1.015	28.9	mg/L	0.021315	0.406		
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:31		1	7.36	mg/L				
* Silicon, Total	2/9/23 06:20	2/9/23 14:31		1.015	3.44	mg/L	0.02030	0.25375		
* Sodium, Total	2/9/23 06:20	2/9/23 14:31		1.015	17.5	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	2/8/23 13:51	2/9/23 12:02		1.015	0.973	mg/L	0.030000	0.1015		
* Calcium, Dissolved	2/8/23 13:51	2/9/23 13:02		10.15	70.1	mg/L	0.70035	4.06		
* Iron, Dissolved	2/8/23 13:51	2/9/23 12:02		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	2/8/23 13:51	2/9/23 12:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 12:02		1.015	28.2	mg/L	0.021315	0.406		
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 12:02		1	7.36	mg/L				
* Silicon, Dissolved	2/8/23 13:51	2/9/23 12:02		1.015	3.44	mg/L	0.02030	0.25375		
* Sodium, Dissolved	2/8/23 13:51	2/9/23 12:02		1.015	16.2	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	2/9/23 06:20	2/9/23 12:37		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	2/9/23 06:20	2/9/23 12:37		1.015	Not Detected	mg/L	0.006090	0.05075	U	
* Arsenic, Total	2/9/23 06:20	2/9/23 12:37		1.015	0.000102	mg/L	0.000081	0.000203	J	
* Barium, Total	2/9/23 06:20	2/9/23 12:37		1.015	0.0183	mg/L	0.000508	0.001015		
* Beryllium, Total	2/9/23 06:20	2/9/23 12:37		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	2/9/23 06:20	2/9/23 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	2/9/23 06:20	2/9/23 12:37		1.015	0.000303	mg/L	0.000203	0.001015	J	
* Cobalt, Total	2/9/23 06:20	2/9/23 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	2/9/23 06:20	2/9/23 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	2/9/23 06:20	2/9/23 12:37		1.015	0.000169	mg/L	0.000152	0.001015	J	
* Molybdenum, Total	3/2/23 11:41	3/2/23 15:15		1.015	0.00254	mg/L	0.000102	0.000203	C	
* Potassium, Total	2/9/23 06:20	2/9/23 12:37		1.015	1.10	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 2/7/23 10:23
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02866

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 12:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	0.0000888	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	0.0162	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Dissolved	3/2/23 09:27	3/2/23 12:39		1.015	0.00326	mg/L	0.000102	0.000203	C
* Potassium, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	1.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 19:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:29	2/8/23 14:29		1	1.46	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	181	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	358	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	180	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.31	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 18:48	2/8/23 18:48		1	2.32	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP

Collected: 2/7/23 10:23

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02866

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:48	2/9/23 11:48		1	19.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:30	2/9/23 13:30		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 13:07	2/8/23 13:07		4	88.1	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/7/23 10:19	2/7/23 10:19			582.31	uS/cm			FA
pH	2/7/23 10:19	2/7/23 10:19			7.58	SU			FA
Temperature	2/7/23 10:19	2/7/23 10:19			18.07	C			FA
Turbidity	2/7/23 10:19	2/7/23 10:19			0.37	NTU			FA
Sulfide	2/7/23 10:19	2/7/23 10:19			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 2/7/23 10:23
Customer ID:
Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BD02866

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02869	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.110	0.106	0.109	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02869	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.102	0.100	0.100	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02869	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.102	0.103	0.0910	0.0850 to 0.115	89.3	70.0 to 130	0.976	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.103	0.0991	0.101	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02869	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.09	1.08	0.994	0.850 to 1.15	99.2	70.0 to 130	0.922	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02869	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02869	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	56.3	56.5	5.09	4.25 to 5.75	-14.0	70.0 to 130	0.355	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02869	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.0990	0.0981	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.913	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02869	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.0959	0.0937	0.0969	0.0850 to 0.115	95.9	70.0 to 130	2.32	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02869	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.199	0.200	0.204	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 2/7/23 10:23
Customer ID:
Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BD02866

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02869	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.103	0.105	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02869	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.197	0.192	0.182	0.170 to 0.230	98.5	70.0 to 130	2.57	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02869	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	32.7	31.9	4.77	4.25 to 5.75	96.0	70.0 to 130	2.48	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02869	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.101	0.0989	0.101	0.0850 to 0.115	99.7	70.0 to 130	2.10	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.0040	0.00328	0.00382	0.00379	0.00340 to 0.00460	82.0	70.0 to 130	15.2	20.0
BD02866	Molybdenum, Dissolved	mg/L	0.0000007	0.0002	0.100	0.105	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02866	Molybdenum, Total	mg/L	0.0000164	0.0002	0.100	0.104	0.104	0.0980	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02869	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.3	11.0	10.6	8.50 to 11.5	106	70.0 to 130	2.69	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02869	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.106	0.108	0.106	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02869	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	5.36	5.27	0.979	0.850 to 1.15	99.0	70.0 to 130	1.69	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02869	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	10.5	10.3	4.51	4.25 to 5.75	94.2	70.0 to 130	1.92	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0
BD02869	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0976	0.0927	0.0965	0.0850 to 0.115	97.6	70.0 to 130	5.15	20.0
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 10:23

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BD02866

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 2/7/23 12:50
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02867

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 14:35		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/9/23 06:20	2/9/23 14:35		1.015	29.0	mg/L	0.070035	0.406	
* Iron, Total	2/9/23 06:20	2/9/23 14:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	2/9/23 06:20	2/9/23 14:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 14:35		1.015	16.4	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:35		1	7.64	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 14:35		1.015	3.57	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 14:35		1.015	1.99	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 12:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	2/8/23 13:51	2/9/23 12:05		1.015	30.8	mg/L	0.070035	0.406	
* Iron, Dissolved	2/8/23 13:51	2/9/23 12:05		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/8/23 13:51	2/9/23 12:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 12:05		1.015	16.4	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 12:05		1	7.53	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 12:05		1.015	3.52	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 12:05		1.015	1.80	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 12:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 12:40		1.015	0.0270	mg/L	0.006090	0.05075	J
* Arsenic, Total	2/9/23 06:20	2/9/23 12:40		1.015	0.000466	mg/L	0.000081	0.000203	
* Barium, Total	2/9/23 06:20	2/9/23 12:40		1.015	0.0163	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 12:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 12:40		1.015	0.000462	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/9/23 06:20	2/9/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 12:40		1.015	0.00148	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 12:40		1.015	0.00393	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 12:40		1.015	0.217	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 2/7/23 12:50
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02867

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 12:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:40		1.015	0.000482	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	0.000505	mg/L	0.000081	0.000203	
* Barium, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	0.0148	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	0.00632	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	0.223	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 19:26		1.015	0.000228	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:30	2/8/23 14:30		1	0.208	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	143	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	141	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	141	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.92	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 19:05	2/8/23 19:05		1	2.07	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 2/7/23 12:50
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02867

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:49	2/9/23 11:49		1	2.32	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:31	2/9/23 13:31		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:58	2/8/23 12:58		1	2.60	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/7/23 12:48	2/7/23 12:48			274.35	uS/cm			FA
pH	2/7/23 12:48	2/7/23 12:48			7.79	SU			FA
Temperature	2/7/23 12:48	2/7/23 12:48			19.40	C			FA
Turbidity	2/7/23 12:48	2/7/23 12:48			1.42	NTU			FA
Sulfide	2/7/23 12:48	2/7/23 12:48			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 2/7/23 12:50
Customer ID:
Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BD02867

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02869	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.110	0.106	0.109	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02869	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.102	0.100	0.100	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02869	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.102	0.103	0.0910	0.0850 to 0.115	89.3	70.0 to 130	0.976	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.103	0.0991	0.101	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02869	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.09	1.08	0.994	0.850 to 1.15	99.2	70.0 to 130	0.922	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02869	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02869	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	56.3	56.5	5.09	4.25 to 5.75	-14.0	70.0 to 130	0.355	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02869	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.0990	0.0981	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.913	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02869	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.0959	0.0937	0.0969	0.0850 to 0.115	95.9	70.0 to 130	2.32	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02869	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.199	0.200	0.204	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 12:50

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BD02867

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02869	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.103	0.105	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02869	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.197	0.192	0.182	0.170 to 0.230	98.5	70.0 to 130	2.57	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02869	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	32.7	31.9	4.77	4.25 to 5.75	96.0	70.0 to 130	2.48	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02869	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.101	0.0989	0.101	0.0850 to 0.115	99.7	70.0 to 130	2.10	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.0040	0.00328	0.00382	0.00379	0.00340 to 0.00460	82.0	70.0 to 130	15.2	20.0
BD02869	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100	0.106	0.108	0.105	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD02870	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.0992	0.104	0.103	0.0850 to 0.115	99.2	70.0 to 130	4.72	20.0
BD02869	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.3	11.0	10.6	8.50 to 11.5	106	70.0 to 130	2.69	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02869	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.106	0.108	0.106	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02869	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	5.36	5.27	0.979	0.850 to 1.15	99.0	70.0 to 130	1.69	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02869	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	10.5	10.3	4.51	4.25 to 5.75	94.2	70.0 to 130	1.92	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0
BD02869	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0976	0.0927	0.0965	0.0850 to 0.115	97.6	70.0 to 130	5.15	20.0
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 12:50

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BD02867

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 2/7/23 14:05
Customer ID:
Submittal Date: 2/8/23 10:15

Laboratory ID Number: BD02868

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 14:38		1.015	0.0979	mg/L	0.030000	0.1015	J
* Calcium, Total	2/9/23 06:20	2/9/23 15:29		10.15	59.7	mg/L	0.70035	4.06	
* Iron, Total	2/9/23 06:20	2/9/23 14:38		1.015	0.0428	mg/L	0.008120	0.0406	
* Lithium, Total	2/9/23 06:20	2/9/23 14:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 14:38		1.015	27.8	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:38		1	9.48	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 14:38		1.015	4.43	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 14:38		1.015	5.63	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 12:08		1.015	0.0987	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	2/8/23 13:51	2/9/23 13:05		10.15	55.1	mg/L	0.70035	4.06	
* Iron, Dissolved	2/8/23 13:51	2/9/23 12:08		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/8/23 13:51	2/9/23 12:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 12:08		1.015	28.0	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 12:08		1	9.35	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 12:08		1.015	4.37	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 12:08		1.015	5.57	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 12:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 12:44		1.015	0.0546	mg/L	0.006090	0.05075	
* Arsenic, Total	2/9/23 06:20	2/9/23 12:44		1.015	0.000196	mg/L	0.000081	0.000203	J
* Barium, Total	2/9/23 06:20	2/9/23 12:44		1.015	0.0151	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 12:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 12:44		1.015	0.000692	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/9/23 06:20	2/9/23 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 12:44		1.015	0.00268	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 12:44		1.015	0.000994	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 12:44		1.015	0.700	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 2/7/23 14:05
Customer ID:
Submittal Date: 2/8/23 10:15

Laboratory ID Number: BD02868

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 12:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	0.000113	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	0.0130	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	0.000494	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	0.00126	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	0.00135	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	0.686	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:31	2/8/23 14:31		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	231	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/8/23 14:45	2/9/23 14:18		1	247	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	229	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	2.20	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 19:21	2/8/23 19:21		1	3.27	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP

Collected: 2/7/23 14:05

Customer ID:

Submittal Date: 2/8/23 10:15

Laboratory ID Number: BD02868

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:50	2/9/23 11:50		1	9.01	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:33	2/9/23 13:33		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 12:59	2/8/23 12:59		1	11.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/7/23 14:02	2/7/23 14:02			473.31	uS/cm			FA
pH	2/7/23 14:02	2/7/23 14:02			7.30	SU			FA
Temperature	2/7/23 14:02	2/7/23 14:02			18.93	C			FA
Turbidity	2/7/23 14:02	2/7/23 14:02			1.32	NTU			FA
Sulfide	2/7/23 14:02	2/7/23 14:02			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 2/7/23 14:05
Customer ID:
Delivery Date: 2/8/23 10:15

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BD02868

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02869	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.110	0.106	0.109	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02869	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.102	0.100	0.100	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02869	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.102	0.103	0.0910	0.0850 to 0.115	89.3	70.0 to 130	0.976	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.103	0.0991	0.101	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02869	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.09	1.08	0.994	0.850 to 1.15	99.2	70.0 to 130	0.922	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02869	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02869	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	56.3	56.5	5.09	4.25 to 5.75	-14.0	70.0 to 130	0.355	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02869	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.0990	0.0981	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.913	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02869	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.0959	0.0937	0.0969	0.0850 to 0.115	95.9	70.0 to 130	2.32	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02869	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.199	0.200	0.204	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 14:05

Customer ID:

Delivery Date: 2/8/23 10:15

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BD02868

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02869	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.103	0.105	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02869	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.197	0.192	0.182	0.170 to 0.230	98.5	70.0 to 130	2.57	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02869	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	32.7	31.9	4.77	4.25 to 5.75	96.0	70.0 to 130	2.48	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02869	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.101	0.0989	0.101	0.0850 to 0.115	99.7	70.0 to 130	2.10	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.0040	0.00328	0.00382	0.00379	0.00340 to 0.00460	82.0	70.0 to 130	15.2	20.0
BD02869	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100	0.106	0.108	0.105	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD02870	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.0992	0.104	0.103	0.0850 to 0.115	99.2	70.0 to 130	4.72	20.0
BD02869	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.3	11.0	10.6	8.50 to 11.5	106	70.0 to 130	2.69	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02869	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.106	0.108	0.106	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02869	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	5.36	5.27	0.979	0.850 to 1.15	99.0	70.0 to 130	1.69	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02869	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	10.5	10.3	4.51	4.25 to 5.75	94.2	70.0 to 130	1.92	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0
BD02869	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0976	0.0927	0.0965	0.0850 to 0.115	97.6	70.0 to 130	5.15	20.0
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 14:05

Customer ID:

Delivery Date: 2/8/23 10:15

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BD02868

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02868	Solids, Dissolved	mg/L	1.00	25.0			252	50.0	40.0 to 60.0			2.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4 Dup

Location Code: WMWGASAP
Collected: 2/7/23 14:05
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02869

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 14:41		1.015	0.0984	mg/L	0.030000	0.1015	J
* Calcium, Total	2/9/23 06:20	2/9/23 15:38		10.15	52.2	mg/L	0.70035	4.06	
* Iron, Total	2/9/23 06:20	2/9/23 14:41		1.015	0.0342	mg/L	0.008120	0.0406	J
* Lithium, Total	2/9/23 06:20	2/9/23 14:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 14:41		1.015	28.2	mg/L	0.021315	0.406	
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:41		1	9.48	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 14:41		1.015	4.43	mg/L	0.02030	0.25375	
* Sodium, Total	2/9/23 06:20	2/9/23 14:41		1.015	5.95	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	2/8/23 13:51	2/9/23 12:12		1.015	0.0983	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	2/8/23 13:51	2/9/23 13:08		10.15	57.0	mg/L	0.70035	4.06	RA
* Iron, Dissolved	2/8/23 13:51	2/9/23 12:12		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	2/8/23 13:51	2/9/23 12:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	2/8/23 13:51	2/9/23 12:12		1.015	27.9	mg/L	0.021315	0.406	
* Silica, Dissolved (calc.)	2/8/23 13:51	2/9/23 12:12		1	9.35	mg/L			
* Silicon, Dissolved	2/8/23 13:51	2/9/23 12:12		1.015	4.37	mg/L	0.02030	0.25375	
* Sodium, Dissolved	2/8/23 13:51	2/9/23 12:12		1.015	5.79	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 12:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 12:48		1.015	0.0512	mg/L	0.006090	0.05075	
* Arsenic, Total	2/9/23 06:20	2/9/23 12:48		1.015	0.000184	mg/L	0.000081	0.000203	J
* Barium, Total	2/9/23 06:20	2/9/23 12:48		1.015	0.0139	mg/L	0.000508	0.001015	
* Beryllium, Total	2/9/23 06:20	2/9/23 12:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 12:48		1.015	0.000615	mg/L	0.000203	0.001015	J
* Cobalt, Total	2/9/23 06:20	2/9/23 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 12:48		1.015	0.00220	mg/L	0.000152	0.001015	
* Molybdenum, Total	2/9/23 06:20	2/9/23 12:48		1.015	0.000857	mg/L	0.000102	0.000203	
* Potassium, Total	2/9/23 06:20	2/9/23 12:48		1.015	0.704	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4 Dup

Location Code: WMWGASAP
Collected: 2/7/23 14:05
Customer ID:
Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02869

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	2/9/23 06:20	2/9/23 12:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	0.000122	mg/L	0.000081	0.000203	J
* Barium, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	0.0127	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	0.000531	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	0.00128	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	0.00275	mg/L	0.000102	0.000203	
* Potassium, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	0.694	mg/L	0.169505	0.5075	
* Selenium, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	2/8/23 13:51	2/8/23 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:32	2/8/23 14:32		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
* Alkalinity to pH 4.5	2/15/23 13:12	2/15/23 15:59		1	230	mg CaCO3/L			
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/10/23 10:05	2/13/23 12:57		1	258	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
* Bicarbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	228	mg CaCO3/L			
* Carbonate Alkalinity, (calc.)	2/15/23 13:12	2/15/23 15:59		1	1.95	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 19:38	2/8/23 19:38		1	3.07	mg/L	1.00	2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4 Dup

Location Code: WMWGASAP

Collected: 2/7/23 14:05

Customer ID:

Submittal Date: 2/8/23 10:09

Laboratory ID Number: BD02869

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:51	2/9/23 11:51		1	9.02	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:34	2/9/23 13:34		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 13:00	2/8/23 13:00		1	11.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	2/7/23 14:02	2/7/23 14:02			473.31	uS/cm			FA
pH	2/7/23 14:02	2/7/23 14:02			7.30	SU			FA
Temperature	2/7/23 14:02	2/7/23 14:02			18.93	C			FA
Turbidity	2/7/23 14:02	2/7/23 14:02			1.32	NTU			FA
Sulfide	2/7/23 14:02	2/7/23 14:02			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 14:05

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-4 Dup

Laboratory ID Number: BD02869

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD02869	Aluminum, Dissolved	mg/L	-0.000246	0.0198	0.100	0.110	0.106	0.109	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02869	Antimony, Dissolved	mg/L	0.000319	0.00100	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Arsenic, Dissolved	mg/L	0.0000053	0.000200	0.100	0.102	0.100	0.100	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02869	Barium, Dissolved	mg/L	0.0000273	0.00100	0.100	0.102	0.103	0.0910	0.0850 to 0.115	89.3	70.0 to 130	0.976	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02869	Beryllium, Dissolved	mg/L	0.0000211	0.000880	0.100	0.103	0.0991	0.101	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02869	Boron, Dissolved	mg/L	-0.000174	0.0650	1.00	1.09	1.08	0.994	0.850 to 1.15	99.2	70.0 to 130	0.922	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02869	Cadmium, Dissolved	mg/L	-0.0000005	0.000147	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02869	Calcium, Dissolved	mg/L	-0.00430	0.152	5.00	56.3	56.5	5.09	4.25 to 5.75	-14.0	70.0 to 130	0.355	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02869	Chromium, Dissolved	mg/L	-0.0000394	0.000440	0.100	0.0990	0.0981	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.913	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02869	Cobalt, Dissolved	mg/L	-0.000137	0.000147	0.100	0.0959	0.0937	0.0969	0.0850 to 0.115	95.9	70.0 to 130	2.32	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02869	Iron, Dissolved	mg/L	-0.000443	0.0176	0.2	0.199	0.200	0.204	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 14:05

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-4 Dup

Laboratory ID Number: BD02869

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02869	Lead, Dissolved	mg/L	0.0000089	0.000147	0.100	0.106	0.103	0.105	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02869	Lithium, Dissolved	mg/L	0.000324	0.0154	0.200	0.197	0.192	0.182	0.170 to 0.230	98.5	70.0 to 130	2.57	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02869	Magnesium, Dissolved	mg/L	0.0051	0.0462	5.00	32.7	31.9	4.77	4.25 to 5.75	96.0	70.0 to 130	2.48	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02869	Manganese, Dissolved	mg/L	0.0000092	0.00033	0.100	0.101	0.0989	0.101	0.0850 to 0.115	99.7	70.0 to 130	2.10	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.0040	0.00328	0.00382	0.00379	0.00340 to 0.00460	82.0	70.0 to 130	15.2	20.0
BD02869	Molybdenum, Dissolved	mg/L	0.0000114	0.0002	0.100	0.106	0.108	0.105	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD02870	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.0992	0.104	0.103	0.0850 to 0.115	99.2	70.0 to 130	4.72	20.0
BD02869	Potassium, Dissolved	mg/L	-0.00950	0.367	10.0	11.3	11.0	10.6	8.50 to 11.5	106	70.0 to 130	2.69	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02869	Selenium, Dissolved	mg/L	0.0000319	0.00100	0.100	0.106	0.108	0.106	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02869	Silicon, Dissolved	mg/L	0.000682	0.0440	1.00	5.36	5.27	0.979	0.850 to 1.15	99.0	70.0 to 130	1.69	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02869	Sodium, Dissolved	mg/L	0.00172	0.0880	5.00	10.5	10.3	4.51	4.25 to 5.75	94.2	70.0 to 130	1.92	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0
BD02869	Thallium, Dissolved	mg/L	-0.000198	0.000147	0.100	0.0976	0.0927	0.0965	0.0850 to 0.115	97.6	70.0 to 130	5.15	20.0
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2		101	80.0 to 120	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 2/7/23 14:05

Customer ID:

Delivery Date: 2/8/23 10:09

Description: Gaston Ash Pond - MW-4 Dup

Laboratory ID Number: BD02869

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02869	Alkalinity to pH 4.5	mg CaCO3/L					230	49.7	45.0 to 55.0			0.00	10.0
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02869	Solids, Dissolved	mg/L	1.00	25.0			259	53.0	40.0 to 60.0			0.387	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-5

Location Code: WMWGASAPFB

Collected: 2/7/23 15:00

Customer ID:

Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02870

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	2/9/23 06:20	2/9/23 14:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	2/9/23 06:20	2/9/23 14:44		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	2/9/23 06:20	2/9/23 14:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	2/9/23 06:20	2/9/23 14:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	2/9/23 06:20	2/9/23 14:44		1.015	Not Detected	mg/L	0.021315	0.406	U
* Silica, Total (calc.)	2/9/23 06:20	2/9/23 14:44		1	Not Detected	mg/L			
* Silicon, Total	2/9/23 06:20	2/9/23 14:44		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	2/9/23 06:20	2/9/23 14:44		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.006090	0.05075	U
* Arsenic, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	2/9/23 06:20	2/9/23 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	2/8/23 17:57	2/9/23 00:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	2/8/23 14:33	2/8/23 14:33		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	2/10/23 10:05	2/13/23 12:57		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-5

Location Code: WMWGASAPFB

Collected: 2/7/23 15:00

Customer ID:

Submittal Date: 2/8/23 10:10

Laboratory ID Number: BD02870

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	2/8/23 19:55	2/8/23 19:55		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	2/9/23 11:53	2/9/23 11:53		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	2/9/23 13:35	2/9/23 13:35		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	2/8/23 13:03	2/8/23 13:03		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/7/23 15:00

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BD02870

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD02870	Aluminum, Total	mg/L	0.0000741	0.0198	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD02870	Antimony, Total	mg/L	0.000386	0.00100	0.100	0.0973	0.101	0.101	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02870	Arsenic, Total	mg/L	-0.0000122	0.000200	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD02870	Barium, Total	mg/L	-0.0000393	0.00100	0.100	0.0973	0.101	0.103	0.0850 to 0.115	97.3	70.0 to 130	3.73	20.0
BD02870	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0980	0.102	0.103	0.0850 to 0.115	98.0	70.0 to 130	4.00	20.0
BD02870	Boron, Total	mg/L	-0.000191	0.0650	1.00	0.985	0.989	0.991	0.850 to 1.15	98.5	70.0 to 130	0.405	20.0
BD02870	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0988	0.101	0.104	0.0850 to 0.115	98.8	70.0 to 130	2.20	20.0
BD02870	Calcium, Total	mg/L	-0.00946	0.152	5.00	4.77	4.91	5.08	4.25 to 5.75	95.4	70.0 to 130	2.89	20.0
BD02870	Chloride	mg/L	0.0657	1.00	10.0	10.6	10.7	10.6	9.00 to 11.0	106	80.0 to 120	0.939	20.0
BD02870	Chromium, Total	mg/L	0.0000238	0.000440	0.100	0.100	0.103	0.101	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD02870	Cobalt, Total	mg/L	-0.0000027	0.000147	0.100	0.103	0.106	0.105	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD02870	Fluoride	mg/L	0.017	0.125	2.50	2.60	2.58	2.63	2.25 to 2.75	104	80.0 to 120	0.772	20.0
BD02870	Iron, Total	mg/L	-0.000327	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD02870	Lead, Total	mg/L	0.0000008	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD02870	Lithium, Total	mg/L	0.000425	0.0154	0.200	0.201	0.196	0.188	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD02870	Magnesium, Total	mg/L	0.00370	0.0462	5.00	4.94	4.93	4.94	4.25 to 5.75	98.8	70.0 to 130	0.203	20.0
BD02870	Manganese, Total	mg/L	0.0000029	0.00033	0.100	0.102	0.105	0.104	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD02870	Mercury, Total by CVAA	mg/L	-7.000E-05	0.000500	0.0040	0.00328	0.00382	0.00379	0.00340 to 0.00460	82.0	70.0 to 130	15.2	20.0
BD02870	Molybdenum, Total	mg/L	0.0000025	0.0002	0.100	0.0992	0.104	0.103	0.0850 to 0.115	99.2	70.0 to 130	4.72	20.0
BD02870	Potassium, Total	mg/L	0.00851	0.367	10.0	10.2	10.4	10.3	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BD02870	Selenium, Total	mg/L	0.0000792	0.00100	0.100	0.100	0.102	0.103	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD02870	Silicon, Total	mg/L	0.00185	0.0440	1.00	0.991	0.992	1.00	0.850 to 1.15	99.1	70.0 to 130	0.101	20.0
BD02870	Sodium, Total	mg/L	0.00110	0.0880	5.00	4.99	4.84	4.66	4.25 to 5.75	99.8	70.0 to 130	3.05	20.0
BD02870	Sulfate	mg/L	-0.108	2.0	20.0	20.2	20.4	20.1	18.0 to 22.0	101	80.0 to 120	0.985	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/7/23 15:00

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BD02870

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BD02870	Thallium, Total	mg/L	0.0000036	0.000147	0.100	0.103	0.101	0.105	0.0850 to 0.115		103	70.0 to 130		1.96	20.0
BD02870	Total Organic Carbon	mg/L	0.00607	1.00	10.0	10.1	10.2	26.2			101	80.0 to 120		0.985	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 2/7/23 15:00

Customer ID:

Delivery Date: 2/8/23 10:10

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BD02870

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD02870	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.99	-0.010	1.98	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD02869	Solids, Dissolved	mg/L	1.00	25.0			259	53.0	40.0 to 60.0			0.387	10.0

Comments:

Definitions

Project Number: WMWGASAP_1396

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.
C	Analyte was verified by re-analysis.
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
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		Anthony Goggins
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-16V	01/24/2023	10:40	6	Groundwater		BD01855	<input checked="" type="checkbox"/>
MW-29H	01/24/2023	14:08	6	Groundwater		BD01856	<input checked="" type="checkbox"/>
MW-17V	01/25/2023	11:17	6	Groundwater		BD01857	<input checked="" type="checkbox"/>
MW-7	01/25/2023	13:20	6	Groundwater		BD01858	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Brian Allen</i>	01/26/2023 08:42

SmarTroll ID	7586-41446-5-5	Cooler Temp	0.4 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-37V	01/24/2023	10:38	6	Groundwater		BD01859	<input checked="" type="checkbox"/>
MW-15R	01/24/2023	12:30	6	Groundwater		BD01860	<input checked="" type="checkbox"/>
MW-31VR	01/24/2023	16:20	6	Groundwater		BD01861	<input checked="" type="checkbox"/>
MW-9	01/25/2023	10:30	6	Groundwater		BD01862	<input checked="" type="checkbox"/>
MW-8	01/25/2023	12:30	6	Groundwater		BD01863	<input checked="" type="checkbox"/>
MW-11	01/25/2023	14:55	6	Groundwater		BD01864	<input checked="" type="checkbox"/>
FB-1	01/25/2023	15:35	5	Field Blank		BD01865	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Berkstein</i>	01/26/2023 08:55

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.1 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: MW-17SV: NO3/NO2; TOC received out of temp. Will re-collect. BC 01/30/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-20V	01/24/2023	10:12	6	Groundwater		BD01845	<input checked="" type="checkbox"/>
MW-20SV	01/24/2023	11:32	6	Groundwater		BD01846	<input checked="" type="checkbox"/>
MW-20SV dup	01/24/2023	11:32	6	Sample Duplicate		BD01847	<input checked="" type="checkbox"/>
MW-20	01/24/2023	12:32	6	Groundwater		BD01848	<input checked="" type="checkbox"/>
MW-18	01/24/2023	13:32	6	Groundwater		BD01849	<input checked="" type="checkbox"/>
MW-17SV	01/24/2023	14:23	6	Groundwater		BD01850	<input checked="" type="checkbox"/>
FB-2	01/24/2023	15:15	5	Field Blank		BD01851	<input checked="" type="checkbox"/>
MW-33V	01/25/2023	10:16	6	Groundwater		BD01852	<input checked="" type="checkbox"/>
MW-36V	01/25/2023	12:08	6	Groundwater		BD01853	<input checked="" type="checkbox"/>
MW-19	01/25/2023	15:05	6	Groundwater		BD01854	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Bushie Carter</i>	01/26/2023 08:58

SmarTroll ID	7586-41443-5-2	Cooler Temp	0.6 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-16	01/30/2023	12:14	6	Groundwater		BD02443	<input checked="" type="checkbox"/>
MW-28H	01/30/2023	14:02	6	Groundwater		BD02444	<input checked="" type="checkbox"/>
MW-23D	01/31/2023	08:19	6	Groundwater		BD02445	<input checked="" type="checkbox"/>
MW-23S	01/31/2023	10:55	6	Groundwater		BD02446	<input checked="" type="checkbox"/>
MW-30H	01/31/2023	14:43	6	Groundwater		BD02447	<input checked="" type="checkbox"/>
MW-13	02/01/2023	14:49	6	Groundwater		BD02448	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
		02/02/2023 09:03

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.3 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1396	pH Strip ID	10429-60252-10-8



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 Metals 500 mL	3 Hg 250 mL	5 TDS/Alkalinity 500 mL	7 N/A	N/A
	2 Dissolved Metals 500 mL	4 Nitrite, Nitrate; TOC 250 mL	6 Anions 500 mL	8 N/A	N/A
Comments	<input type="text"/>				

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-17	01/30/2023	12:36	6	Groundwater		BD02456	<input checked="" type="checkbox"/>
MW-34V	01/31/2023	10:23	6	Groundwater		BD02457	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Burke</i>	02/02/2023 09:10

SmarTroll ID	7586-41446-5-5	Cooler Temp	0.9 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-14	01/31/2023	14:45	6	Groundwater		BD02449	<input checked="" type="checkbox"/>
MW-42	02/01/2023	12:00	6	Groundwater		BD02450	<input checked="" type="checkbox"/>
MW-42 Dup	02/01/2023	12:00	6	Sample Duplicate		BD02451	<input checked="" type="checkbox"/>
FB-3	02/01/2023	12:45	5	Field Blank		BD02452	<input checked="" type="checkbox"/>
MW-40	02/01/2023	13:35	6	Groundwater		BD02453	<input checked="" type="checkbox"/>
MW-41	02/01/2023	14:40	6	Groundwater		BD02454	<input checked="" type="checkbox"/>
MW-38	02/01/2023	15:55	6	Groundwater		BD02455	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Brooks Dyer</i>	02/02/2023 09:04

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.7 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: MW-17SV nitrate/nitrite TOC collected only for resample

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-5	02/06/2023	11:55	6	Groundwater		BD02851	<input checked="" type="checkbox"/>
MW-5 dup	02/06/2023	11:55	6	Sample Duplicate		BD02852	<input checked="" type="checkbox"/>
MW-22	02/06/2023	12:54	6	Groundwater		BD02853	<input checked="" type="checkbox"/>
MW-21	02/06/2023	13:39	6	Groundwater		BD02854	<input checked="" type="checkbox"/>
MW-6	02/06/2023	14:40	6	Groundwater		BD02855	<input checked="" type="checkbox"/>
FB-4	02/06/2023	15:00	5	Field Blank		BD02856	<input checked="" type="checkbox"/>
MW-32V	02/07/2023	09:33	6	Groundwater		BD02857	<input checked="" type="checkbox"/>
MW-17SV	02/07/2023	11:30	1	Groundwater		BD02858	<input checked="" type="checkbox"/>
MW-35V	02/07/2023	12:20	6	Groundwater		BD02859	<input checked="" type="checkbox"/>
MW-39	02/07/2023	14:12	6	Groundwater		BD02860	<input checked="" type="checkbox"/>
EB-1	02/07/2023	14:45	5	Equipment Blank		BD02861	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Burke Catron</i>	02/08/2023 09:15

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.0 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-12	02/06/2023	11:38	6	Groundwater		BD02862	<input checked="" type="checkbox"/>
MW-10	02/06/2023	13:15	6	Groundwater		BD02863	<input checked="" type="checkbox"/>
MW-27	02/06/2023	15:10	6	Groundwater		BD02864	<input checked="" type="checkbox"/>
MW-27 Dup	02/06/2023	15:10	6	Sample Duplicate		BD02865	<input checked="" type="checkbox"/>
MW-26	02/07/2023	10:23	6	Groundwater		BD02866	<input checked="" type="checkbox"/>
MW-3	02/07/2023	12:50	6	Groundwater		BD02867	<input checked="" type="checkbox"/>
MW-4	02/07/2023	14:05	6	Groundwater		BD02868	<input checked="" type="checkbox"/>
MW-4 Dup	02/07/2023	14:05	6	Sample Duplicate		BD02869	<input checked="" type="checkbox"/>
FB-5	02/07/2023	15:00	5	Field Blank		BD02870	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>B. Cator</i>	02/08/2023 09:15

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.8 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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: Ms/MSD collected @ MW-7

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-16V	01/24/2023	10:40	1	Groundwater		BD01876	<input checked="" type="checkbox"/>
MW-29H	01/24/2023	14:08	1	Groundwater		BD01877	<input checked="" type="checkbox"/>
MW-17V	01/25/2023	11:17	1	Groundwater		BD01878	<input checked="" type="checkbox"/>
MW-7	01/25/2023	13:20	3	Groundwater		BD01879	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By <i>Anthony Goggins</i>	Received By <i>Brian Gator</i>	Date/Time 01/26/2023 08:42

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-37V	01/24/2023	10:38	1	Groundwater		BD01880	<input checked="" type="checkbox"/>
MW-15R	01/24/2023	12:30	1	Groundwater		BD01881	<input checked="" type="checkbox"/>
MW-31VR	01/24/2023	16:20	1	Groundwater		BD01882	<input checked="" type="checkbox"/>
MW-9	01/25/2023	10:30	1	Groundwater		BD01883	<input checked="" type="checkbox"/>
MW-8	01/25/2023	12:30	1	Groundwater		BD01884	<input checked="" type="checkbox"/>
MW-11	01/25/2023	14:55	1	Groundwater		BD01885	<input checked="" type="checkbox"/>
FB-1	01/25/2023	15:35	1	Field Blank		BD01886	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Berkstein</i>	01/26/2023 08:55

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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-20V

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-20V	01/24/2023	10:12	3	Groundwater		BD01866	<input checked="" type="checkbox"/>
MW-20SV	01/24/2023	11:32	1	Groundwater		BD01867	<input checked="" type="checkbox"/>
MW-20SV dup	01/24/2023	11:32	1	Sample Duplicate		BD01868	<input checked="" type="checkbox"/>
MW-20	01/24/2023	12:32	1	Groundwater		BD01869	<input checked="" type="checkbox"/>
MW-18	01/24/2023	13:32	1	Groundwater		BD01870	<input checked="" type="checkbox"/>
MW-17SV	01/24/2023	14:23	1	Groundwater		BD01871	<input checked="" type="checkbox"/>
FB-2	01/24/2023	15:15	1	Field Blank		BD01872	<input checked="" type="checkbox"/>
MW-33V	01/25/2023	10:16	1	Groundwater		BD01873	<input checked="" type="checkbox"/>
MW-36V	01/25/2023	12:08	1	Groundwater		BD01874	<input checked="" type="checkbox"/>
MW-19	01/25/2023	15:05	1	Groundwater		BD01875	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>M. Dyer</i>	<i>Bushie Ador</i>	01/26/2023 08:59

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		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	pH Check
MW-16	01/30/2023	12:14	1	Groundwater		BD02458	<input checked="" type="checkbox"/>
MW-28H	01/30/2023	14:02	1	Groundwater		BD02459	<input checked="" type="checkbox"/>
MW-23D	01/31/2023	08:19	1	Groundwater		BD02460	<input checked="" type="checkbox"/>
MW-23S	01/31/2023	10:55	1	Groundwater		BD02461	<input checked="" type="checkbox"/>
MW-30H	01/31/2023	14:43	1	Groundwater		BD02462	<input checked="" type="checkbox"/>
MW-13	02/01/2023	14:49	1	Groundwater		BD02463	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Bush Carter</i>	02/02/2023 09:03

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	pH Check
MW-17	01/30/2023	12:36	1	Groundwater		BD02471	<input checked="" type="checkbox"/>
MW-34V	01/31/2023	10:23	1	Groundwater		BD02472	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By <i>Anthony Goggins</i>	Received By <i>Dustin Brooks</i>	Date/Time 02/02/2023 09:03
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 @ MW-38

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-14	01/31/2023	14:45	1	Groundwater		BD02464	<input checked="" type="checkbox"/>
MW-42	02/01/2023	12:00	1	Groundwater		BD02465	<input checked="" type="checkbox"/>
MW-42 Dup	02/01/2023	12:00	1	Sample Duplicate		BD02466	<input checked="" type="checkbox"/>
FB-3	02/01/2023	12:45	1	Field Blank		BD02467	<input checked="" type="checkbox"/>
MW-40	02/01/2023	13:35	1	Groundwater		BD02468	<input checked="" type="checkbox"/>
MW-41	02/01/2023	14:40	1	Groundwater		BD02469	<input checked="" type="checkbox"/>
MW-38	02/01/2023	15:55	3	Groundwater		BD02470	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>H. AB</i>	<i>Brooks Dyer</i>	02/02/2023 09:04

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		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	pH Check
MW-5	02/06/2023	11:55	1	Groundwater		BD02871	<input checked="" type="checkbox"/>
MW-5 dup	02/06/2023	11:55	1	Sample Duplicate		BD02872	<input checked="" type="checkbox"/>
MW-22	02/06/2023	12:54	1	Groundwater		BD02873	<input checked="" type="checkbox"/>
MW-21	02/06/2023	13:39	1	Groundwater		BD02874	<input checked="" type="checkbox"/>
MW-6	02/06/2023	14:40	1	Groundwater		BD02875	<input checked="" type="checkbox"/>
FB-4	02/06/2023	15:00	1	Field Blank		BD02876	<input checked="" type="checkbox"/>
MW-32V	02/07/2023	09:33	1	Groundwater		BD02877	<input checked="" type="checkbox"/>
MW-35V	02/07/2023	12:20	1	Groundwater		BD02878	<input checked="" type="checkbox"/>
MW-39	02/07/2023	14:12	1	Groundwater		BD02879	<input checked="" type="checkbox"/>
EB-1	02/07/2023	14:45	1	Equipment Blank		BD02880	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>M. Dyer</i>	<i>B. Gentry</i>	02/08/2023 09:15

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-12	02/06/2023	11:38	1	Groundwater		BD02881	<input checked="" type="checkbox"/>
MW-10	02/06/2023	13:15	1	Groundwater		BD02882	<input checked="" type="checkbox"/>
MW-27	02/06/2023	15:10	1	Groundwater		BD02883	<input checked="" type="checkbox"/>
MW-27 Dup	02/06/2023	15:10	1	Sample Duplicate		BD02884	<input checked="" type="checkbox"/>
MW-26	02/07/2023	10:23	1	Groundwater		BD02885	<input checked="" type="checkbox"/>
MW-3	02/07/2023	12:50	1	Groundwater		BD02886	<input checked="" type="checkbox"/>
MW-4	02/07/2023	14:05	1	Groundwater		BD02887	<input checked="" type="checkbox"/>
MW-4 Dup	02/07/2023	14:05	1	Sample Duplicate		BD02888	<input checked="" type="checkbox"/>
FB-5	02/07/2023	15:00	1	Field Blank		BD02889	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>B. Cotton</i>	02/08/2023 09:15

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1396	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

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 &RXQW\ 5RDG *6&
&DOHUD \$/

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Alabama Power
General Test Laboratory
744 County Road 87, GSC
Calera, AL 35040
(205) 4-6001



May 02, 2023

Dear Dustin Brooks,

Enclosed are the analytical results on April 14, 2023 sample(s) received by All results reported here in our report noted in the Alsaburra report by Masunadst an asterisk conform to the most current applicable TNI/NELAC of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department
Expiration: 30, 2023

If you have questions concerning this report, please feel free

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2023.05.02
09:32:37 -05'00'

Supervision:



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.

3DJH RI



Case Narrative

Total Metals ICP

Gaston Ash Pond

WMWGASAP_1405

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD07384	753735	WMWGASAP_1405
BD07385	753735	WMWGASAP_1405
BD07386	753735	WMWGASAP_1405
BD07387	753735	WMWGASAP_1405
BD07388	753735	WMWGASAP_1405
BD07389	753735	WMWGASAP_1405
BD07390	753735	WMWGASAP_1405

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.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP 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.

Dissolved Metals ICP

Gaston Ash Pond

WMWGASAP_1405

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD07385	753737	WMWGASAP_1405
BD07387	753737	WMWGASAP_1405
BD07388	753737	WMWGASAP_1405
BD07389	753737	WMWGASAP_1405
BD07390	753737	WMWGASAP_1405

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:

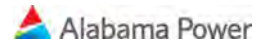
Revision 5

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.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP 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.

\$ O D E D P D 3 R Z H U
 * H Q H U D O 7 H V W / D E R U D W R U \\
 & R X Q W \ 5 R D G * 6 &
 & D O H U D \$ /

Certificate Of Analysis



Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 4/10/23 12:34
Customer ID:
Submittal Date: 4/14/23 10:19

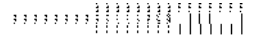
Laboratory ID Number: BD07384

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/27/23 13:14	4/27/23 13:36		1.015	2.93	mg/L	0.030000	0.1015	
* Lithium, Total	4/27/23 13:14	4/27/23 13:36		1.015	0.0304	mg/L	0.007105	0.01999956	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/10/23 12:31	4/10/23 12:31			945.91	uS/cm			FA
pH	4/10/23 12:31	4/10/23 12:31			7.97	SU			FA
Temperature	4/10/23 12:31	4/10/23 12:31			21.05	C			FA
Turbidity	4/10/23 12:31	4/10/23 12:31			0.67	NTU			FA
Sulfide	4/10/23 12:31	4/10/23 12:31			1	mg/L			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.

\$ODEDPD 3RZHU
 *HQHUDO 7HVW /DERUDWRU **Batch QC Summary**
 &RXQW\ 5RDG *6&
 &DOHUD \$/



Customer Account: WMWGASAP
Sample Date: 4/10/23 12:34
Customer ID:
Delivery Date: 4/14/23 10:19

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BD07384

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD07390	Boron, Total	mg/L	0.000296	0.0650	1.00	1.02	1.00	0.985	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD07390	Lithium, Total	mg/L	0.000272	0.0154	0.200	0.196	0.194	0.191	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

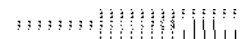
Location Code: WMWGASAP
Collected: 4/11/23 10:45
Customer ID:
Submittal Date: 4/14/23 10:22

Laboratory ID Number: BD07385

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/27/23 13:14	4/27/23 13:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Lithium, Total	4/27/23 13:14	4/27/23 13:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/27/23 10:32	4/27/23 11:25		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Lithium, Dissolved	4/27/23 10:32	4/27/23 11:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	4/11/23 10:44	4/11/23 10:44			398.21	uS/cm			FA
pH	4/11/23 10:44	4/11/23 10:44			7.71	SU			FA
Temperature	4/11/23 10:44	4/11/23 10:44			21.59	C			FA
Turbidity	4/11/23 10:44	4/11/23 10:44			1.9	NTU			FA
Sulfide	4/11/23 10:44	4/11/23 10:44			0	mg/L			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.



Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/11/23 10:45
Customer ID:
Delivery Date: 4/14/23 10:22

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BD07385

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD07390	Boron, Dissolved	mg/L	0.000112	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD07390	Boron, Total	mg/L	0.000296	0.0650	1.00	1.02	1.00	0.985	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD07390	Lithium, Dissolved	mg/L	0.000654	0.0154	0.200	0.194	0.194	0.191	0.170 to 0.230	97.0	70.0 to 130	0.00	20.0
BD07390	Lithium, Total	mg/L	0.000272	0.0154	0.200	0.196	0.194	0.191	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

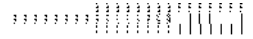
Location Code: WMWGASAP
Collected: 4/10/23 13:26
Customer ID:
Submittal Date: 4/14/23 10:22

Laboratory ID Number: BD07386

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	4/27/23 13:14	4/27/23 13:43		1.015	0.203	mg/L	0.030000	0.1015		
* Lithium, Total	4/27/23 13:14	4/27/23 13:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
Analytical Method: Field Measurements		Analyst: DKG								
Conductivity	4/10/23 13:23	4/10/23 13:23			438.34	uS/cm			FA	
pH	4/10/23 13:23	4/10/23 13:23			8.19	SU			FA	
Temperature	4/10/23 13:23	4/10/23 13:23			21.34	C			FA	
Turbidity	4/10/23 13:23	4/10/23 13:23			1.68	NTU			FA	
Sulfide	4/10/23 13:23	4/10/23 13:23			1.0	mg/L			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.



Customer Account: WMWGASAP
Sample Date: 4/10/23 13:26
Customer ID:
Delivery Date: 4/14/23 10:22

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BD07386

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD07390	Boron, Total	mg/L	0.000296	0.0650	1.00	1.02	1.00	0.985	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD07390	Lithium, Total	mg/L	0.000272	0.0154	0.200	0.196	0.194	0.191	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

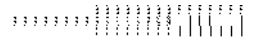
Location Code: WMWGASAP
Collected: 4/11/23 09:08
Customer ID:
Submittal Date: 4/14/23 10:22

Laboratory ID Number: BD07387

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/27/23 13:14	4/27/23 13:46		1.015	0.133	mg/L	0.030000	0.1015	
* Lithium, Total	4/27/23 13:14	4/27/23 13:46		1.015	0.0139	mg/L	0.007105	0.01999956	J
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/27/23 10:32	4/27/23 11:29		1.015	0.126	mg/L	0.030000	0.1015	
* Lithium, Dissolved	4/27/23 10:32	4/27/23 11:29		1.015	0.0135	mg/L	0.007105	0.01999956	J
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/11/23 09:05	4/11/23 09:05			927.84	uS/cm			FA
pH	4/11/23 09:05	4/11/23 09:05			8.13	SU			FA
Temperature	4/11/23 09:05	4/11/23 09:05			18.66	C			FA
Turbidity	4/11/23 09:05	4/11/23 09:05			1.96	NTU			FA
Sulfide	4/11/23 09:05	4/11/23 09:05			3.0	mg/L			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.



Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/11/23 09:08
Customer ID:
Delivery Date: 4/14/23 10:22

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BD07387

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD07390	Boron, Dissolved	mg/L	0.000112	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD07390	Boron, Total	mg/L	0.000296	0.0650	1.00	1.02	1.00	0.985	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD07390	Lithium, Dissolved	mg/L	0.000654	0.0154	0.200	0.194	0.194	0.191	0.170 to 0.230	97.0	70.0 to 130	0.00	20.0
BD07390	Lithium, Total	mg/L	0.000272	0.0154	0.200	0.196	0.194	0.191	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

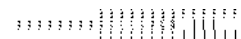
Location Code: WMWGASAP
Collected: 4/11/23 13:36
Customer ID:
Submittal Date: 4/14/23 10:22

Laboratory ID Number: BD07388

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/27/23 13:14	4/27/23 13:49		1.015	4.47	mg/L	0.030000	0.1015	
* Lithium, Total	4/27/23 13:14	4/27/23 13:49		1.015	0.116	mg/L	0.007105	0.01999956	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/27/23 10:32	4/27/23 11:32		1.015	4.40	mg/L	0.030000	0.1015	
* Lithium, Dissolved	4/27/23 10:32	4/27/23 11:32		1.015	0.113	mg/L	0.007105	0.01999956	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/11/23 13:33	4/11/23 13:33			1098.43	uS/cm			FA
pH	4/11/23 13:33	4/11/23 13:33			7.80	SU			FA
Temperature	4/11/23 13:33	4/11/23 13:33			20.18	C			FA
Turbidity	4/11/23 13:33	4/11/23 13:33			5.82	NTU			FA
Sulfide	4/11/23 13:33	4/11/23 13:33			0	mg/L			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.



Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/11/23 13:36
Customer ID:
Delivery Date: 4/14/23 10:22

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BD07388

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD07390	Boron, Dissolved	mg/L	0.000112	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD07390	Boron, Total	mg/L	0.000296	0.0650	1.00	1.02	1.00	0.985	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD07390	Lithium, Dissolved	mg/L	0.000654	0.0154	0.200	0.194	0.194	0.191	0.170 to 0.230	97.0	70.0 to 130	0.00	20.0
BD07390	Lithium, Total	mg/L	0.000272	0.0154	0.200	0.196	0.194	0.191	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

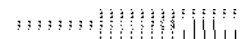
Location Code: WMWGASAP
Collected: 4/12/23 09:27
Customer ID:
Submittal Date: 4/14/23 10:22

Laboratory ID Number: BD07389

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/27/23 13:14	4/27/23 13:52		1.015	3.49	mg/L	0.030000	0.1015	
* Lithium, Total	4/27/23 13:14	4/27/23 13:52		1.015	1.19	mg/L	0.007105	0.01999956	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/27/23 10:32	4/27/23 11:35		1.015	3.45	mg/L	0.030000	0.1015	
* Lithium, Dissolved	4/27/23 10:32	4/27/23 11:35		1.015	1.19	mg/L	0.007105	0.01999956	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/12/23 09:24	4/12/23 09:24			2187.81	uS/cm			FA
pH	4/12/23 09:24	4/12/23 09:24			9.24	SU			FA
Temperature	4/12/23 09:24	4/12/23 09:24			19.76	C			FA
Turbidity	4/12/23 09:24	4/12/23 09:24			7.28	NTU			FA
Sulfide	4/12/23 09:24	4/12/23 09:24			0	mg/L			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.



Customer Account: WMWGASAP
Sample Date: 4/12/23 09:27
Customer ID:
Delivery Date: 4/14/23 10:22

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BD07389

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD07390	Boron, Dissolved	mg/L	0.000112	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD07390	Boron, Total	mg/L	0.000296	0.0650	1.00	1.02	1.00	0.985	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD07390	Lithium, Dissolved	mg/L	0.000654	0.0154	0.200	0.194	0.194	0.191	0.170 to 0.230	97.0	70.0 to 130	0.00	20.0
BD07390	Lithium, Total	mg/L	0.000272	0.0154	0.200	0.196	0.194	0.191	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

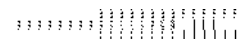
Location Code: WMWGASAP
Collected: 4/12/23 13:38
Customer ID:
Submittal Date: 4/14/23 10:22

Laboratory ID Number: BD07390

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	4/27/23 13:14	4/27/23 13:55		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Lithium, Total	4/27/23 13:14	4/27/23 13:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	4/27/23 10:32	4/27/23 11:38		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Lithium, Dissolved	4/27/23 10:32	4/27/23 11:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/12/23 13:35	4/12/23 13:35			101.36	uS/cm			FA
pH	4/12/23 13:35	4/12/23 13:35			6.38	SU			FA
Temperature	4/12/23 13:35	4/12/23 13:35			18.58	C			FA
Turbidity	4/12/23 13:35	4/12/23 13:35			3.16	NTU			FA
Sulfide	4/12/23 13:35	4/12/23 13:35			0	mg/L			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.



Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 4/12/23 13:38
Customer ID:
Delivery Date: 4/14/23 10:22

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BD07390

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD07390	Boron, Dissolved	mg/L	0.000112	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD07390	Boron, Total	mg/L	0.000296	0.0650	1.00	1.02	1.00	0.985	0.850 to 1.15	102	70.0 to 130	1.98	20.0
BD07390	Lithium, Dissolved	mg/L	0.000654	0.0154	0.200	0.194	0.194	0.191	0.170 to 0.230	97.0	70.0 to 130	0.00	20.0
BD07390	Lithium, Total	mg/L	0.000272	0.0154	0.200	0.196	0.194	0.191	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

\$ O D E D P D 3 R Z H U
 * H Q H U D O 7 H V W / D E R U D W R U \
 & R X Q W \ 5 R D G * 6 &
 & D O H U D \$ /
 (2 0 6 5 0 4 - 6 0 0 1

Definitions



Project Number: WMWGASAP_1405

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
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.
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	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Dissolved Metals not collected at MW-35V
Lithium and Boron only per customer request. BC 04/14/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-35V	04/10/2023	13:26	1	Groundwater		BD07386	<input checked="" type="checkbox"/>
MW-36V	04/11/2023	09:08	2	Groundwater		BD07387	<input checked="" type="checkbox"/>
MW-20	04/11/2023	13:36	2	Groundwater		BD07388	<input checked="" type="checkbox"/>
MW-17	04/12/2023	09:27	2	Groundwater		BD07389	<input checked="" type="checkbox"/>
MW-42	04/12/2023	13:38	2	Groundwater		BD07390	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		04/12/2023 15:29
		04/13/2023 10:31

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1405	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Metals	500 mL	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Dissolved Metals not collected @ MW34V
 Lithium and Boron only per customer request. BC 04/14/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-34V	04/10/2023	12:34	1	Groundwater		BD07384	<input checked="" type="checkbox"/>
MW-19	04/11/2023	10:45	2	Groundwater		BD07385	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		04/13/2023 10:32

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1405	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

3DJH RI

March 21, 2023

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 2023. 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.

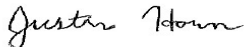
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

Greensburg, PA - Revision 1 - This report replaces the March 17, 2023 report. This project was revised on March 21, 2023 to include Rad QC sheets.

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

Sincerely,



Justin P. Horn for
Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30562855001	BD01866 MW-20V	Water	01/24/23 10:12	02/15/23 10:00
30562855002	BD01866 MW-20V MS	Water	01/24/23 10:12	02/15/23 10:00
30562855003	BD01866 MW-20V MSD	Water	01/24/23 10:12	02/15/23 10:00
30562855004	BD01867 MW-20SV	Water	01/24/23 11:32	02/15/23 10:00
30562855005	BD01868 MW-20SV Dup	Water	01/24/23 11:32	02/15/23 10:00
30562855006	BD01869 MW-20	Water	01/24/23 12:32	02/15/23 10:00
30562855007	BD01870 MW-18	Water	01/24/23 13:32	02/15/23 10:00
30562855008	BD01871 MW-17SV	Water	01/24/23 14:23	02/15/23 10:00
30562855009	BD01872 FB-2	Water	01/24/23 15:15	02/15/23 10:00
30562855010	BD01873 MW-33V	Water	01/25/23 10:16	02/15/23 10:00
30562855011	BD01874 MW-36V	Water	01/25/23 12:08	02/15/23 10:00
30562855012	BD01875 MW-19	Water	01/25/23 15:05	02/15/23 10:00
30562855013	BD01876 MW-16V	Water	01/24/23 10:40	02/15/23 10:00
30562855014	BD01877 MW-29H	Water	01/24/23 14:08	02/15/23 10:00
30562855015	BD01878 MW-17V	Water	01/25/23 11:17	02/15/23 10:00
30562855016	BD01879 MW-7	Water	01/25/23 13:20	02/15/23 10:00
30562855017	BD01879 MW-7 MS	Water	01/25/23 13:20	02/15/23 10:00
30562855018	BD01879 MW-7 MSD	Water	01/25/23 13:20	02/15/23 10:00
30562855019	BD01880 MW-37V	Water	01/24/23 10:38	02/15/23 10:00
30562855020	BD01881 MW-15R	Water	01/24/23 12:30	02/15/23 10:00
30562855021	BD01882 MW-31VR	Water	01/24/23 16:20	02/15/23 10:00
30562855022	BD01883 MW-9	Water	01/25/23 10:30	02/15/23 10:00
30562855023	BD01884 MW-8	Water	01/25/23 12:30	02/15/23 10:00
30562855024	BD01885 MW-11	Water	01/25/23 14:55	02/15/23 10:00
30562855025	BD01886 FB-1	Water	01/25/23 15:35	02/15/23 10:00
30562855026	BD02458 MW-16	Water	01/30/23 12:14	02/15/23 10:00
30562855027	BD02459 MW-28H	Water	01/30/23 14:02	02/15/23 10:00
30562855028	BD02460 MW-23D	Water	01/31/23 08:19	02/15/23 10:00
30562855029	BD02461 MW-23S	Water	01/31/23 10:55	02/15/23 10:00
30562855030	BD02462 MW-30H	Water	01/31/23 14:43	02/15/23 10:00
30562855031	BD02463 MW-13	Water	02/01/23 14:49	02/15/23 10:00
30562855032	BD02464 MW-14	Water	01/31/23 14:45	02/15/23 10:00
30562855033	BD02465 MW-42	Water	02/01/23 12:00	02/15/23 10:00
30562855034	BD024656 MW-42 Dup	Water	02/01/23 12:00	02/15/23 10:00
30562855035	BD02467 FB-3	Water	02/01/23 12:45	02/15/23 10:00
30562855036	BD02468 MW-40	Water	02/01/23 13:35	02/15/23 10:00
30562855037	BD02469 MW-41	Water	02/01/23 14:40	02/15/23 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30562855038	BD02470 MW-38	Water	02/01/23 15:55	02/15/23 10:00
30562855039	BD02470 MW-38 MS	Water	02/01/23 15:55	02/15/23 10:00
30562855040	BD02470 MW-38 MSD	Water	02/01/23 15:55	02/15/23 10:00
30562855041	BD02471 MW-17	Water	01/30/23 12:36	02/15/23 10:00
30562855042	BD02472 MW-34V	Water	01/31/23 10:23	02/15/23 10:00
30562855043	BD02871 MW-5	Water	02/06/23 11:55	02/15/23 10:00
30562855044	BD02872 MW-5 Dup	Water	02/06/23 11:55	02/15/23 10:00
30562855045	BD02873 MW-22	Water	02/06/23 12:54	02/15/23 10:00
30562855046	BD02874 MW-21	Water	02/06/23 13:39	02/15/23 10:00
30562855047	BD02875 MW-6	Water	02/06/23 14:40	02/15/23 10:00
30562855048	BD02876 FB-4	Water	02/06/23 15:00	02/15/23 10:00
30562855049	BD02877 MW-32V	Water	02/07/23 09:33	02/15/23 10:00
30562855050	BD02878 MW-35V	Water	02/07/23 12:20	02/15/23 10:00
30562855051	BD02879 MW-39	Water	02/07/23 14:12	02/15/23 10:00
30562855052	BD02880 EB-1	Water	02/07/23 14:45	02/15/23 10:00
30562855053	BD02881 MW-12	Water	02/06/23 11:38	02/15/23 10:00
30562855054	BD02882 MW-10	Water	02/06/23 13:15	02/15/23 10:00
30562855055	BD02883 MW-27	Water	02/06/23 15:10	02/15/23 10:00
30562855056	BD02884 MW-27 Dup	Water	02/06/23 15:10	02/15/23 10:00
30562855057	BD02885 MW-26	Water	02/07/23 10:23	02/15/23 10:00
30562855058	BD02886 MW-3	Water	02/07/23 12:50	02/15/23 10:00
30562855059	BD02887 MW-4	Water	02/07/23 14:05	02/15/23 10:00
30562855060	BD02888 MW-4 Dup	Water	02/07/23 14:05	02/15/23 10:00
30562855061	BD02889 FB-5	Water	02/07/23 15:00	02/15/23 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30562855001	BD01866 MW-20V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855002	BD01866 MW-20V MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30562855003	BD01866 MW-20V MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30562855004	BD01867 MW-20SV	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855005	BD01868 MW-20SV Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855006	BD01869 MW-20	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855007	BD01870 MW-18	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855008	BD01871 MW-17SV	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855009	BD01872 FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855010	BD01873 MW-33V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855011	BD01874 MW-36V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855012	BD01875 MW-19	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855013	BD01876 MW-16V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30562855014	BD01877 MW-29H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855015	BD01878 MW-17V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855016	BD01879 MW-7	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855017	BD01879 MW-7 MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30562855018	BD01879 MW-7 MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30562855019	BD01880 MW-37V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855020	BD01881 MW-15R	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855021	BD01882 MW-31VR	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855022	BD01883 MW-9	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855023	BD01884 MW-8	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855024	BD01885 MW-11	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855025	BD01886 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855026	BD02458 MW-16	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30562855027	BD02459 MW-28H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855028	BD02460 MW-23D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855029	BD02461 MW-23S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855030	BD02462 MW-30H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855031	BD02463 MW-13	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855032	BD02464 MW-14	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855033	BD02465 MW-42	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855034	BD024656 MW-42 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855035	BD02467 FB-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855036	BD02468 MW-40	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855037	BD02469 MW-41	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855038	BD02470 MW-38	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855039	BD02470 MW-38 MS	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30562855040	BD02470 MW-38 MSD	EPA 9320	ZPC	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30562855041	BD02471 MW-17	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855042	BD02472 MW-34V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855043	BD02871 MW-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855044	BD02872 MW-5 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855045	BD02873 MW-22	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855046	BD02874 MW-21	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855047	BD02875 MW-6	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855048	BD02876 FB-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855049	BD02877 MW-32V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855050	BD02878 MW-35V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855051	BD02879 MW-39	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855052	BD02880 EB-1	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30562855053	BD02881 MW-12	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30562855054	BD02882 MW-10	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855055	BD02883 MW-27	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30562855056	BD02884 MW-27 Dup	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30562855057	BD02885 MW-26	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855058	BD02886 MW-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30562855059	BD02887 MW-4	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30562855060	BD02888 MW-4 Dup	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30562855061	BD02889 FB-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: March 21, 2023

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:

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PROJECT NARRATIVE

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: March 21, 2023

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:

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PROJECT NARRATIVE

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: March 21, 2023

General Information:

55 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.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01866 MW-20V **Lab ID: 30562855001** Collected: 01/24/23 10:12 Received: 02/15/23 10:00 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	2.02 ± 0.517 (0.271) C:93% T:NA	pCi/L	03/14/23 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.457U ± 0.312 (0.594) C:83% T:87%	pCi/L	02/23/23 12:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.48 ± 0.829 (0.865)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01866 MW-20V MS **Lab ID: 30562855002** Collected: 01/24/23 10:12 Received: 02/15/23 10:00 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	117.93 %REC ± NA (NA) C:NA T:NA	pCi/L	03/14/23 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	75.45 %REC ± NA (NA) C:NA T:NA	pCi/L	02/23/23 12:05	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01866 MW-20V MSD **Lab ID: 30562855003** Collected: 01/24/23 10:12 Received: 02/15/23 10:00 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	115.86 %REC 1.77RPD ± NA (NA) C:NA T:NA	pCi/L	03/14/23 18:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	68.96 %REC 8.98RPD ± NA (NA) C:NA T:NA	pCi/L	02/23/23 12:05	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01867 MW-20SV **Lab ID: 30562855004** Collected: 01/24/23 11:32 Received: 02/15/23 10:00 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	1.78 ± 0.490 (0.378) C:91% T:NA	pCi/L	03/14/23 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.919 ± 0.354 (0.537) C:90% T:96%	pCi/L	02/23/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.70 ± 0.844 (0.915)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01868 MW-20SV Dup **Lab ID: 30562855005** Collected: 01/24/23 11:32 Received: 02/15/23 10:00 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	1.22 ± 0.408 (0.357) C:78% T:NA	pCi/L	03/14/23 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.287U ± 0.266 (0.541) C:83% T:98%	pCi/L	02/23/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.51 ± 0.674 (0.898)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01869 MW-20 **Lab ID: 30562855006** Collected: 01/24/23 12:32 Received: 02/15/23 10:00 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	11.3 ± 1.88 (0.269) C:95% T:NA	pCi/L	03/14/23 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.552U ± 0.315 (0.567) C:86% T:88%	pCi/L	02/23/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	11.9 ± 2.20 (0.836)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01870 MW-18 **Lab ID: 30562855007** Collected: 01/24/23 13:32 Received: 02/15/23 10:00 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	0.754 ± 0.314 (0.350) C:81% T:NA	pCi/L	03/14/23 18:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.526U ± 0.318 (0.579) C:82% T:86%	pCi/L	02/23/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28 ± 0.632 (0.929)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01871 MW-17SV **Lab ID: 30562855008** Collected: 01/24/23 14:23 Received: 02/15/23 10:00 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	0.742 ± 0.333 (0.460) C:84% T:NA	pCi/L	03/14/23 19:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.831 ± 0.347 (0.536) C:85% T:88%	pCi/L	02/23/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.57 ± 0.680 (0.996)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01872 FB-2 **Lab ID: 30562855009** Collected: 01/24/23 15:15 Received: 02/15/23 10:00 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	0.122U ± 0.143 (0.290) C:95% T:NA	pCi/L	03/14/23 19:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.352U ± 0.285 (0.567) C:84% T:95%	pCi/L	02/23/23 12:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.474U ± 0.428 (0.857)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01873 MW-33V **Lab ID: 30562855010** Collected: 01/25/23 10:16 Received: 02/15/23 10:00 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	0.244U ± 0.197 (0.341) C:93% T:NA	pCi/L	03/14/23 19:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.825 ± 0.383 (0.648) C:86% T:86%	pCi/L	02/23/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07 ± 0.580 (0.989)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01874 MW-36V **Lab ID: 30562855011** Collected: 01/25/23 12:08 Received: 02/15/23 10:00 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	0.903 ± 0.308 (0.234) C:93% T:NA	pCi/L	03/14/23 20:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.166U ± 0.288 (0.628) C:84% T:76%	pCi/L	02/23/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07 ± 0.596 (0.862)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01875 MW-19 **Lab ID: 30562855012** Collected: 01/25/23 15:05 Received: 02/15/23 10:00 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	0.284U ± 0.198 (0.322) C:85% T:NA	pCi/L	03/14/23 20:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.342U ± 0.308 (0.622) C:79% T:89%	pCi/L	02/23/23 12:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.626U ± 0.506 (0.944)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01876 MW-16V **Lab ID: 30562855013** Collected: 01/24/23 10:40 Received: 02/15/23 10:00 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	2.44 ± 0.651 (0.414) C:78% T:NA	pCi/L	03/14/23 20:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.01 ± 0.377 (0.543) C:86% T:87%	pCi/L	02/23/23 12:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	3.45 ± 1.03 (0.957)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01877 MW-29H **Lab ID: 30562855014** Collected: 01/24/23 14:08 Received: 02/15/23 10:00 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	15.9 ± 2.63 (0.368) C:80% T:NA	pCi/L	03/14/23 19:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.90 ± 0.519 (0.518) C:86% T:88%	pCi/L	02/23/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	17.8 ± 3.15 (0.886)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01878 MW-17V **Lab ID: 30562855015** Collected: 01/25/23 11:17 Received: 02/15/23 10:00 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	10.3 ± 1.76 (0.245) C:91% T:NA	pCi/L	03/14/23 19:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	3.65 ± 0.877 (0.671) C:81% T:73%	pCi/L	02/23/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	14.0 ± 2.64 (0.916)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01879 MW-7 **Lab ID: 30562855016** Collected: 01/25/23 13:20 Received: 02/15/23 10:00 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	0.232U ± 0.178 (0.279) C:96% T:NA	pCi/L	03/14/23 19:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.426U ± 0.337 (0.664) C:76% T:90%	pCi/L	02/23/23 15:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.658U ± 0.515 (0.943)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01879 MW-7 MS **Lab ID: 30562855017** Collected: 01/25/23 13:20 Received: 02/15/23 10:00 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	102.65 %REC ± NA (NA) C:NA T:NA	pCi/L	03/14/23 19:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	61.31 %REC ± NA (NA) C:NA T:NA	pCi/L	02/23/23 15:23	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01879 MW-7 MSD **Lab ID: 30562855018** Collected: 01/25/23 13:20 Received: 02/15/23 10:00 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	99.22 %REC 3.40RPD ± NA (NA) C:NA T:NA	pCi/L	03/14/23 19:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	79.66 %REC 26.04RPD ± NA (NA) C:NA T:NA	pCi/L	02/23/23 15:23	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01880 MW-37V **Lab ID: 30562855019** Collected: 01/24/23 10:38 Received: 02/15/23 10:00 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	3.01 ± 0.734 (0.543) C:73% T:NA	pCi/L	03/14/23 19:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.812 ± 0.343 (0.535) C:79% T:97%	pCi/L	02/23/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.82 ± 1.08 (1.08)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01881 MW-15R **Lab ID: 30562855020** Collected: 01/24/23 12:30 Received: 02/15/23 10:00 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	0.281U ± 0.189 (0.303) C:88% T:NA	pCi/L	03/14/23 19:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.703 ± 0.332 (0.561) C:83% T:97%	pCi/L	02/23/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.984 ± 0.521 (0.864)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01882 MW-31VR **Lab ID: 30562855021** Collected: 01/24/23 16:20 Received: 02/15/23 10:00 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 ± 0.143 (0.256) C:87% T:NA	pCi/L	03/14/23 19:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.695 ± 0.320 (0.527) C:86% T:93%	pCi/L	02/23/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.846 ± 0.463 (0.783)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01883 MW-9 **Lab ID: 30562855022** Collected: 01/25/23 10:30 Received: 02/15/23 10:00 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	0.0656U ± 0.110 (0.242) C:87% T:NA	pCi/L	03/14/23 19:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.375U ± 0.324 (0.646) C:84% T:74%	pCi/L	02/23/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.441U ± 0.434 (0.888)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01884 MW-8 **Lab ID: 30562855023** Collected: 01/25/23 12:30 Received: 02/15/23 10:00 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	0.0436U ± 0.109 (0.264) C:94% T:NA	pCi/L	03/14/23 19:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.265U ± 0.269 (0.550) C:76% T:98%	pCi/L	02/23/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.309U ± 0.378 (0.814)	pCi/L	03/15/23 15:56	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01885 MW-11 **Lab ID: 30562855024** Collected: 01/25/23 14:55 Received: 02/15/23 10:00 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	0.0749U ± 0.116 (0.252) C:95% T:NA	pCi/L	03/14/23 19:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.00231U ± 0.268 (0.630) C:77% T:92%	pCi/L	02/23/23 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0749U ± 0.384 (0.882)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD01886 FB-1 **Lab ID: 30562855025** Collected: 01/25/23 15:35 Received: 02/15/23 10:00 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	-0.0787U ± 0.100 (0.361) C:97% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0581U ± 0.263 (0.629) C:80% T:97%	pCi/L	02/23/23 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000U ± 0.363 (0.990)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02458 MW-16 **Lab ID: 30562855026** Collected: 01/30/23 12:14 Received: 02/15/23 10:00 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	4.70 ± 0.925 (0.258) C:93% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.40 ± 0.483 (0.666) C:81% T:86%	pCi/L	02/23/23 15:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	6.10 ± 1.41 (0.924)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02459 MW-28H **Lab ID: 30562855027** Collected: 01/30/23 14:02 Received: 02/15/23 10:00 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	5.95 ± 1.10 (0.271) C:95% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.30 ± 0.460 (0.642) C:81% T:87%	pCi/L	02/23/23 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	7.25 ± 1.56 (0.913)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02460 MW-23D **Lab ID: 30562855028** Collected: 01/31/23 08:19 Received: 02/15/23 10:00 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	0.222U ± 0.169 (0.272) C:87% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.261U ± 0.280 (0.579) C:82% T:90%	pCi/L	02/23/23 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.483U ± 0.449 (0.851)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02461 MW-23S **Lab ID: 30562855029** Collected: 01/31/23 10:55 Received: 02/15/23 10:00 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 ± 0.170 (0.323) C:95% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.433U ± 0.303 (0.575) C:80% T:93%	pCi/L	02/23/23 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.609U ± 0.473 (0.898)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02462 MW-30H **Lab ID: 30562855030** Collected: 01/31/23 14:43 Received: 02/15/23 10:00 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	1.06 ± 0.335 (0.312) C:92% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.852 ± 0.386 (0.637) C:81% T:93%	pCi/L	02/23/23 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.91 ± 0.721 (0.949)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02463 MW-13 **Lab ID: 30562855031** Collected: 02/01/23 14:49 Received: 02/15/23 10:00 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	0.481 ± 0.234 (0.296) C:93% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.201U ± 0.272 (0.579) C:78% T:93%	pCi/L	02/23/23 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.682U ± 0.506 (0.875)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02464 MW-14 **Lab ID: 30562855032** Collected: 01/31/23 14:45 Received: 02/15/23 10:00 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	0.466 ± 0.228 (0.283) C:88% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.464U ± 0.331 (0.639) C:76% T:95%	pCi/L	02/23/23 15:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.930 ± 0.559 (0.922)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02465 MW-42 **Lab ID: 30562855033** Collected: 02/01/23 12:00 Received: 02/15/23 10:00 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 ± 0.156 (0.310) C:102% T:NA	pCi/L	03/15/23 10:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.392U ± 0.322 (0.637) C:75% T:90%	pCi/L	02/23/23 15:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.531U ± 0.478 (0.947)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD024656 MW-42 Dup **Lab ID: 30562855034** Collected: 02/01/23 12:00 Received: 02/15/23 10:00 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	0.101U ± 0.182 (0.413) C:89% T:NA	pCi/L	03/15/23 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0643U ± 0.240 (0.586) C:78% T:91%	pCi/L	02/23/23 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.101U ± 0.422 (0.999)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02467 FB-3 **Lab ID: 30562855035** Collected: 02/01/23 12:45 Received: 02/15/23 10:00 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	0.143U ± 0.167 (0.338) C:88% T:NA	pCi/L	03/15/23 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.281U ± 0.279 (0.570) C:81% T:90%	pCi/L	02/23/23 15:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.424U ± 0.446 (0.908)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02468 MW-40 **Lab ID: 30562855036** Collected: 02/01/23 13:35 Received: 02/15/23 10:00 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	0.0417U ± 0.116 (0.284) C:92% T:NA	pCi/L	03/15/23 08:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.347U ± 0.291 (0.578) C:80% T:94%	pCi/L	02/23/23 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.389U ± 0.407 (0.862)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02469 MW-41 **Lab ID: 30562855037** Collected: 02/01/23 14:40 Received: 02/15/23 10:00 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	0.173U ± 0.141 (0.228) C:97% T:NA	pCi/L	03/15/23 08:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.392U ± 0.320 (0.637) C:77% T:97%	pCi/L	02/23/23 15:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.565U ± 0.461 (0.865)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02470 MW-38 **Lab ID: 30562855038** Collected: 02/01/23 15:55 Received: 02/15/23 10:00 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	0.0722U ± 0.251 (0.611) C:79% T:NA	pCi/L	03/15/23 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.00743U ± 0.250 (0.593) C:81% T:88%	pCi/L	02/24/23 12:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0722U ± 0.501 (1.20)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02470 MW-38 MS **Lab ID: 30562855039** Collected: 02/01/23 15:55 Received: 02/15/23 10:00 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	106.68 %REC ± NA (NA) C:NA T:NA	pCi/L	03/15/23 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	93.21 %REC ± NA (NA) C:NA T:NA	pCi/L	02/24/23 12:48	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02470 MW-38 MSD **Lab ID: 30562855040** Collected: 02/01/23 15:55 Received: 02/15/23 10:00 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	102.87 %REC 3.64RPD ± NA (NA) C:NA T:NA	pCi/L	03/15/23 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	95.19 %REC 2.10RPD ± NA (NA) C:NA T:NA	pCi/L	02/24/23 12:48	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02471 MW-17 **Lab ID: 30562855041** Collected: 01/30/23 12:36 Received: 02/15/23 10:00 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	0.297U ± 0.218 (0.365) C:95% T:NA	pCi/L	03/15/23 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.629 ± 0.344 (0.610) C:83% T:87%	pCi/L	02/23/23 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.926U ± 0.562 (0.975)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02472 MW-34V **Lab ID: 30562855042** Collected: 01/31/23 10:23 Received: 02/15/23 10:00 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	0.308 ± 0.190 (0.284) C:98% T:NA	pCi/L	03/15/23 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.207U ± 0.272 (0.578) C:81% T:91%	pCi/L	02/23/23 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.515U ± 0.462 (0.862)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02871 MW-5 **Lab ID: 30562855043** Collected: 02/06/23 11:55 Received: 02/15/23 10:00 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	0.147U ± 0.128 (0.219) C:93% T:NA	pCi/L	03/15/23 08:42	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.100U ± 0.278 (0.675) C:81% T:86%	pCi/L	02/24/23 12:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.147U ± 0.406 (0.894)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02872 MW-5 Dup **Lab ID: 30562855044** Collected: 02/06/23 11:55 Received: 02/15/23 10:00 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	0.0652U ± 0.109 (0.241) C:93% T:NA	pCi/L	03/15/23 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0608U ± 0.274 (0.625) C:82% T:90%	pCi/L	02/24/23 12:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.126U ± 0.383 (0.866)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02873 MW-22 **Lab ID: 30562855045** Collected: 02/06/23 12:54 Received: 02/15/23 10:00 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	0.188U ± 0.164 (0.296) C:93% T:NA	pCi/L	03/15/23 08:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.394U ± 0.322 (0.635) C:78% T:87%	pCi/L	02/23/23 15:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.582U ± 0.486 (0.931)	pCi/L	03/15/23 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02874 MW-21 **Lab ID: 30562855046** Collected: 02/06/23 13:39 Received: 02/15/23 10:00 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	0.178U ± 0.148 (0.253) C:90% T:NA	pCi/L	03/15/23 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.202U ± 0.318 (0.690) C:81% T:86%	pCi/L	02/24/23 12:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.380U ± 0.466 (0.943)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02875 MW-6 **Lab ID: 30562855047** Collected: 02/06/23 14:40 Received: 02/15/23 10:00 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	0.318 ± 0.181 (0.219) C:90% T:NA	pCi/L	03/15/23 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.365U ± 0.312 (0.624) C:86% T:90%	pCi/L	02/24/23 12:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.683U ± 0.493 (0.843)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD02876 FB-4 Lab ID: 30562855048 Collected: 02/06/23 15:00 Received: 02/15/23 10:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00832U ± 0.107 (0.309) C:96% T:NA	pCi/L	03/15/23 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.486U ± 0.358 (0.703) C:78% T:91%	pCi/L	02/24/23 12:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.486U ± 0.465 (1.01)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02877 MW-32V **Lab ID: 30562855049** Collected: 02/07/23 09:33 Received: 02/15/23 10:00 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	0.652 ± 0.280 (0.295) C:90% T:NA	pCi/L	03/15/23 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.911 ± 0.425 (0.735) C:84% T:88%	pCi/L	02/24/23 12:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.56 ± 0.705 (1.03)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02878 MW-35V **Lab ID: 30562855050** Collected: 02/07/23 12:20 Received: 02/15/23 10:00 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	0.374 ± 0.208 (0.259) C:90% T:NA	pCi/L	03/15/23 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.551U ± 0.347 (0.659) C:83% T:97%	pCi/L	02/24/23 12:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.925 ± 0.555 (0.918)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02879 MW-39 **Lab ID: 30562855051** Collected: 02/07/23 14:12 Received: 02/15/23 10:00 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	0.0842U ± 0.120 (0.256) C:96% T:NA	pCi/L	03/15/23 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.548U ± 0.368 (0.710) C:80% T:93%	pCi/L	02/24/23 12:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.632U ± 0.488 (0.966)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02880 EB-1 **Lab ID: 30562855052** Collected: 02/07/23 14:45 Received: 02/15/23 10:00 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	0.0868U ± 0.126 (0.265) C:96% T:NA	pCi/L	03/15/23 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.309U ± 0.333 (0.697) C:81% T:93%	pCi/L	02/24/23 12:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.396U ± 0.459 (0.962)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02881 MW-12 **Lab ID: 30562855053** Collected: 02/06/23 11:38 Received: 02/15/23 10:00 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	0.300 ± 0.182 (0.253) C:91% T:NA	pCi/L	03/15/23 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.761 ± 0.385 (0.677) C:85% T:87%	pCi/L	02/24/23 12:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.06 ± 0.567 (0.930)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02882 MW-10 **Lab ID: 30562855054** Collected: 02/06/23 13:15 Received: 02/15/23 10:00 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	0.0152U ± 0.122 (0.322) C:91% T:NA	pCi/L	03/15/23 12:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.241U ± 0.317 (0.678) C:87% T:97%	pCi/L	02/24/23 12:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.256U ± 0.439 (1.000)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02883 MW-27 **Lab ID: 30562855055** Collected: 02/06/23 15:10 Received: 02/15/23 10:00 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	0.0400U ± 0.105 (0.258) C:88% T:NA	pCi/L	03/15/23 12:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.477U ± 0.329 (0.626) C:84% T:88%	pCi/L	02/24/23 15:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.517U ± 0.434 (0.884)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02884 MW-27 Dup **Lab ID: 30562855056** Collected: 02/06/23 15:10 Received: 02/15/23 10:00 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	0.0319U ± 0.127 (0.326) C:85% T:NA	pCi/L	03/15/23 12:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.101U ± 0.263 (0.588) C:84% T:92%	pCi/L	02/24/23 15:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.133U ± 0.390 (0.914)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02885 MW-26 **Lab ID: 30562855057** Collected: 02/07/23 10:23 Received: 02/15/23 10:00 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	0.0157U ± 0.0993 (0.269) C:89% T:NA	pCi/L	03/15/23 12:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0204U ± 0.232 (0.556) C:83% T:89%	pCi/L	02/24/23 15:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0157U ± 0.331 (0.825)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02886 MW-3 **Lab ID: 30562855058** Collected: 02/07/23 12:50 Received: 02/15/23 10:00 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	0.107U ± 0.125 (0.253) C:97% T:NA	pCi/L	03/15/23 12:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.124U ± 0.262 (0.579) C:83% T:96%	pCi/L	02/24/23 15:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.231U ± 0.387 (0.832)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02887 MW-4 **Lab ID: 30562855059** Collected: 02/07/23 14:05 Received: 02/15/23 10:00 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	0.348 ± 0.207 (0.325) C:94% T:NA	pCi/L	03/15/23 12:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.537U ± 0.375 (0.733) C:83% T:94%	pCi/L	02/24/23 15:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.885U ± 0.582 (1.06)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Sample: BD02888 MW-4 Dup **Lab ID: 30562855060** Collected: 02/07/23 14:05 Received: 02/15/23 10:00 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	-0.0665U ± 0.0827 (0.315) C:87% T:NA	pCi/L	03/15/23 12:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.434U ± 0.348 (0.698) C:81% T:98%	pCi/L	02/24/23 15:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.434U ± 0.431 (1.01)	pCi/L	03/15/23 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD02889 FB-5 Lab ID: 30562855061 Collected: 02/07/23 15:00 Received: 02/15/23 10:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0269U ± 0.0921 (0.309) C:102% T:NA	pCi/L	02/28/23 08:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.103U ± 0.231 (0.514) C:84% T:95%	pCi/L	02/23/23 12:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.103U ± 0.323 (0.823)	pCi/L	02/28/23 15:13	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

QC Batch:	567647	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30562855001, 30562855002, 30562855003, 30562855004, 30562855005, 30562855006, 30562855007, 30562855008, 30562855009, 30562855010, 30562855011, 30562855012, 30562855013, 30562855014, 30562855015, 30562855019, 30562855020, 30562855021, 30562855022, 30562855023

METHOD BLANK: 2757247 Matrix: Water

Associated Lab Samples: 30562855001, 30562855002, 30562855003, 30562855004, 30562855005, 30562855006, 30562855007, 30562855008, 30562855009, 30562855010, 30562855011, 30562855012, 30562855013, 30562855014, 30562855015, 30562855019, 30562855020, 30562855021, 30562855022, 30562855023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0650 ± 0.222 (0.504) C:86% T:95%	pCi/L	02/23/23 12:04	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

QC Batch: 567656

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30562855061

METHOD BLANK: 2757285

Matrix: Water

Associated Lab Samples: 30562855061

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0101 ± 0.0597 (0.161) C:101% T:NA	pCi/L	02/28/23 08:40	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

QC Batch: 567650	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30562855038, 30562855039, 30562855040, 30562855043, 30562855044, 30562855046, 30562855047, 30562855048, 30562855049, 30562855050, 30562855051, 30562855052, 30562855053, 30562855054, 30562855055, 30562855056, 30562855057, 30562855058, 30562855059, 30562855060	

METHOD BLANK: 2757258	Matrix: Water
Associated Lab Samples: 30562855038, 30562855039, 30562855040, 30562855043, 30562855044, 30562855046, 30562855047, 30562855048, 30562855049, 30562855050, 30562855051, 30562855052, 30562855053, 30562855054, 30562855055, 30562855056, 30562855057, 30562855058, 30562855059, 30562855060	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.112 ± 0.0857 (0.138) C:96% T:NA	pCi/L	03/15/23 08:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

QC Batch: 567651

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30562855038, 30562855039, 30562855040, 30562855043, 30562855044, 30562855046, 30562855047, 30562855048, 30562855049, 30562855050, 30562855051, 30562855052, 30562855053, 30562855054, 30562855055, 30562855056, 30562855057, 30562855058, 30562855059, 30562855060

METHOD BLANK: 2757270

Matrix: Water

Associated Lab Samples: 30562855038, 30562855039, 30562855040, 30562855043, 30562855044, 30562855046, 30562855047, 30562855048, 30562855049, 30562855050, 30562855051, 30562855052, 30562855053, 30562855054, 30562855055, 30562855056, 30562855057, 30562855058, 30562855059, 30562855060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.220 ± 0.307 (0.658) C:81% T:91%	pCi/L	02/24/23 12:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

QC Batch:	567645	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30562855001, 30562855002, 30562855003, 30562855004, 30562855005, 30562855006, 30562855007, 30562855008, 30562855009, 30562855010, 30562855011, 30562855012, 30562855013, 30562855014, 30562855015, 30562855019, 30562855020, 30562855021, 30562855022, 30562855023

METHOD BLANK: 2757237 Matrix: Water

Associated Lab Samples: 30562855001, 30562855002, 30562855003, 30562855004, 30562855005, 30562855006, 30562855007, 30562855008, 30562855009, 30562855010, 30562855011, 30562855012, 30562855013, 30562855014, 30562855015, 30562855019, 30562855020, 30562855021, 30562855022, 30562855023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0145 ± 0.0582 (0.175) C:93% T:NA	pCi/L	03/14/23 18:45	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

QC Batch:	567648	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30562855016, 30562855017, 30562855018, 30562855024, 30562855025, 30562855026, 30562855027, 30562855028, 30562855029, 30562855030, 30562855031, 30562855032, 30562855033, 30562855034, 30562855035, 30562855036, 30562855037, 30562855041, 30562855042, 30562855045

METHOD BLANK:	2757250	Matrix:	Water
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Associated Lab Samples: 30562855016, 30562855017, 30562855018, 30562855024, 30562855025, 30562855026, 30562855027, 30562855028, 30562855029, 30562855030, 30562855031, 30562855032, 30562855033, 30562855034, 30562855035, 30562855036, 30562855037, 30562855041, 30562855042, 30562855045

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0653 ± 0.0744 (0.146) C:94% T:NA	pCi/L	03/14/23 19:17	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

QC Batch: 567649

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30562855016, 30562855017, 30562855018, 30562855024, 30562855025, 30562855026, 30562855027, 30562855028, 30562855029, 30562855030, 30562855031, 30562855032, 30562855033, 30562855034, 30562855035, 30562855036, 30562855037, 30562855041, 30562855042, 30562855045

METHOD BLANK: 2757253

Matrix: Water

Associated Lab Samples: 30562855016, 30562855017, 30562855018, 30562855024, 30562855025, 30562855026, 30562855027, 30562855028, 30562855029, 30562855030, 30562855031, 30562855032, 30562855033, 30562855034, 30562855035, 30562855036, 30562855037, 30562855041, 30562855042, 30562855045

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.406 ± 0.312 (0.608) C:81% T:88%	pCi/L	02/23/23 15:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

QC Batch: 567658

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30562855061

METHOD BLANK: 2757287

Matrix: Water

Associated Lab Samples: 30562855061

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.226 ± 0.205 (0.539) C:80% T:94%	pCi/L	02/23/23 12:03	

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QUALIFIERS

Project: WMWGASAP_1396-Revised Report
Pace Project No.: 30562855

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30562855001	BD01866 MW-20V	EPA 9315	567645		
30562855002	BD01866 MW-20V MS	EPA 9315	567645		
30562855003	BD01866 MW-20V MSD	EPA 9315	567645		
30562855004	BD01867 MW-20SV	EPA 9315	567645		
30562855005	BD01868 MW-20SV Dup	EPA 9315	567645		
30562855006	BD01869 MW-20	EPA 9315	567645		
30562855007	BD01870 MW-18	EPA 9315	567645		
30562855008	BD01871 MW-17SV	EPA 9315	567645		
30562855009	BD01872 FB-2	EPA 9315	567645		
30562855010	BD01873 MW-33V	EPA 9315	567645		
30562855011	BD01874 MW-36V	EPA 9315	567645		
30562855012	BD01875 MW-19	EPA 9315	567645		
30562855013	BD01876 MW-16V	EPA 9315	567645		
30562855014	BD01877 MW-29H	EPA 9315	567645		
30562855015	BD01878 MW-17V	EPA 9315	567645		
30562855016	BD01879 MW-7	EPA 9315	567648		
30562855017	BD01879 MW-7 MS	EPA 9315	567648		
30562855018	BD01879 MW-7 MSD	EPA 9315	567648		
30562855019	BD01880 MW-37V	EPA 9315	567645		
30562855020	BD01881 MW-15R	EPA 9315	567645		
30562855021	BD01882 MW-31VR	EPA 9315	567645		
30562855022	BD01883 MW-9	EPA 9315	567645		
30562855023	BD01884 MW-8	EPA 9315	567645		
30562855024	BD01885 MW-11	EPA 9315	567648		
30562855025	BD01886 FB-1	EPA 9315	567648		
30562855026	BD02458 MW-16	EPA 9315	567648		
30562855027	BD02459 MW-28H	EPA 9315	567648		
30562855028	BD02460 MW-23D	EPA 9315	567648		
30562855029	BD02461 MW-23S	EPA 9315	567648		
30562855030	BD02462 MW-30H	EPA 9315	567648		
30562855031	BD02463 MW-13	EPA 9315	567648		
30562855032	BD02464 MW-14	EPA 9315	567648		
30562855033	BD02465 MW-42	EPA 9315	567648		
30562855034	BD024656 MW-42 Dup	EPA 9315	567648		
30562855035	BD02467 FB-3	EPA 9315	567648		
30562855036	BD02468 MW-40	EPA 9315	567648		
30562855037	BD02469 MW-41	EPA 9315	567648		
30562855038	BD02470 MW-38	EPA 9315	567650		
30562855039	BD02470 MW-38 MS	EPA 9315	567650		
30562855040	BD02470 MW-38 MSD	EPA 9315	567650		
30562855041	BD02471 MW-17	EPA 9315	567648		
30562855042	BD02472 MW-34V	EPA 9315	567648		
30562855043	BD02871 MW-5	EPA 9315	567650		
30562855044	BD02872 MW-5 Dup	EPA 9315	567650		
30562855045	BD02873 MW-22	EPA 9315	567648		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30562855046	BD02874 MW-21	EPA 9315	567650		
30562855047	BD02875 MW-6	EPA 9315	567650		
30562855048	BD02876 FB-4	EPA 9315	567650		
30562855049	BD02877 MW-32V	EPA 9315	567650		
30562855050	BD02878 MW-35V	EPA 9315	567650		
30562855051	BD02879 MW-39	EPA 9315	567650		
30562855052	BD02880 EB-1	EPA 9315	567650		
30562855053	BD02881 MW-12	EPA 9315	567650		
30562855054	BD02882 MW-10	EPA 9315	567650		
30562855055	BD02883 MW-27	EPA 9315	567650		
30562855056	BD02884 MW-27 Dup	EPA 9315	567650		
30562855057	BD02885 MW-26	EPA 9315	567650		
30562855058	BD02886 MW-3	EPA 9315	567650		
30562855059	BD02887 MW-4	EPA 9315	567650		
30562855060	BD02888 MW-4 Dup	EPA 9315	567650		
30562855061	BD02889 FB-5	EPA 9315	567656		
30562855001	BD01866 MW-20V	EPA 9320	567647		
30562855002	BD01866 MW-20V MS	EPA 9320	567647		
30562855003	BD01866 MW-20V MSD	EPA 9320	567647		
30562855004	BD01867 MW-20SV	EPA 9320	567647		
30562855005	BD01868 MW-20SV Dup	EPA 9320	567647		
30562855006	BD01869 MW-20	EPA 9320	567647		
30562855007	BD01870 MW-18	EPA 9320	567647		
30562855008	BD01871 MW-17SV	EPA 9320	567647		
30562855009	BD01872 FB-2	EPA 9320	567647		
30562855010	BD01873 MW-33V	EPA 9320	567647		
30562855011	BD01874 MW-36V	EPA 9320	567647		
30562855012	BD01875 MW-19	EPA 9320	567647		
30562855013	BD01876 MW-16V	EPA 9320	567647		
30562855014	BD01877 MW-29H	EPA 9320	567647		
30562855015	BD01878 MW-17V	EPA 9320	567647		
30562855016	BD01879 MW-7	EPA 9320	567649		
30562855017	BD01879 MW-7 MS	EPA 9320	567649		
30562855018	BD01879 MW-7 MSD	EPA 9320	567649		
30562855019	BD01880 MW-37V	EPA 9320	567647		
30562855020	BD01881 MW-15R	EPA 9320	567647		
30562855021	BD01882 MW-31VR	EPA 9320	567647		
30562855022	BD01883 MW-9	EPA 9320	567647		
30562855023	BD01884 MW-8	EPA 9320	567647		
30562855024	BD01885 MW-11	EPA 9320	567649		
30562855025	BD01886 FB-1	EPA 9320	567649		
30562855026	BD02458 MW-16	EPA 9320	567649		
30562855027	BD02459 MW-28H	EPA 9320	567649		
30562855028	BD02460 MW-23D	EPA 9320	567649		
30562855029	BD02461 MW-23S	EPA 9320	567649		
30562855030	BD02462 MW-30H	EPA 9320	567649		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30562855031	BD02463 MW-13	EPA 9320	567649		
30562855032	BD02464 MW-14	EPA 9320	567649		
30562855033	BD02465 MW-42	EPA 9320	567649		
30562855034	BD024656 MW-42 Dup	EPA 9320	567649		
30562855035	BD02467 FB-3	EPA 9320	567649		
30562855036	BD02468 MW-40	EPA 9320	567649		
30562855037	BD02469 MW-41	EPA 9320	567649		
30562855038	BD02470 MW-38	EPA 9320	567651		
30562855039	BD02470 MW-38 MS	EPA 9320	567651		
30562855040	BD02470 MW-38 MSD	EPA 9320	567651		
30562855041	BD02471 MW-17	EPA 9320	567649		
30562855042	BD02472 MW-34V	EPA 9320	567649		
30562855043	BD02871 MW-5	EPA 9320	567651		
30562855044	BD02872 MW-5 Dup	EPA 9320	567651		
30562855045	BD02873 MW-22	EPA 9320	567649		
30562855046	BD02874 MW-21	EPA 9320	567651		
30562855047	BD02875 MW-6	EPA 9320	567651		
30562855048	BD02876 FB-4	EPA 9320	567651		
30562855049	BD02877 MW-32V	EPA 9320	567651		
30562855050	BD02878 MW-35V	EPA 9320	567651		
30562855051	BD02879 MW-39	EPA 9320	567651		
30562855052	BD02880 EB-1	EPA 9320	567651		
30562855053	BD02881 MW-12	EPA 9320	567651		
30562855054	BD02882 MW-10	EPA 9320	567651		
30562855055	BD02883 MW-27	EPA 9320	567651		
30562855056	BD02884 MW-27 Dup	EPA 9320	567651		
30562855057	BD02885 MW-26	EPA 9320	567651		
30562855058	BD02886 MW-3	EPA 9320	567651		
30562855059	BD02887 MW-4	EPA 9320	567651		
30562855060	BD02888 MW-4 Dup	EPA 9320	567651		
30562855061	BD02889 FB-5	EPA 9320	567658		
30562855001	BD01866 MW-20V	Total Radium Calculation	574084		
30562855004	BD01867 MW-20SV	Total Radium Calculation	574084		
30562855005	BD01868 MW-20SV Dup	Total Radium Calculation	574084		
30562855006	BD01869 MW-20	Total Radium Calculation	574084		
30562855007	BD01870 MW-18	Total Radium Calculation	574084		
30562855008	BD01871 MW-17SV	Total Radium Calculation	574084		
30562855009	BD01872 FB-2	Total Radium Calculation	574084		
30562855010	BD01873 MW-33V	Total Radium Calculation	574084		
30562855011	BD01874 MW-36V	Total Radium Calculation	574084		
30562855012	BD01875 MW-19	Total Radium Calculation	574084		
30562855013	BD01876 MW-16V	Total Radium Calculation	574084		
30562855014	BD01877 MW-29H	Total Radium Calculation	574084		
30562855015	BD01878 MW-17V	Total Radium Calculation	574084		
30562855016	BD01879 MW-7	Total Radium Calculation	574085		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGASAP_1396-Revised Report

Pace Project No.: 30562855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30562855019	BD01880 MW-37V	Total Radium Calculation	574084		
30562855020	BD01881 MW-15R	Total Radium Calculation	574084		
30562855021	BD01882 MW-31VR	Total Radium Calculation	574084		
30562855022	BD01883 MW-9	Total Radium Calculation	574084		
30562855023	BD01884 MW-8	Total Radium Calculation	574084		
30562855024	BD01885 MW-11	Total Radium Calculation	574085		
30562855025	BD01886 FB-1	Total Radium Calculation	574085		
30562855026	BD02458 MW-16	Total Radium Calculation	574085		
30562855027	BD02459 MW-28H	Total Radium Calculation	574085		
30562855028	BD02460 MW-23D	Total Radium Calculation	574085		
30562855029	BD02461 MW-23S	Total Radium Calculation	574085		
30562855030	BD02462 MW-30H	Total Radium Calculation	574085		
30562855031	BD02463 MW-13	Total Radium Calculation	574085		
30562855032	BD02464 MW-14	Total Radium Calculation	574085		
30562855033	BD02465 MW-42	Total Radium Calculation	574085		
30562855034	BD024656 MW-42 Dup	Total Radium Calculation	574085		
30562855035	BD02467 FB-3	Total Radium Calculation	574085		
30562855036	BD02468 MW-40	Total Radium Calculation	574085		
30562855037	BD02469 MW-41	Total Radium Calculation	574085		
30562855038	BD02470 MW-38	Total Radium Calculation	574097		
30562855041	BD02471 MW-17	Total Radium Calculation	574085		
30562855042	BD02472 MW-34V	Total Radium Calculation	574085		
30562855043	BD02871 MW-5	Total Radium Calculation	574097		
30562855044	BD02872 MW-5 Dup	Total Radium Calculation	574097		
30562855045	BD02873 MW-22	Total Radium Calculation	574085		
30562855046	BD02874 MW-21	Total Radium Calculation	574097		
30562855047	BD02875 MW-6	Total Radium Calculation	574097		
30562855048	BD02876 FB-4	Total Radium Calculation	574097		
30562855049	BD02877 MW-32V	Total Radium Calculation	574097		
30562855050	BD02878 MW-35V	Total Radium Calculation	574097		
30562855051	BD02879 MW-39	Total Radium Calculation	574097		
30562855052	BD02880 EB-1	Total Radium Calculation	574097		
30562855053	BD02881 MW-12	Total Radium Calculation	574097		
30562855054	BD02882 MW-10	Total Radium Calculation	574097		
30562855055	BD02883 MW-27	Total Radium Calculation	574097		
30562855056	BD02884 MW-27 Dup	Total Radium Calculation	574097		
30562855057	BD02885 MW-26	Total Radium Calculation	574097		
30562855058	BD02886 MW-3	Total Radium Calculation	574097		
30562855059	BD02887 MW-4	Total Radium Calculation	574097		
30562855060	BD02888 MW-4 Dup	Total Radium Calculation	574097		
30562855061	BD02889 FB-5	Total Radium Calculation	570494		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Brooke Caton	Company Name: Brooke Caton	Attention: Brooke Caton	Company Name: Alabama Power Co.	Address: 744 Highway 87 GSC Bldg #8
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	CCR	744 Highway 87 GSC Bldg #8	CCR
Email To: thwill@southernco.com	Purchase Order #: APC10755638	Field Filtered	Matrix Spike/Matrix Spike Duplicate	Pace Quote: CCR	Pace Project Manager: Skyler Richmond
Phone: 205-664-6247 Fax	Project Name: Plant Gaston Ash Pond	Sample Duplicate	Sample Duplicate	Pace Project Manager: Skyler Richmond	Pace Profile #: 16788
Requested Due Date: 28 days	Project Number: WMMWGASAP_1396	Field Filtered	Matrix Spike/Matrix Spike Duplicate	Pace Project Manager: Skyler Richmond	Pace Profile #: 16788

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	COLLECTED		Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	# OF CONTAINERS	Preservatives			Analyses Test	DATE	TIME	SAMPLE CONDITIONS
				DATE	TIME						H2SO4	HNO3	EPA 9315				
1	MW-20V	APCO-GN-AP-MW-20V	APCO_Gaston_AshPond	1/24/2023	10:12	x		GW G	G	3			X	X			001,002,003
2	MW-20SV	APCO-GN-AP-MW-20SV	APCO_Gaston_AshPond	1/24/2023	11:32			GW G	G	1			X	X			004
3	MW-20SV Dup	APCO-GN-AP-MW-20SV	APCO_Gaston_AshPond	1/24/2023	11:32	x		GW G	G	1			X	X			005
4	MW-20	APCO-GN-AP-MW-20	APCO_Gaston_AshPond	1/24/2023	12:32			GW G	G	1			X	X			006
5	MW-18	APCO-GN-AP-MW-18	APCO_Gaston_AshPond	1/24/2023	13:32			GW G	G	1			X	X			007
6	MW-17SV	APCO-GN-AP-MW-17SV	APCO_Gaston_AshPond	1/24/2023	14:23			GW G	G	1			X	X			008
7	FB-2	APCO-GN-AP-FB-02	APCO_Gaston_AshPond	1/24/2023	15:15			GW G	G	1			X	X			009
8	MW-33V	APCO-GN-AP-MW-33V	APCO_Gaston_AshPond	1/25/2023	10:16			GW G	G	1			X	X			010
9	MW-36V	APCO-GN-AP-MW-36V	APCO_Gaston_AshPond	1/25/2023	12:08			GW G	G	1			X	X			011
10	MW-19	APCO-GN-AP-MW-19	APCO_Gaston_AshPond	1/25/2023	15:05			GW G	G	1			X	X			012
11	MW-16V	APCO-GN-AP-MW-16V	APCO_Gaston_AshPond	1/24/2023	10:40			GW G	G	1			X	X			013
12	MW-29H	APCO-GN-AP-MW-29H	APCO_Gaston_AshPond	1/24/2023	14:08			GW G	G	1			X	X			014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME
	Brooke Caton / APC GTL	2/10/2023	8:34

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Anthony Goggins
SIGNATURE of SAMPLER:	<i>Anthony Goggins</i>
DATE Signed:	2/15/23 10:00

WO#: 30562855



30562855

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A		Section B		Section C	
Required Client Information:		Required Project Information:		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.
Email To:	ibwill@alpower.com	Purchase Order #:	APC10755638	Address:	744 Highway 87 GSC Bldg #8 CCR
Phone:	205-664-6247	Project Name:	Plant Gaston Ash Pond	Face Project Manager:	Skylar Richmond
Requested Due Date:	28 days	Project Number:	WNWGASAP_1396	Face Profile #:	16788
Regulatory Agency:		State / Location:		AL	

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)		
								DATE	TIME		Preservatives	Analyses Test	EPA 9315	EPA 9320		Total Radium Sum	
1	MW-17V	APCO-GN-AP-MW-17V	APCO_Gaston_AshPond			GW	G	1/25/2023	11:17	1				X	X	X	
2	MW-7	APCO-GN-AP-MW-7	APCO_Gaston_AshPond	X		GW	G	1/25/2023	13:20	3				X	X	X	
3	MW-37V	APCO-GN-AP-MW-37V	APCO_Gaston_AshPond			GW	G	1/24/2023	10:38	1				X	X	X	
4	MW-15R	APCO-GN-AP-MW-15R	APCO_Gaston_AshPond			GW	G	1/24/2023	12:30	1				X	X	X	
5	MW-31VR	APCO-GN-AP-MW-31VR	APCO_Gaston_AshPond			GW	G	1/24/2023	16:20	1				X	X	X	
6	MW-9	APCO-GN-AP-MW-9	APCO_Gaston_AshPond			GW	G	1/25/2023	10:30	1				X	X	X	
7	MW-8	APCO-GN-AP-MW-8	APCO_Gaston_AshPond			GW	G	1/25/2023	12:30	1				X	X	X	
8	MW-11	APCO-GN-AP-MW-11	APCO_Gaston_AshPond			GW	G	1/25/2023	14:55	1				X	X	X	
9	FB-1	APCO-GN-AP-FB-01	APCO_Gaston_AshPond			GW	G	1/25/2023	15:35	1				X	X	X	
10	MW-16	APCO-GN-AP-MW-16	APCO_Gaston_AshPond			GW	G	1/30/2023	12:14	1				X	X	X	
11	MW-28H	APCO-GN-AP-MW-28H	APCO_Gaston_AshPond			GW	G	1/30/2023	14:02	1				X	X	X	
12	MW-23D	APCO-GN-AP-MW-23D	APCO_Gaston_AshPond			GW	G	1/31/2023	8:19	1				X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Brooke Caton/ APC GTL	2/10/2023	8:34			
				<i>Rup Patel</i>	2/15/23	10:00

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anthony Goggins BC 2-10-23

SIGNATURE of SAMPLER: *Anthony Goggins* DATE Signed: 2/15/23

WO#: 30562855

PN: SCR Due Date: 03/15/23

CLIENT: ALABAMA PMR

Received on: []
Ice: []
Sealed: []
Custody: []
Cooler: []
Samples: []
Request: []

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Brooke Caton	Company Name: Brooke Caton	Attention:	Company Name: Alabama Power Co.	Regulatory Agency:
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	Address:	744 Highway 87 GSC Bldg #8	State / Location: AL
Calera, AL 35040	Purchase Order #: APC10755638	CCR	CCR		
Email To: tbwill@alpower.com	Project Name: Plant Gaston Ash Pond	Matrix Spiked/Matrix Spike Duplicate	Matrix Spiked/Matrix Spike Duplicate		
Phone: 205-664-6247 Fax:	Project Number: WFMWASAP_1396	Field Filtered	Field Filtered		
Requested Due Date: 28 days		Sample Duplicate	Sample Duplicate		

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spiked/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)
								DATE	TIME							
1	BD02461	APCO-GN-AP-MW-23S	APCO_Gaston_AshPond			GW	G	1/31/2023	10:55	1		X	X	X		029
2	BD02462	APCO-GN-AP-MW-30H	APCO_Gaston_AshPond			GW	G	1/31/2023	14:43	1		X	X	X		030
3	BD02463	APCO-GN-AP-MW-13	APCO_Gaston_AshPond			GW	G	2/1/2023	14:49	1		X	X	X		031
4	BD02464	APCO-GN-AP-MW-14	APCO_Gaston_AshPond			GW	G	1/31/2023	14:45	1		X	X	X		032
5	BD02465	APCO-GN-AP-MW-42	APCO_Gaston_AshPond			GW	G	2/1/2023	12:00	1		X	X	X		033
6	BD02466	APCO-GN-AP-MW-42	APCO_Gaston_AshPond	x		GW	G	2/1/2023	12:00	1		X	X	X		034
7	BD02467	APCO-GN-AP-FB-03	APCO_Gaston_AshPond			GW	G	2/1/2023	12:45	1		X	X	X		035
8	BD02468	APCO-GN-AP-MW-40	APCO_Gaston_AshPond			GW	G	2/1/2023	13:35	1		X	X	X		036
9	BD02469	APCO-GN-AP-MW-41	APCO_Gaston_AshPond			GW	G	2/1/2023	14:40	1		X	X	X		037
10	BD02470	APCO-GN-AP-MW-36	APCO_Gaston_AshPond	x		GW	G	2/1/2023	15:55	3		X	X	X		038,039,040
11	BD02471	APCO-GN-AP-MW-17	APCO_Gaston_AshPond			GW	G	1/30/2022	12:36	1		X	X	X		041
12	BD02472	APCO-GN-AP-MW-24V	APCO_Gaston_AshPond			GW	G	1/31/2023	10:23	1		X	X	X		042

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Brooke Caton/ APC GTL	2/10/2023	8:34			
				<i>Renee Jernigan</i>	2/15/23	10:00

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Anthony Coggins
SIGNATURE of SAMPLER:	<i>Anthony Coggins</i>
DATE Signed:	02-10-23

WO# : 30562855

PH: SCR Due Date: 03/15/23

CLIENT: ALABAMA PWR

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Brooke Caton	Company Name: Alabama Power Co.	Attention: Brooke Caton	Regulatory Agency: AL	
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	CCR	State / Location: AL	
Email To: tbwill@southemco.com	Purchase Order #: APC10755638	Pace Quote: Skyler Richmond			
Phone: 205-664-6247 Fax:	Project Name: Plant Gaston Ash Pond	Pace Project Manager: Skyler Richmond			
Requested Due Date: 28 days	Project Number: WNWGASAP_1396	Pace Profile #: 16788			

ITEM #	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	# OF CONTAINERS	Preservatives	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)	
																	DATE	TIME
1	BD02871 MW-5	APCO-GN-AP-MW-5	APCO_Gaston_AshPond				GW	G	2/6/2023	11:55	X	X	X	X	X			
2	BD02872 MW-5 Dup	APCO-GN-AP-MW-5	APCO_Gaston_AshPond	X			GW	G	2/6/2023	11:55	X	X	X	X	X			
3	BD02873 MW-22	APCO-GN-AP-MW-22	APCO_Gaston_AshPond				GW	G	2/6/2023	12:54	X	X	X	X	X			
4	BD02874 MW-21	APCO-GN-AP-MW-21	APCO_Gaston_AshPond				GW	G	2/6/2023	13:39	X	X	X	X	X			
5	BD02875 MW-6	APCO-GN-AP-MW-6	APCO_Gaston_AshPond				GW	G	2/6/2023	14:40	X	X	X	X	X			
6	BD02876 FB-4	APCO-GN-AP-FB-04	APCO_Gaston_AshPond				GW	G	2/6/2023	15:00	X	X	X	X	X			
7	BD02877 MW-32V	APCO-GN-AP-MW-32V	APCO_Gaston_AshPond				GW	G	2/7/2023	9:33	X	X	X	X	X			
8	BD02878 MW-35V	APCO-GN-AP-MW-35V	APCO_Gaston_AshPond				GW	G	2/7/2023	12:20	X	X	X	X	X			
9	BD02879 MW-39	APCO-GN-AP-MW-39	APCO_Gaston_AshPond				GW	G	2/7/2023	14:12	X	X	X	X	X			
10	BD02880 EB-1	APCO-GN-AP-EB-01	APCO_Gaston_AshPond				GW	G	2/7/2023	14:45	X	X	X	X	X			
11	BD02881 MW-12	APCO-GN-AP-MW-12	APCO_Gaston_AshPond				GW	G	2/6/2023	11:38	X	X	X	X	X			
12	BD02882 MW-10	APCO-GN-AP-MW-10	APCO_Gaston_AshPond				GW	G	2/6/2023	13:15	X	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Brooke Caton / APC GTL	2/10/2023	8:34			
				<i>Steph Porter</i>	2/15/23	1000

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Anthony Siggins BC 2-10-23
 SIGNATURE of SAMPLER: *Anthony Siggins* DATE Signed: 2/15/23

WO#: 30562855

PM SCR Due Date: 03/15/23

CLIENT: ALABAMA PWR

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	Company Name: Alabama Power Co.	Regulatory Agency:	
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	State / Location:	AL
Calera, AL 35040	Purchase Order #: APC10755638	Pace Quote: CCR	State / Location:		
Email To: tbwill@southemco.com	Project Name: Plant Gaston Ash Pond	Pace Project Manager: Skyler Richmond			
Phone: 205-664-6247 Fax:	Project Number: WMWGASAP_1396	Pace Profile #: 16788			
Requested Due Date: 28 days					

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)
								DATE	TIME								
1	BD02883	APCO-GN-AP-MW-27	APCO_Gaston_AshPond				GW G	2/6/2023	15:10	1	X	X	X	X			
2	BD02884	APCO-GN-AP-MW-27	APCO_Gaston_AshPond	x			GW G	2/6/2023	15:10	1	X	X	X	X			
3	BD02885	APCO-GN-AP-MW-26	APCO_Gaston_AshPond				GW G	2/7/2023	10:23	1	X	X	X	X			
4	BD02886	APCO-GN-AP-MW-3	APCO_Gaston_AshPond				GW G	2/7/2023	12:50	1	X	X	X	X			
5	BD02887	APCO-GN-AP-MW-4	APCO_Gaston_AshPond				GW G	2/7/2023	14:05	1	X	X	X	X			
6	BD02888	APCO-GN-AP-MW-4	APCO_Gaston_AshPond	x			GW G	2/7/2023	14:05	1	X	X	X	X			
7	BD02889	APCO-GN-AP-FB-05	APCO_Gaston_AshPond				GW G	2/7/2023	15:00	1	X	X	X	X			
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	2/10/2023	8:34				
				<i>Ruppert</i>	2/15/23	16:00	

RECEIVED ON: _____

TEMP IN C: _____

Received on: _____

Ice: _____

Custody: _____

Sealed: _____

Cooler: _____

Filter: _____

Project: _____

Samples: _____

WO#: 30562855

PN: SCR Due Date: 03/15/23

CLIENT: ALABAMA PWR

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Anthony Gossins
 SIGNATURE of SAMPLER: *Anthony Gossins*
 DATE Signed: 2-10-23

DC#_Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt-
Pittsburgh

Effective Date: 02/03/2023

W0#: 30562855

PM: SCR Due Date: 03/15/23
CLIENT: ALABAMA PWR



Client Name: Alabama Power

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 61540259 5842 ps 2/15/23

Custody Seal on Cooler/Box Present: Yes No ps 2/15/23 Seals Intact: Yes No

Examined By	<u>PS</u>
Labeled By	<u>PS</u>
Temped By	<u>PS</u>

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

Comments:				pH paper Lot#	D.P.D. Residual Chlorine Lot #
	Yes	No	NA	<u>102221</u>	
Chain of Custody Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Filled Out: -Were client corrections present on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Correct Containers Used: -Pace Containers Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Orthophosphate field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Hex Cr Aqueous samples field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Organic Samples checked for dechlorination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Filtered volume received for dissolved tests:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>PS</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
624.1: Headspace in VOA Vials (0mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>PS</u>	Date: <u>2/15/23</u> Survey Meter SN: <u>1563</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 2/20/2023
Worklist: 71524
Matrix: WT

Method Blank Assessment	
MB Sample ID	2757237
MB concentration:	-0.014
MB 2 Sigma CSU:	0.058
MB MDC:	0.175
MB Numerical Performance Indicator:	-0.49
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	3/14/2023	LCSD71524	3/14/2023
Spike I.D.:	19-033		19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019		24.019
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.500		0.500
Target Conc. (pCi/L, g, F):	4.703		4.803
Uncertainty (Calculated):	0.056		0.058
Result (pCi/L, g, F):	4.752		4.276
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.823		0.768
Numerical Performance Indicator:	101.05%		-1.34
Percent Recovery:	89.03%		Pass
Status vs Numerical Indicator:	Pass		N/A
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCSD71524
Duplicate Sample I.D.:	LCSD71524
Sample Result (pCi/L, g, F):	4.752
Duplicate Result (pCi/L, g, F):	0.823
Sample Result 2 Sigma CSU (pCi/L, g, F):	4.276
Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.768
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.828
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.64%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	1/24/2023	1/24/2023	
Sample I.D.:	30562855001	30562855001	
Sample MS I.D.:	30562855002	30562855002	
Sample MSD I.D.:	30562855003	30562855003	
Spike I.D.:	19-033	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.020	24.020	
Spike Volume Used in MS (mL):	0.20	0.20	
MS Aliquot (L, g, F):	0.256	0.256	
MS Target Conc. (pCi/L, g, F):	18.739	18.739	
MSD Aliquot (L, g, F):	0.257	0.257	
MSD Target Conc. (pCi/L, g, F):	18.674	18.674	
MS Spike Uncertainty (calculated):	0.225	0.225	
MSD Spike Uncertainty (calculated):	0.224	0.224	
Sample Result:	2.022	2.022	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.517	0.517	
Sample Matrix Spike Result:	24.121	24.121	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	3.788	3.788	
Sample Matrix Spike Duplicate Result:	23.657	23.657	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.728	3.728	
MS Numerical Performance Indicator:	1.719	1.719	
MSD Numerical Performance Indicator:	1.539	1.539	
MS Percent Recovery:	117.93%	117.93%	
MSD Percent Recovery:	115.86%	115.86%	
MS Status vs Numerical Indicator:	Pass	Pass	
MSD Status vs Numerical Indicator:	Pass	Pass	
MS Status vs Recovery:	N/A	N/A	
MSD Status vs Recovery:	N/A	N/A	
MS/MSD Upper % Recovery Limits:	125%	125%	
MS/MSD Lower % Recovery Limits:	75%	75%	

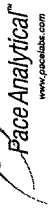
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30562855001
Sample MS I.D.:	30562855002
Sample MSD I.D.:	30562855003
Sample Matrix Spike Result:	24.121
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	3.788
Sample Matrix Spike Duplicate Result:	23.657
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.728
Duplicate Numerical Performance Indicator:	0.171
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.77%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten: IAM 3/15/23
Suc 3/15/23
Total Alpha Radium (ENV-FRM-GBUR-0142 RO).xls
TAR_71524_W

Quality Control Sample Performance Assessment



Analyst must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 2/21/2023
Worklist: 71525
Matrix: WT

Method Blank Assessment	
MB Sample ID	2757247
MB concentration:	0.065
MB 2 Sigma CSU:	0.222
MB MDC:	0.504
MB Numerical Performance Indicator:	0.57
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS (Y or N)?	N
LCS71525	LCS071525
Count Date:	2/23/2023
Spike I.D.:	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.456
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.801
Target Conc. (pCi/L, g, F):	4.179
Uncertainty (Calculated):	0.205
Result (pCi/L, g, F):	4.254
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.954
Numerical Performance Indicator:	0.15
Percent Recovery:	101.81%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
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:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

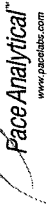
Comments:

VAL
2/24/23

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		1/24/2023	
Sample I.D.:		30562855001	
Sample MS I.D.:		30562855002	
Sample MSD I.D.:		30562855003	
Spike I.D.:		22-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		33.789	
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):		8.440	
MSD Aliquot (L, g, F):		0.800	
MSD Target Conc. (pCi/L, g, F):		8.443	
MS Spike Uncertainty (calculated):		0.414	
MSD Spike Uncertainty (calculated):		0.414	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.457	
Sample Matrix Spike Result:		0.312	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		6.825	
Sample Matrix Spike Duplicate Result:		1.392	
MS Numerical Performance Indicator:		6.279	
MSD Numerical Performance Indicator:		1.300	
MS Percent Recovery:		-2.735	
MSD Percent Recovery:		75.45%	
MS Status vs Numerical Indicator:		68.96%	
MSD Status vs Numerical Indicator:		Warning	
MS Status vs Recovery:		Fail***	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30562855001
Sample MS I.D.:	30562855002
Sample MSD I.D.:	30562855003
Sample Matrix Spike Result:	6.825
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.392
Sample Matrix Spike Duplicate Result:	6.279
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.300
Duplicate Numerical Performance Indicator:	0.561
Duplicate Numerical Performance Indicator:	8.98%
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	Pass
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass
MS/ MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: SLC
Date: 2/20/2023
Worklist: 71526
Matrix: DW

Method Blank Assessment	
MB Sample ID	2757250
MB concentration:	0.065
M/B Counting Uncertainty:	0.074
MB MDC:	0.146
MB Numerical Performance Indicator:	1.73
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

LCS (Y or N)?	Y	
	LCS71526	LCS71526
Count Date:	3/15/2023	3/15/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.018	24.018
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.504
Target Conc. (pCi/L, g, F):	4.789	4.761
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.762	3.871
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.460	0.416
Numerical Performance Indicator:	-0.12	-4.15
Percent Recovery:	99.42%	81.31%
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	Pass	Pass
Lower % Recovery Limits:	125%	125%
	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS71526
Duplicate Sample I.D.:	LCS71526
Sample Result (pCi/L, g, F):	4.762
Sample Duplicate Result (pCi/L, g, F):	0.460
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	3.871
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	2.812
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	20.04%
Duplicate Status vs Numerical Indicator:	N/A
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.

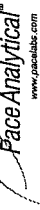
Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		1/25/2023	
Sample I.D.:		30562855016	
Sample MS I.D.:		30562855017	
Sample MSD I.D.:		30562855018	
Spike I.D.:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		24.020	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.242	
MS Target Conc. (pCi/L, g, F):		19.883	
MSD Aliquot (L, g, F):		0.238	
MSD Target Conc. (pCi/L, g, F):		20.170	
MS Spike Uncertainty (calculated):		0.239	
MSD Spike Uncertainty (calculated):		0.242	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.232	
Sample Matrix Spike Result:		0.175	
Sample Spike Result Counting Uncertainty (pCi/L, g, F):		20.642	
Matrix Spike Duplicate Result:		20.246	
Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):		1.383	
MS Numerical Performance Indicator:		0.721	
MSD Numerical Performance Indicator:		-0.217	
MS Percent Recovery:		102.65%	
MSD Percent Recovery:		99.22%	
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%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30562855016
Sample MS I.D.:	30562855017
Sample MSD I.D.:	30562855018
Sample Matrix Spike Result:	20.642
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.402
Sample Matrix Spike Duplicate Result:	20.246
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.383
Duplicate Numerical Performance Indicator:	0.395
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	3.40%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

UAM3/15/23
SLC 3/15/23
Total Alpha Radium (ENV-FRM-GBUR-0142 RD).xls

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JJS1
Date: 2/21/2023
Worklist: 71527
Matrix: WT

Method Blank Assessment	
MB Sample ID	2757253
MB concentration:	0.406
M/B 2 Sigma CSU:	0.312
MB MDC:	0.608
MB Numerical Performance Indicator:	2.56
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS71527	LCSD71527
Count Date:	2/23/2023	
Spike I.D.:	22-040	
Decay Corrected Spike Concentration (pCi/mL):	33.454	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.802	
Target Conc. (pCi/L, g, F):	4.170	
Uncertainty (Calculated):	0.204	
Result (pCi/L, g, F):	2.669	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.697	
Numerical Performance Indicator:	-4.05	
Percent Recovery:	64.02%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
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:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	1/25/2023	
Sample I.D.:	30562855016	
Sample MS I.D.:	30562855017	
Sample MSD I.D.:	30562855018	
Spike I.D.:	22-040	
Spike I.D.:	33.777	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.800	
MS Aliquot (L, g, F):	8.443	
MS Target Conc. (pCi/L, g, F):	0.804	
MSD Aliquot (L, g, F):	8.404	
MSD Target Conc. (pCi/L, g, F):	0.414	
MS Spike Uncertainty (calculated):	0.412	
MSD Spike Uncertainty (calculated):	0.426	
Sample Result:	0.337	
Sample Result 2 Sigma CSU (pCi/L, g, F):	5.602	
Sample Matrix Spike Result:	1.184	
Sample Matrix Spike Duplicate Result:	7.120	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.461	
MS Numerical Performance Indicator:	-4.930	
MSD Numerical Performance Indicator:	-2.154	
MS Percent Recovery:	61.31%	
MSD Percent Recovery:	79.66%	
MS Status vs Numerical Indicator:	Fail****	
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%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30562855016
Sample MS I.D.:	30562855017
Sample MSD I.D.:	30562855018
Matrix Spike Result:	5.602
Matrix Spike Duplicate Result:	1.184
Sample Matrix Spike Duplicate Result:	7.120
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.461
Duplicate Numerical Performance Indicator:	-1.582
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries):	26.04%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Analyst

MS Passes % recovery criteria

****If either QC criteria pass, this batch is acceptable. The matrix spike duplicate result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

VAL 2/29/23

Quality Control Sample Performance Assessment



Analyst: **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
 Analyst: SLC
 Date: 2/21/2023
 Worklist: 71528
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2757258
MB concentration:	0.112
M/B Counting Uncertainty:	0.084
MB MDC:	0.138
MB Numerical Performance Indicator:	2.60
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS71528	LCSD71528
Count Date:	3/15/2023	3/15/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.018	24.018
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.504
Target Conc. (pCi/L, g, F):	4.784	4.765
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.037	5.037
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.473	0.479
Numerical Performance Indicator:	1.04	1.10
Percent Recovery:	105.28%	105.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS71528
Duplicate Sample I.D.:	LCSD71528
Sample Result (pCi/L, g, F):	5.037
Sample Duplicate Result (pCi/L, g, F):	0.473
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	5.037
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.479
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.002
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.40%
Duplicate Status vs Numerical Indicator:	N/A
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.

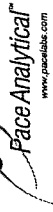
Comments:

VAM3/15/23
 SLC 3-15-23

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/1/2023	
Sample I.D.:	30562855038	
Sample MS I.D.:	30562855039	
Sample MSD I.D.:	30562855040	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.020	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.271	
MS Target Conc. (pCi/L, g, F):	17.722	
MSD Aliquot (L, g, F):	0.286	
MSD Target Conc. (pCi/L, g, F):	16.802	
MS Spike Uncertainty (calculated):	0.213	
MSD Spike Uncertainty (calculated):	0.202	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.072	
Sample Matrix Spike Result:	0.250	
Sample Matrix Spike Concentration (pCi/L, g, F):	18.979	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.277	
Sample Matrix Spike Duplicate Result:	17.356	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.175	
MS Numerical Performance Indicator:	1.760	
MSD Numerical Performance Indicator:	0.776	
MS Percent Recovery:	102.87%	
MSD Percent Recovery:	106.68%	
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%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30562855038
Sample MS I.D.:	30562855039
Sample MSD I.D.:	30562855040
Sample Matrix Spike Result:	18.979
Sample Matrix Spike Duplicate Result:	1.277
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	17.356
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.175
Duplicate Numerical Performance Indicator:	1.832
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	3.64%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: ZPC
Date: 2/21/2023
Worklist: 71529
Matrix: WT

Method Blank Assessment	
MB Sample ID	2757270
MB concentration:	0.220
M/B 2 Sigma CSU:	0.307
MB MDC:	0.658
MB Numerical Performance Indicator:	1.40
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?		N
	LCS71529	LCS71529	
Count Date:	2/24/2023		LCS71529
Spike I.D.:	22-040		
Decay Corrected Spike Concentration (pCi/mL):	33.444		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.807		
Target Conc. (pCi/L, g, F):	4.144		
Uncertainty (Calculated):	0.203		
Result (pCi/L, g, F):	3.105		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.763		
Numerical Performance Indicator:	-2.58		
Percent Recovery:	74.92%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (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:	

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/1/2023	
Sample I.D.:	30562855038	
Sample MS I.D.:	30562855039	
Sample MSD I.D.:	30562855040	
Spike I.D.:	22-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	33.698	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.806	
MS Target Conc. (pCi/L, g, F):	8.366	
MSD Aliquot (L, g, F):	0.806	
MSD Target Conc. (pCi/L, g, F):	8.362	
MS Spike Uncertainty (calculated):	0.410	
MSD Spike Uncertainty (calculated):	0.410	
Sample Result:	-0.007	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.250	
Sample Matrix Spike Result:	7.791	
Sample Matrix Spike Duplicate Result:	1.562	
Sample Matrix Spike Duplicate Result:	7.953	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.611	
MS Numerical Performance Indicator:	-0.681	
MSD Numerical Performance Indicator:	-0.469	
MS Percent Recovery:	93.21%	
MSD Percent Recovery:	95.19%	
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%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30562855038
Sample MS I.D.:	30562855039
Sample MSD I.D.:	30562855040
Matrix Spike Result:	7.791
Sample Matrix Spike Duplicate Result:	1.562
Sample Matrix Spike Duplicate Result:	7.953
Sample Matrix Spike Duplicate Result:	1.611
Duplicate Numerical Performance Indicator:	-0.142
Duplicate Numerical Performance Indicator:	2.10%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
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:

Mrz/28/23
VAC
3/1/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 2/17/2023
Worklist: 71531
Matrix: WT

Method Blank Assessment	
MB Sample ID	2757285
MB concentration:	0.010
M/B 2 Sigma CSU:	0.060
MB MDC:	0.161
MB Numerical Performance Indicator:	0.33
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS71531	Y
Count Date:	2/28/2023	LCS71531
Spike I.D.:	19-033	2/28/2023
Decay Corrected Spike Concentration (pCi/mL):	24.019	19-033
Volume Used (mL):	0.10	24.019
Aliquot Volume (L, g, F):	0.509	0.10
Target Conc. (pCi/L, g, F):	4.723	0.504
Uncertainty (Calculated):	0.057	4.766
Result (pCi/L, g, F):	5.473	0.057
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.960	4.939
Numerical Performance Indicator:	1.53	0.38
Percent Recovery:	115.88%	103.63%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS71531	Y
Sample I.D.:	LCS71531	2/28/2023
Duplicate Sample I.D.:	5.473	19-033
Sample Result (pCi/L, g, F):	0.960	24.019
Sample Result 2 Sigma CSU (pCi/L, g, F):	4.939	0.10
Sample Duplicate Result (pCi/L, g, F):	0.891	0.504
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	4.766
Are sample and/or duplicate results below RL?	0.800	0.057
Duplicate Numerical Performance Indicator:	11.17%	4.939
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass	0.891
Duplicate Status vs Numerical Indicator:	N/A	0.800
Duplicate Status vs RPD:	25%	11.17%
% RPD Limit:		Pass

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:		

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:
Sample 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:

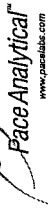
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET
2/28/23

LAM 2/28/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JGH
Date: 2/20/2023
Worklist: 71532
Matrix: WT

Method Blank Assessment	
MB Sample ID	2757287
MB concentration:	-0.226
M/B 2 Sigma CSU:	0.205
MB MDC:	0.539
MB Numerical Performance Indicator:	-2.16
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS71532	Y
Count Date:	2/23/2023	2/23/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.456	33.456
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.809	0.806
Target Conc. (pCi/L, g, F):	4.136	4.150
Uncertainty (Calculated):	0.203	0.203
Result (pCi/L, g, F):	3.161	3.501
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.743	0.796
Numerical Performance Indicator:	-2.48	-1.55
Percent Recovery:	76.42%	84.35%
Status vs Numerical Indicator:	N/A	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	Sample I.D.
Duplicate Sample I.D.:	Sample MS I.D.
Sample Result (pCi/L, g, F):	Sample MSD I.D.
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	Sample Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below RL?	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
Duplicate Status vs Numerical Indicator:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
% RPD Limit:	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:

Handwritten: VAL 2/24/23 1 of 1



E.C. Gaston Ash Pond

2023 Compliance Event 2

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.

MW-29H was inadvertently sampled while water level drawdown exceeded the 0.3 feet drawdown criteria. This was discovered during peer review, communicated to appropriate parties, and decided by SCS to keep the analytical and field data and include a summary in this field narrative. All other indicator stabilization criteria were met prior to sampling.

Vehicle traffic caused dusty conditions when pumping and sampling wells MW-4, MW-32V, MW-37V, MW-9, MW-10, MW-12 and MW-13.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
 - Field Blank 4 (FB-4) had results above the reporting limit for Calcium.
- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-38	COND	Conductivity	7/19/2023 8:23	177.22	uS/cm
GN-AP-MW-38	DO	DO	7/19/2023 8:23	4.25	mg/L
GN-AP-MW-38	DTW	Depth to Water Detail	7/19/2023 8:23	8.89	ft
GN-AP-MW-38	ORP	Oxidation Reduction Potention	7/19/2023 8:23	220.37	mv
GN-AP-MW-38	PH	pH	7/19/2023 8:23	7.54	SU
GN-AP-MW-38	TEMP	Temperature	7/19/2023 8:23	18.67	C
GN-AP-MW-38	TURB	Turbidity	7/19/2023 8:23	2.61	NTU
GN-AP-MW-38	COND	Conductivity	7/19/2023 8:28	178.81	uS/cm
GN-AP-MW-38	DO	DO	7/19/2023 8:28	4.24	mg/L
GN-AP-MW-38	DTW	Depth to Water Detail	7/19/2023 8:28	8.89	ft
GN-AP-MW-38	ORP	Oxidation Reduction Potention	7/19/2023 8:28	212.93	mv
GN-AP-MW-38	PH	pH	7/19/2023 8:28	7.62	SU
GN-AP-MW-38	TEMP	Temperature	7/19/2023 8:28	18.6	C
GN-AP-MW-38	TURB	Turbidity	7/19/2023 8:28	4.83	NTU
GN-AP-MW-38	COND	Conductivity	7/19/2023 8:33	179.58	uS/cm
GN-AP-MW-38	DO	DO	7/19/2023 8:33	4.24	mg/L
GN-AP-MW-38	DTW	Depth to Water Detail	7/19/2023 8:33	8.89	ft
GN-AP-MW-38	ORP	Oxidation Reduction Potention	7/19/2023 8:33	205.27	mv
GN-AP-MW-38	PH	pH	7/19/2023 8:33	7.71	SU
GN-AP-MW-38	TEMP	Temperature	7/19/2023 8:33	18.61	C
GN-AP-MW-38	TURB	Turbidity	7/19/2023 8:33	5.93	NTU
GN-AP-MW-38	COND	Conductivity	7/19/2023 8:38	179.9	uS/cm
GN-AP-MW-38	DO	DO	7/19/2023 8:38	4.26	mg/L
GN-AP-MW-38	DTW	Depth to Water Detail	7/19/2023 8:38	8.89	ft
GN-AP-MW-38	ORP	Oxidation Reduction Potention	7/19/2023 8:38	200.82	mv
GN-AP-MW-38	PH	pH	7/19/2023 8:38	7.78	SU
GN-AP-MW-38	SULFIDE	Sulfide	7/19/2023 8:38	0	mg/L
GN-AP-MW-38	TEMP	Temperature	7/19/2023 8:38	18.65	C
GN-AP-MW-38	TURB	Turbidity	7/19/2023 8:38	6.32	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-39	COND	Conductivity	7/19/2023 11:18	230.21	uS/cm
GN-AP-MW-39	DO	DO	7/19/2023 11:18	0.54	mg/L
GN-AP-MW-39	DTW	Depth to Water Detail	7/19/2023 11:18	20.54	ft
GN-AP-MW-39	ORP	Oxidation Reduction Potention	7/19/2023 11:18	-31.92	mv
GN-AP-MW-39	PH	pH	7/19/2023 11:18	6.96	SU
GN-AP-MW-39	TEMP	Temperature	7/19/2023 11:18	20.2	C
GN-AP-MW-39	TURB	Turbidity	7/19/2023 11:18	5.11	NTU
GN-AP-MW-39	COND	Conductivity	7/19/2023 11:23	226.9	uS/cm
GN-AP-MW-39	DO	DO	7/19/2023 11:23	0.4	mg/L
GN-AP-MW-39	DTW	Depth to Water Detail	7/19/2023 11:23	20.54	ft
GN-AP-MW-39	ORP	Oxidation Reduction Potention	7/19/2023 11:23	-57.68	mv
GN-AP-MW-39	PH	pH	7/19/2023 11:23	6.98	SU
GN-AP-MW-39	TEMP	Temperature	7/19/2023 11:23	20.33	C
GN-AP-MW-39	TURB	Turbidity	7/19/2023 11:23	4.05	NTU
GN-AP-MW-39	COND	Conductivity	7/19/2023 11:28	224.46	uS/cm
GN-AP-MW-39	DO	DO	7/19/2023 11:28	0.37	mg/L
GN-AP-MW-39	DTW	Depth to Water Detail	7/19/2023 11:28	20.54	ft
GN-AP-MW-39	ORP	Oxidation Reduction Potention	7/19/2023 11:28	-65.58	mv
GN-AP-MW-39	PH	pH	7/19/2023 11:28	7.02	SU
GN-AP-MW-39	TEMP	Temperature	7/19/2023 11:28	20.31	C
GN-AP-MW-39	TURB	Turbidity	7/19/2023 11:28	2.51	NTU
GN-AP-MW-39	COND	Conductivity	7/19/2023 11:33	222.77	uS/cm
GN-AP-MW-39	DO	DO	7/19/2023 11:33	0.36	mg/L
GN-AP-MW-39	DTW	Depth to Water Detail	7/19/2023 11:33	20.54	ft
GN-AP-MW-39	ORP	Oxidation Reduction Potention	7/19/2023 11:33	-71.27	mv
GN-AP-MW-39	PH	pH	7/19/2023 11:33	7.04	SU
GN-AP-MW-39	SULFIDE	Sulfide	7/19/2023 11:33	0	mg/L
GN-AP-MW-39	TEMP	Temperature	7/19/2023 11:33	20.33	C
GN-AP-MW-39	TURB	Turbidity	7/19/2023 11:33	1.27	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-40	COND	Conductivity	7/19/2023 10:22	181.69	uS/cm
GN-AP-MW-40	DO	DO	7/19/2023 10:22	7.33	mg/L
GN-AP-MW-40	DTW	Depth to Water Detail	7/19/2023 10:22	17.66	ft
GN-AP-MW-40	ORP	Oxidation Reduction Potention	7/19/2023 10:22	186.07	mv
GN-AP-MW-40	PH	pH	7/19/2023 10:22	7.55	SU
GN-AP-MW-40	TEMP	Temperature	7/19/2023 10:22	19.8	C
GN-AP-MW-40	TURB	Turbidity	7/19/2023 10:22	6.76	NTU
GN-AP-MW-40	COND	Conductivity	7/19/2023 10:27	181.49	uS/cm
GN-AP-MW-40	DO	DO	7/19/2023 10:27	7.27	mg/L
GN-AP-MW-40	DTW	Depth to Water Detail	7/19/2023 10:27	17.66	ft
GN-AP-MW-40	ORP	Oxidation Reduction Potention	7/19/2023 10:27	177.82	mv
GN-AP-MW-40	PH	pH	7/19/2023 10:27	7.65	SU
GN-AP-MW-40	TEMP	Temperature	7/19/2023 10:27	19.84	C
GN-AP-MW-40	TURB	Turbidity	7/19/2023 10:27	5.52	NTU
GN-AP-MW-40	COND	Conductivity	7/19/2023 10:32	180.98	uS/cm
GN-AP-MW-40	DO	DO	7/19/2023 10:32	7.27	mg/L
GN-AP-MW-40	DTW	Depth to Water Detail	7/19/2023 10:32	17.66	ft
GN-AP-MW-40	ORP	Oxidation Reduction Potention	7/19/2023 10:32	171.93	mv
GN-AP-MW-40	PH	pH	7/19/2023 10:32	7.71	SU
GN-AP-MW-40	SULFIDE	Sulfide	7/19/2023 10:32	0	mg/L
GN-AP-MW-40	TEMP	Temperature	7/19/2023 10:32	19.96	C
GN-AP-MW-40	TURB	Turbidity	7/19/2023 10:32	3.86	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-41	COND	Conductivity	7/19/2023 9:17	238.18	uS/cm
GN-AP-MW-41	DO	DO	7/19/2023 9:17	4.18	mg/L
GN-AP-MW-41	DTW	Depth to Water Detail	7/19/2023 9:17	10.7	ft
GN-AP-MW-41	ORP	Oxidation Reduction Potention	7/19/2023 9:17	202.19	mv
GN-AP-MW-41	PH	pH	7/19/2023 9:17	7.31	SU
GN-AP-MW-41	TEMP	Temperature	7/19/2023 9:17	18.45	C
GN-AP-MW-41	TURB	Turbidity	7/19/2023 9:17	15.7	NTU
GN-AP-MW-41	COND	Conductivity	7/19/2023 9:22	238.07	uS/cm
GN-AP-MW-41	DO	DO	7/19/2023 9:22	4.01	mg/L
GN-AP-MW-41	DTW	Depth to Water Detail	7/19/2023 9:22	10.7	ft
GN-AP-MW-41	ORP	Oxidation Reduction Potention	7/19/2023 9:22	183.13	mv
GN-AP-MW-41	PH	pH	7/19/2023 9:22	7.35	SU
GN-AP-MW-41	TEMP	Temperature	7/19/2023 9:22	18.39	C
GN-AP-MW-41	TURB	Turbidity	7/19/2023 9:22	10.35	NTU
GN-AP-MW-41	COND	Conductivity	7/19/2023 9:27	237.71	uS/cm
GN-AP-MW-41	DO	DO	7/19/2023 9:27	4.12	mg/L
GN-AP-MW-41	DTW	Depth to Water Detail	7/19/2023 9:27	10.7	ft
GN-AP-MW-41	ORP	Oxidation Reduction Potention	7/19/2023 9:27	171.37	mv
GN-AP-MW-41	PH	pH	7/19/2023 9:27	7.4	SU
GN-AP-MW-41	TEMP	Temperature	7/19/2023 9:27	18.47	C
GN-AP-MW-41	TURB	Turbidity	7/19/2023 9:27	7.14	NTU
GN-AP-MW-41	COND	Conductivity	7/19/2023 9:32	237.26	uS/cm
GN-AP-MW-41	DO	DO	7/19/2023 9:32	4.21	mg/L
GN-AP-MW-41	DTW	Depth to Water Detail	7/19/2023 9:32	10.7	ft
GN-AP-MW-41	ORP	Oxidation Reduction Potention	7/19/2023 9:32	164.9	mv
GN-AP-MW-41	PH	pH	7/19/2023 9:32	7.45	SU
GN-AP-MW-41	SULFIDE	Sulfide	7/19/2023 9:32	0	mg/L
GN-AP-MW-41	TEMP	Temperature	7/19/2023 9:32	18.44	C
GN-AP-MW-41	TURB	Turbidity	7/19/2023 9:32	7.34	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:02	36.73	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:02	7.46	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:02	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:02	145.83	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:02	5.05	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:02	20.34	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:02	1.76	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:07	38.14	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:07	7.49	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:07	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:07	152.56	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:07	5.01	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:07	19.73	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:07	3.12	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:12	41.8	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:12	7.44	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:12	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:12	162.47	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:12	5.01	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:12	20.05	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:12	3.21	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:17	51.98	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:17	7.41	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:17	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:17	168.6	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:17	5.11	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:17	19.61	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:17	2.41	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:22	64.93	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:22	7.36	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:22	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:22	172.17	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:22	5.29	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:22	19.54	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:22	2.81	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:27	78.27	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:27	7.35	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:27	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:27	174.51	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:27	5.4	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:27	19.6	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:27	3.13	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:32	88.91	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	DO	DO	7/18/2023 12:32	7.35	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:32	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:32	175.6	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:32	5.49	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:32	19.78	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:32	2.01	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:37	98.12	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:37	7.33	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:37	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:37	174.62	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:37	5.57	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:37	19.95	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:37	2.89	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:42	101.06	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:42	7.3	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:42	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:42	177.16	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:42	5.63	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:42	19.45	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:42	2.68	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:47	105.83	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:47	7.24	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:47	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:47	176.3	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:47	5.68	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:47	19.98	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:47	2.55	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:52	109.61	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:52	7.28	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:52	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:52	177.75	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:52	5.74	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:52	19.84	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:52	1.55	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 12:57	112.91	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 12:57	7.27	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 12:57	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 12:57	178.95	mv
GN-AP-MW-42	PH	pH	7/18/2023 12:57	5.8	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 12:57	19.52	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 12:57	1.84	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 13:02	116.15	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 13:02	7.26	mg/L

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 13:02	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 13:02	177.74	mv
GN-AP-MW-42	PH	pH	7/18/2023 13:02	5.84	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 13:02	19.86	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 13:02	1.56	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 13:07	119.66	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 13:07	7.23	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 13:07	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 13:07	175.12	mv
GN-AP-MW-42	PH	pH	7/18/2023 13:07	5.94	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 13:07	19.93	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 13:07	1.68	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 13:12	122.31	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 13:12	7.24	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 13:12	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 13:12	170.08	mv
GN-AP-MW-42	PH	pH	7/18/2023 13:12	6.03	SU
GN-AP-MW-42	TEMP	Temperature	7/18/2023 13:12	19.98	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 13:12	1.71	NTU
GN-AP-MW-42	COND	Conductivity	7/18/2023 13:17	124.24	uS/cm
GN-AP-MW-42	DO	DO	7/18/2023 13:17	7.34	mg/L
GN-AP-MW-42	DTW	Depth to Water Detail	7/18/2023 13:17	36.6	ft
GN-AP-MW-42	ORP	Oxidation Reduction Potention	7/18/2023 13:17	167.64	mv
GN-AP-MW-42	PH	pH	7/18/2023 13:17	6.13	SU
GN-AP-MW-42	SULFIDE	Sulfide	7/18/2023 13:17	0	mg/L
GN-AP-MW-42	TEMP	Temperature	7/18/2023 13:17	20.04	C
GN-AP-MW-42	TURB	Turbidity	7/18/2023 13:17	1.55	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-4	COND	Conductivity	7/25/2023 15:31	467.26	uS/cm
GN-AP-MW-4	DO	DO	7/25/2023 15:31	0.24	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	7/25/2023 15:31	24.32	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	7/25/2023 15:31	15.14	mv
GN-AP-MW-4	PH	pH	7/25/2023 15:31	7.14	SU
GN-AP-MW-4	TEMP	Temperature	7/25/2023 15:31	20.55	C
GN-AP-MW-4	TURB	Turbidity	7/25/2023 15:31	3.96	NTU
GN-AP-MW-4	COND	Conductivity	7/25/2023 15:36	464.11	uS/cm
GN-AP-MW-4	DO	DO	7/25/2023 15:36	0.27	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	7/25/2023 15:36	24.32	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	7/25/2023 15:36	34.62	mv
GN-AP-MW-4	PH	pH	7/25/2023 15:36	7.12	SU
GN-AP-MW-4	TEMP	Temperature	7/25/2023 15:36	20.57	C
GN-AP-MW-4	TURB	Turbidity	7/25/2023 15:36	3.4	NTU
GN-AP-MW-4	COND	Conductivity	7/25/2023 15:41	450.47	uS/cm
GN-AP-MW-4	DO	DO	7/25/2023 15:41	0.66	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	7/25/2023 15:41	24.32	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	7/25/2023 15:41	43.17	mv
GN-AP-MW-4	PH	pH	7/25/2023 15:41	7.13	SU
GN-AP-MW-4	TEMP	Temperature	7/25/2023 15:41	20.5	C
GN-AP-MW-4	TURB	Turbidity	7/25/2023 15:41	3.12	NTU
GN-AP-MW-4	COND	Conductivity	7/25/2023 15:46	441.21	uS/cm
GN-AP-MW-4	DO	DO	7/25/2023 15:46	0.96	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	7/25/2023 15:46	24.32	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	7/25/2023 15:46	45.19	mv
GN-AP-MW-4	PH	pH	7/25/2023 15:46	7.13	SU
GN-AP-MW-4	TEMP	Temperature	7/25/2023 15:46	20.5	C
GN-AP-MW-4	TURB	Turbidity	7/25/2023 15:46	2.88	NTU
GN-AP-MW-4	COND	Conductivity	7/25/2023 15:51	436.95	uS/cm
GN-AP-MW-4	DO	DO	7/25/2023 15:51	1.04	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	7/25/2023 15:51	24.32	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	7/25/2023 15:51	45.84	mv
GN-AP-MW-4	PH	pH	7/25/2023 15:51	7.17	SU
GN-AP-MW-4	TEMP	Temperature	7/25/2023 15:51	20.56	C
GN-AP-MW-4	TURB	Turbidity	7/25/2023 15:51	2.82	NTU
GN-AP-MW-4	COND	Conductivity	7/25/2023 15:56	433.52	uS/cm
GN-AP-MW-4	DO	DO	7/25/2023 15:56	1.1	mg/L
GN-AP-MW-4	DTW	Depth to Water Detail	7/25/2023 15:56	24.32	ft
GN-AP-MW-4	ORP	Oxidation Reduction Potention	7/25/2023 15:56	45.12	mv
GN-AP-MW-4	PH	pH	7/25/2023 15:56	7.2	SU
GN-AP-MW-4	SULFIDE	Sulfide	7/25/2023 15:56	0	mg/L
GN-AP-MW-4	TEMP	Temperature	7/25/2023 15:56	20.26	C
GN-AP-MW-4	TURB	Turbidity	7/25/2023 15:56	2.71	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-16	COND	Conductivity	7/19/2023 9:23	885.92	uS/cm
GN-AP-MW-16	DO	DO	7/19/2023 9:23	0.15	mg/L
GN-AP-MW-16	DTW	Depth to Water Detail	7/19/2023 9:23	23.6	ft
GN-AP-MW-16	ORP	Oxidation Reduction Potention	7/19/2023 9:23	-154.61	mv
GN-AP-MW-16	PH	pH	7/19/2023 9:23	7.98	SU
GN-AP-MW-16	TEMP	Temperature	7/19/2023 9:23	21.38	C
GN-AP-MW-16	TURB	Turbidity	7/19/2023 9:23	4.43	NTU
GN-AP-MW-16	COND	Conductivity	7/19/2023 9:28	922.95	uS/cm
GN-AP-MW-16	DO	DO	7/19/2023 9:28	0.11	mg/L
GN-AP-MW-16	DTW	Depth to Water Detail	7/19/2023 9:28	23.6	ft
GN-AP-MW-16	ORP	Oxidation Reduction Potention	7/19/2023 9:28	-161.48	mv
GN-AP-MW-16	PH	pH	7/19/2023 9:28	7.9	SU
GN-AP-MW-16	TEMP	Temperature	7/19/2023 9:28	21.37	C
GN-AP-MW-16	TURB	Turbidity	7/19/2023 9:28	2.87	NTU
GN-AP-MW-16	COND	Conductivity	7/19/2023 9:33	933.2	uS/cm
GN-AP-MW-16	DO	DO	7/19/2023 9:33	0.1	mg/L
GN-AP-MW-16	DTW	Depth to Water Detail	7/19/2023 9:33	23.6	ft
GN-AP-MW-16	ORP	Oxidation Reduction Potention	7/19/2023 9:33	-164.11	mv
GN-AP-MW-16	PH	pH	7/19/2023 9:33	7.87	SU
GN-AP-MW-16	TEMP	Temperature	7/19/2023 9:33	21.38	C
GN-AP-MW-16	TURB	Turbidity	7/19/2023 9:33	2.6	NTU
GN-AP-MW-16	COND	Conductivity	7/19/2023 9:38	942.82	uS/cm
GN-AP-MW-16	DO	DO	7/19/2023 9:38	0.09	mg/L
GN-AP-MW-16	DTW	Depth to Water Detail	7/19/2023 9:38	23.6	ft
GN-AP-MW-16	ORP	Oxidation Reduction Potention	7/19/2023 9:38	-165.17	mv
GN-AP-MW-16	PH	pH	7/19/2023 9:38	7.84	SU
GN-AP-MW-16	SULFIDE	Sulfide	7/19/2023 9:38	0	mg/L
GN-AP-MW-16	TEMP	Temperature	7/19/2023 9:38	21.36	C
GN-AP-MW-16	TURB	Turbidity	7/19/2023 9:38	2.49	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-16V	COND	Conductivity	7/19/2023 8:08	678.97	uS/cm
GN-AP-MW-16V	DO	DO	7/19/2023 8:08	1.74	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	7/19/2023 8:08	22.06	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	7/19/2023 8:08	11.44	mv
GN-AP-MW-16V	PH	pH	7/19/2023 8:08	8.28	SU
GN-AP-MW-16V	TEMP	Temperature	7/19/2023 8:08	22	C
GN-AP-MW-16V	TURB	Turbidity	7/19/2023 8:08	13.5	NTU
GN-AP-MW-16V	COND	Conductivity	7/19/2023 8:13	679.42	uS/cm
GN-AP-MW-16V	DO	DO	7/19/2023 8:13	1.08	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	7/19/2023 8:13	22.38	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	7/19/2023 8:13	-41.43	mv
GN-AP-MW-16V	PH	pH	7/19/2023 8:13	8.32	SU
GN-AP-MW-16V	TEMP	Temperature	7/19/2023 8:13	22.22	C
GN-AP-MW-16V	TURB	Turbidity	7/19/2023 8:13	14.3	NTU
GN-AP-MW-16V	COND	Conductivity	7/19/2023 8:18	675.73	uS/cm
GN-AP-MW-16V	DO	DO	7/19/2023 8:18	0.73	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	7/19/2023 8:18	22.86	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	7/19/2023 8:18	-85.15	mv
GN-AP-MW-16V	PH	pH	7/19/2023 8:18	8.33	SU
GN-AP-MW-16V	TEMP	Temperature	7/19/2023 8:18	22.16	C
GN-AP-MW-16V	TURB	Turbidity	7/19/2023 8:18	8.44	NTU
GN-AP-MW-16V	COND	Conductivity	7/19/2023 8:23	669.19	uS/cm
GN-AP-MW-16V	DO	DO	7/19/2023 8:23	0.56	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	7/19/2023 8:23	23.04	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	7/19/2023 8:23	-133.23	mv
GN-AP-MW-16V	PH	pH	7/19/2023 8:23	8.33	SU
GN-AP-MW-16V	TEMP	Temperature	7/19/2023 8:23	22.26	C
GN-AP-MW-16V	TURB	Turbidity	7/19/2023 8:23	5.94	NTU
GN-AP-MW-16V	COND	Conductivity	7/19/2023 8:28	662.22	uS/cm
GN-AP-MW-16V	DO	DO	7/19/2023 8:28	0.49	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	7/19/2023 8:28	23.18	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	7/19/2023 8:28	-155.4	mv
GN-AP-MW-16V	PH	pH	7/19/2023 8:28	8.33	SU
GN-AP-MW-16V	TEMP	Temperature	7/19/2023 8:28	22.36	C
GN-AP-MW-16V	TURB	Turbidity	7/19/2023 8:28	4.68	NTU
GN-AP-MW-16V	COND	Conductivity	7/19/2023 8:33	660.34	uS/cm
GN-AP-MW-16V	DO	DO	7/19/2023 8:33	0.46	mg/L
GN-AP-MW-16V	DTW	Depth to Water Detail	7/19/2023 8:33	23.3	ft
GN-AP-MW-16V	ORP	Oxidation Reduction Potention	7/19/2023 8:33	-163.03	mv
GN-AP-MW-16V	PH	pH	7/19/2023 8:33	8.33	SU
GN-AP-MW-16V	SULFIDE	Sulfide	7/19/2023 8:33	0	mg/L
GN-AP-MW-16V	TEMP	Temperature	7/19/2023 8:33	22.54	C
GN-AP-MW-16V	TURB	Turbidity	7/19/2023 8:33	4.6	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17	COND	Conductivity	7/25/2023 7:42	2478.73	uS/cm
GN-AP-MW-17	DO	DO	7/25/2023 7:42	0.32	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	7/25/2023 7:42	9.57	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	7/25/2023 7:42	-111.94	mv
GN-AP-MW-17	PH	pH	7/25/2023 7:42	9.25	SU
GN-AP-MW-17	TEMP	Temperature	7/25/2023 7:42	21.22	C
GN-AP-MW-17	TURB	Turbidity	7/25/2023 7:42	1.68	NTU
GN-AP-MW-17	COND	Conductivity	7/25/2023 7:47	2327.71	uS/cm
GN-AP-MW-17	DO	DO	7/25/2023 7:47	0.25	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	7/25/2023 7:47	10.21	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	7/25/2023 7:47	-120.67	mv
GN-AP-MW-17	PH	pH	7/25/2023 7:47	9.11	SU
GN-AP-MW-17	TEMP	Temperature	7/25/2023 7:47	21.22	C
GN-AP-MW-17	TURB	Turbidity	7/25/2023 7:47	1.12	NTU
GN-AP-MW-17	COND	Conductivity	7/25/2023 7:52	2283.7	uS/cm
GN-AP-MW-17	DO	DO	7/25/2023 7:52	0.22	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	7/25/2023 7:52	10.53	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	7/25/2023 7:52	-130.57	mv
GN-AP-MW-17	PH	pH	7/25/2023 7:52	9.12	SU
GN-AP-MW-17	TEMP	Temperature	7/25/2023 7:52	21.2	C
GN-AP-MW-17	TURB	Turbidity	7/25/2023 7:52	0.98	NTU
GN-AP-MW-17	COND	Conductivity	7/25/2023 7:57	2219.24	uS/cm
GN-AP-MW-17	DO	DO	7/25/2023 7:57	0.21	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	7/25/2023 7:57	10.82	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	7/25/2023 7:57	-137.65	mv
GN-AP-MW-17	PH	pH	7/25/2023 7:57	9.13	SU
GN-AP-MW-17	TEMP	Temperature	7/25/2023 7:57	21.2	C
GN-AP-MW-17	TURB	Turbidity	7/25/2023 7:57	0.82	NTU
GN-AP-MW-17	COND	Conductivity	7/25/2023 8:02	2239.13	uS/cm
GN-AP-MW-17	DO	DO	7/25/2023 8:02	0.2	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	7/25/2023 8:02	10.95	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	7/25/2023 8:02	-142.84	mv
GN-AP-MW-17	PH	pH	7/25/2023 8:02	9.15	SU
GN-AP-MW-17	TEMP	Temperature	7/25/2023 8:02	21.18	C
GN-AP-MW-17	TURB	Turbidity	7/25/2023 8:02	0.86	NTU
GN-AP-MW-17	COND	Conductivity	7/25/2023 8:07	2214.14	uS/cm
GN-AP-MW-17	DO	DO	7/25/2023 8:07	0.19	mg/L
GN-AP-MW-17	DTW	Depth to Water Detail	7/25/2023 8:07	11.04	ft
GN-AP-MW-17	ORP	Oxidation Reduction Potention	7/25/2023 8:07	-146.26	mv
GN-AP-MW-17	PH	pH	7/25/2023 8:07	9.16	SU
GN-AP-MW-17	SULFIDE	Sulfide	7/25/2023 8:07	0	mg/L
GN-AP-MW-17	TEMP	Temperature	7/25/2023 8:07	21.19	C
GN-AP-MW-17	TURB	Turbidity	7/25/2023 8:07	0.78	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17SV	COND	Conductivity	7/24/2023 14:11	1275.71	uS/cm
GN-AP-MW-17SV	DO	DO	7/24/2023 14:11	0.15	mg/L
GN-AP-MW-17SV	DTW	Depth to Water Detail	7/24/2023 14:11	10.49	ft
GN-AP-MW-17SV	ORP	Oxidation Reduction Potention	7/24/2023 14:11	-119.03	mv
GN-AP-MW-17SV	PH	pH	7/24/2023 14:11	7.25	SU
GN-AP-MW-17SV	TEMP	Temperature	7/24/2023 14:11	21.65	C
GN-AP-MW-17SV	TURB	Turbidity	7/24/2023 14:11	4.28	NTU
GN-AP-MW-17SV	COND	Conductivity	7/24/2023 14:16	1277.99	uS/cm
GN-AP-MW-17SV	DO	DO	7/24/2023 14:16	0.13	mg/L
GN-AP-MW-17SV	DTW	Depth to Water Detail	7/24/2023 14:16	10.49	ft
GN-AP-MW-17SV	ORP	Oxidation Reduction Potention	7/24/2023 14:16	-114.38	mv
GN-AP-MW-17SV	PH	pH	7/24/2023 14:16	7.23	SU
GN-AP-MW-17SV	TEMP	Temperature	7/24/2023 14:16	21.61	C
GN-AP-MW-17SV	TURB	Turbidity	7/24/2023 14:16	3.64	NTU
GN-AP-MW-17SV	COND	Conductivity	7/24/2023 14:21	1274.09	uS/cm
GN-AP-MW-17SV	DO	DO	7/24/2023 14:21	0.12	mg/L
GN-AP-MW-17SV	DTW	Depth to Water Detail	7/24/2023 14:21	10.49	ft
GN-AP-MW-17SV	ORP	Oxidation Reduction Potention	7/24/2023 14:21	-115.11	mv
GN-AP-MW-17SV	PH	pH	7/24/2023 14:21	7.25	SU
GN-AP-MW-17SV	TEMP	Temperature	7/24/2023 14:21	21.7	C
GN-AP-MW-17SV	TURB	Turbidity	7/24/2023 14:21	3.16	NTU
GN-AP-MW-17SV	COND	Conductivity	7/24/2023 14:26	1276.38	uS/cm
GN-AP-MW-17SV	DO	DO	7/24/2023 14:26	0.11	mg/L
GN-AP-MW-17SV	DTW	Depth to Water Detail	7/24/2023 14:26	10.49	ft
GN-AP-MW-17SV	ORP	Oxidation Reduction Potention	7/24/2023 14:26	-114.23	mv
GN-AP-MW-17SV	PH	pH	7/24/2023 14:26	7.24	SU
GN-AP-MW-17SV	SULFIDE	Sulfide	7/24/2023 14:26	0	mg/L
GN-AP-MW-17SV	TEMP	Temperature	7/24/2023 14:26	21.74	C
GN-AP-MW-17SV	TURB	Turbidity	7/24/2023 14:26	3.24	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:11	1198.07	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:11	0.52	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:11	8.68	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:11	-144.47	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:11	8.1	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:11	23.1	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:11	43.6	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:16	1129.22	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:16	0.4	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:16	10.26	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:16	-179.21	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:16	8.07	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:16	23.14	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:16	36.1	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:21	1094.98	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:21	0.37	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:21	12.29	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:21	-195.27	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:21	8.08	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:21	23.18	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:21	18.9	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:26	1087.92	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:26	0.36	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:26	13.66	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:26	-205.9	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:26	8.1	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:26	23.22	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:26	13.2	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:31	1086.1	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:31	0.35	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:31	14.98	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:31	-212.87	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:31	8.12	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:31	23.18	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:31	7.57	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:36	1096.11	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:36	0.35	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:36	16.34	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:36	-217.21	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:36	8.15	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:36	23.05	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:36	7.21	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:41	1102.08	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-17V	DO	DO	7/24/2023 12:41	0.35	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:41	17.71	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:41	-219.93	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:41	8.17	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:41	23.05	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:41	6.54	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:46	1101.8	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:46	0.35	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:46	18.78	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:46	-223.04	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:46	8.18	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:46	23.04	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:46	5.28	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:51	1111.2	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:51	0.34	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:51	19.67	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:51	-224.53	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:51	8.2	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:51	23.09	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:51	5.23	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 12:56	1126.27	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 12:56	0.66	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 12:56	19.69	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 12:56	-211.96	mv
GN-AP-MW-17V	PH	pH	7/24/2023 12:56	8.17	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 12:56	25.56	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 12:56	5.82	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 13:01	1119.64	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 13:01	0.78	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 13:01	19.72	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 13:01	-209.52	mv
GN-AP-MW-17V	PH	pH	7/24/2023 13:01	8.18	SU
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 13:01	26.33	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 13:01	5.67	NTU
GN-AP-MW-17V	COND	Conductivity	7/24/2023 13:06	1138.97	uS/cm
GN-AP-MW-17V	DO	DO	7/24/2023 13:06	0.86	mg/L
GN-AP-MW-17V	DTW	Depth to Water Detail	7/24/2023 13:06	19.73	ft
GN-AP-MW-17V	ORP	Oxidation Reduction Potention	7/24/2023 13:06	-205.12	mv
GN-AP-MW-17V	PH	pH	7/24/2023 13:06	8.21	SU
GN-AP-MW-17V	SULFIDE	Sulfide	7/24/2023 13:06	0	mg/L
GN-AP-MW-17V	TEMP	Temperature	7/24/2023 13:06	25.75	C
GN-AP-MW-17V	TURB	Turbidity	7/24/2023 13:06	5.6	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-18	COND	Conductivity	7/25/2023 8:49	750.17	uS/cm
GN-AP-MW-18	DO	DO	7/25/2023 8:49	0.23	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	7/25/2023 8:49	20.37	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	7/25/2023 8:49	-23.07	mv
GN-AP-MW-18	PH	pH	7/25/2023 8:49	6.96	SU
GN-AP-MW-18	TEMP	Temperature	7/25/2023 8:49	20.19	C
GN-AP-MW-18	TURB	Turbidity	7/25/2023 8:49	2.16	NTU
GN-AP-MW-18	COND	Conductivity	7/25/2023 8:54	781.87	uS/cm
GN-AP-MW-18	DO	DO	7/25/2023 8:54	0.18	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	7/25/2023 8:54	20.37	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	7/25/2023 8:54	-15.55	mv
GN-AP-MW-18	PH	pH	7/25/2023 8:54	6.91	SU
GN-AP-MW-18	TEMP	Temperature	7/25/2023 8:54	20.19	C
GN-AP-MW-18	TURB	Turbidity	7/25/2023 8:54	1.8	NTU
GN-AP-MW-18	COND	Conductivity	7/25/2023 8:59	806.87	uS/cm
GN-AP-MW-18	DO	DO	7/25/2023 8:59	0.16	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	7/25/2023 8:59	20.37	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	7/25/2023 8:59	-18.1	mv
GN-AP-MW-18	PH	pH	7/25/2023 8:59	6.9	SU
GN-AP-MW-18	TEMP	Temperature	7/25/2023 8:59	20.17	C
GN-AP-MW-18	TURB	Turbidity	7/25/2023 8:59	1.65	NTU
GN-AP-MW-18	COND	Conductivity	7/25/2023 9:04	810.12	uS/cm
GN-AP-MW-18	DO	DO	7/25/2023 9:04	0.15	mg/L
GN-AP-MW-18	DTW	Depth to Water Detail	7/25/2023 9:04	20.37	ft
GN-AP-MW-18	ORP	Oxidation Reduction Potention	7/25/2023 9:04	-20.24	mv
GN-AP-MW-18	PH	pH	7/25/2023 9:04	6.9	SU
GN-AP-MW-18	SULFIDE	Sulfide	7/25/2023 9:04	0	mg/L
GN-AP-MW-18	TEMP	Temperature	7/25/2023 9:04	20.15	C
GN-AP-MW-18	TURB	Turbidity	7/25/2023 9:04	1.58	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:04	392.96	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:04	1.89	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:04	9.23	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:04	88.99	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:04	7.5	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:04	24.9	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:04	14.5	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:09	384.8	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:09	3.62	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:09	12.29	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:09	99.89	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:09	7.52	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:09	23.86	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:09	12.2	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:14	374.83	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:14	5.12	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:14	16.32	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:14	103.94	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:14	7.54	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:14	24.12	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:14	12.3	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:19	361.9	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:19	5.21	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:19	20.12	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:19	105.37	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:19	7.55	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:19	23.6	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:19	10.39	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:24	378.82	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:24	5.52	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:24	24.32	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:24	106.36	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:24	7.56	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:24	23.97	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:24	15.6	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:29	364.66	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:29	5.71	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:29	28.12	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:29	109.74	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:29	7.58	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:29	23.42	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:29	9.81	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:34	346.49	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	DO	DO	7/18/2023 11:34	6.03	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:34	31.29	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:34	114.51	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:34	7.58	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:34	23.05	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:34	8.91	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:39	328.81	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:39	6.14	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:39	33.02	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:39	115.68	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:39	7.59	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:39	23.17	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:39	8.8	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:44	372.53	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:44	6.46	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:44	35.43	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:44	115.56	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:44	7.6	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:44	23.15	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:44	7.68	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:49	362.57	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:49	6.65	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:49	36.98	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:49	97.48	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:49	7.6	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:49	23.29	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:49	8.01	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:54	348.2	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:54	6.14	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:54	36.76	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:54	77.49	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:54	7.58	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:54	27.01	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:54	11.5	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 11:59	339.17	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 11:59	4.67	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 11:59	36.89	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 11:59	38.63	mv
GN-AP-MW-19	PH	pH	7/18/2023 11:59	7.57	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 11:59	28.01	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 11:59	11.6	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:04	328.65	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:04	3.54	mg/L

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:04	37.11	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:04	-33.79	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:04	7.56	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:04	28.41	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:04	10.39	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:09	382.38	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:09	3.03	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:09	37.26	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:09	-72.45	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:09	7.56	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:09	29.26	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:09	10.68	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:14	377.4	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:14	2.68	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:14	37.43	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:14	-125.54	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:14	7.58	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:14	29.67	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:14	11.4	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:19	372.92	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:19	2.48	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:19	37.58	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:19	-138.19	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:19	7.59	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:19	29.64	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:19	10.27	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:24	368.77	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:24	2.47	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:24	37.75	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:24	-141.28	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:24	7.59	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:24	29.53	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:24	9.23	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:29	363.58	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:29	2.36	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:29	37.89	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:29	-142.98	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:29	7.59	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:29	30.47	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:29	14.8	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:34	356.32	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:34	2.32	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:34	38.07	ft

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:34	-145.14	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:34	7.6	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:34	28.69	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:34	13.6	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:39	351.41	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:39	2.26	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:39	38.19	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:39	-146.41	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:39	7.59	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:39	29.84	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:39	12.5	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:44	345.76	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:44	2.21	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:44	38.35	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:44	-147.06	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:44	7.6	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:44	29.65	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:44	13.1	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:49	335.22	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:49	2.2	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:49	38.47	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:49	-147.43	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:49	7.61	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:49	29.12	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:49	11.7	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:54	384.7	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:54	2.31	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:54	38.63	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:54	-147.14	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:54	7.61	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:54	27.53	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:54	11.2	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 12:59	379.73	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 12:59	2.2	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 12:59	38.76	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 12:59	-148.06	mv
GN-AP-MW-19	PH	pH	7/18/2023 12:59	7.6	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 12:59	27.85	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 12:59	11.6	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 13:04	375.09	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 13:04	2.19	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 13:04	38.89	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 13:04	-147.01	mv

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-19	PH	pH	7/18/2023 13:04	7.61	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 13:04	29.4	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 13:04	10	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 13:09	373.2	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 13:09	2.14	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 13:09	39.02	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 13:09	-147.36	mv
GN-AP-MW-19	PH	pH	7/18/2023 13:09	7.61	SU
GN-AP-MW-19	TEMP	Temperature	7/18/2023 13:09	29.58	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 13:09	10.5	NTU
GN-AP-MW-19	COND	Conductivity	7/18/2023 13:14	370.88	uS/cm
GN-AP-MW-19	DO	DO	7/18/2023 13:14	2.04	mg/L
GN-AP-MW-19	DTW	Depth to Water Detail	7/18/2023 13:14	39.17	ft
GN-AP-MW-19	ORP	Oxidation Reduction Potention	7/18/2023 13:14	-148.19	mv
GN-AP-MW-19	PH	pH	7/18/2023 13:14	7.61	SU
GN-AP-MW-19	SULFIDE	Sulfide	7/18/2023 13:14	0	mg/L
GN-AP-MW-19	TEMP	Temperature	7/18/2023 13:14	30.04	C
GN-AP-MW-19	TURB	Turbidity	7/18/2023 13:14	9.73	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20	COND	Conductivity	7/25/2023 12:21	1076.52	uS/cm
GN-AP-MW-20	DO	DO	7/25/2023 12:21	0.3	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	7/25/2023 12:21	10.7	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	7/25/2023 12:21	-94.74	mv
GN-AP-MW-20	PH	pH	7/25/2023 12:21	7.89	SU
GN-AP-MW-20	TEMP	Temperature	7/25/2023 12:21	21.71	C
GN-AP-MW-20	TURB	Turbidity	7/25/2023 12:21	3.44	NTU
GN-AP-MW-20	COND	Conductivity	7/25/2023 12:26	1071.28	uS/cm
GN-AP-MW-20	DO	DO	7/25/2023 12:26	0.21	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	7/25/2023 12:26	10.86	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	7/25/2023 12:26	-119.36	mv
GN-AP-MW-20	PH	pH	7/25/2023 12:26	7.9	SU
GN-AP-MW-20	TEMP	Temperature	7/25/2023 12:26	21.75	C
GN-AP-MW-20	TURB	Turbidity	7/25/2023 12:26	2.89	NTU
GN-AP-MW-20	COND	Conductivity	7/25/2023 12:31	1072.59	uS/cm
GN-AP-MW-20	DO	DO	7/25/2023 12:31	0.18	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	7/25/2023 12:31	10.95	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	7/25/2023 12:31	-123.38	mv
GN-AP-MW-20	PH	pH	7/25/2023 12:31	7.91	SU
GN-AP-MW-20	TEMP	Temperature	7/25/2023 12:31	21.67	C
GN-AP-MW-20	TURB	Turbidity	7/25/2023 12:31	2.82	NTU
GN-AP-MW-20	COND	Conductivity	7/25/2023 12:36	1071.2	uS/cm
GN-AP-MW-20	DO	DO	7/25/2023 12:36	0.17	mg/L
GN-AP-MW-20	DTW	Depth to Water Detail	7/25/2023 12:36	10.95	ft
GN-AP-MW-20	ORP	Oxidation Reduction Potention	7/25/2023 12:36	-117.5	mv
GN-AP-MW-20	PH	pH	7/25/2023 12:36	7.91	SU
GN-AP-MW-20	SULFIDE	Sulfide	7/25/2023 12:36	0	mg/L
GN-AP-MW-20	TEMP	Temperature	7/25/2023 12:36	21.67	C
GN-AP-MW-20	TURB	Turbidity	7/25/2023 12:36	2.76	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:00	887.94	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:00	0.12	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:00	12.26	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:00	-143.52	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:00	7.11	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:00	20.38	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:00	80.2	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:05	878.56	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:05	0.09	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:05	12.59	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:05	-142.93	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:05	7.11	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:05	20.32	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:05	66.5	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:10	869.61	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:10	0.09	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:10	12.62	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:10	-139.6	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:10	7.09	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:10	20.29	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:10	42.9	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:15	865.84	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:15	0.08	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:15	12.62	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:15	-139.58	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:15	7.09	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:15	20.27	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:15	25.9	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:20	865.26	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:20	0.07	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:20	12.62	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:20	-140	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:20	7.1	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:20	20.25	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:20	19.9	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:25	866.63	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:25	0.09	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:25	12.62	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:25	-140.79	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:25	7.1	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:25	20.24	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:25	13.2	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:30	866.44	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20SV	DO	DO	7/25/2023 11:30	0.08	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:30	12.62	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:30	-141.29	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:30	7.11	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:30	20.14	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:30	11.7	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:35	868.38	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:35	0	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:35	12.62	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:35	-141.84	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:35	7.12	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:35	20.18	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:35	10.7	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:40	869.15	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:40	0.09	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:40	12.62	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:40	-141.4	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:40	7.12	SU
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:40	20.17	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:40	9.36	NTU
GN-AP-MW-20SV	COND	Conductivity	7/25/2023 11:45	870.31	uS/cm
GN-AP-MW-20SV	DO	DO	7/25/2023 11:45	0.09	mg/L
GN-AP-MW-20SV	DTW	Depth to Water Detail	7/25/2023 11:45	12.62	ft
GN-AP-MW-20SV	ORP	Oxidation Reduction Potention	7/25/2023 11:45	-141.87	mv
GN-AP-MW-20SV	PH	pH	7/25/2023 11:45	7.12	SU
GN-AP-MW-20SV	SULFIDE	Sulfide	7/25/2023 11:45	0	mg/L
GN-AP-MW-20SV	TEMP	Temperature	7/25/2023 11:45	20.18	C
GN-AP-MW-20SV	TURB	Turbidity	7/25/2023 11:45	8.92	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-20V	COND	Conductivity	7/25/2023 9:50	965.34	uS/cm
GN-AP-MW-20V	DO	DO	7/25/2023 9:50	0.24	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	7/25/2023 9:50	10.82	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	7/25/2023 9:50	-221.39	mv
GN-AP-MW-20V	PH	pH	7/25/2023 9:50	8.08	SU
GN-AP-MW-20V	TEMP	Temperature	7/25/2023 9:50	21.75	C
GN-AP-MW-20V	TURB	Turbidity	7/25/2023 9:50	16.6	NTU
GN-AP-MW-20V	COND	Conductivity	7/25/2023 9:55	964.67	uS/cm
GN-AP-MW-20V	DO	DO	7/25/2023 9:55	0.25	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	7/25/2023 9:55	11.56	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	7/25/2023 9:55	-215.7	mv
GN-AP-MW-20V	PH	pH	7/25/2023 9:55	8.09	SU
GN-AP-MW-20V	TEMP	Temperature	7/25/2023 9:55	21.86	C
GN-AP-MW-20V	TURB	Turbidity	7/25/2023 9:55	6.57	NTU
GN-AP-MW-20V	COND	Conductivity	7/25/2023 10:00	963.69	uS/cm
GN-AP-MW-20V	DO	DO	7/25/2023 10:00	0.28	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	7/25/2023 10:00	11.83	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	7/25/2023 10:00	-209.21	mv
GN-AP-MW-20V	PH	pH	7/25/2023 10:00	8.1	SU
GN-AP-MW-20V	TEMP	Temperature	7/25/2023 10:00	21.87	C
GN-AP-MW-20V	TURB	Turbidity	7/25/2023 10:00	5.85	NTU
GN-AP-MW-20V	COND	Conductivity	7/25/2023 10:05	965.56	uS/cm
GN-AP-MW-20V	DO	DO	7/25/2023 10:05	0.3	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	7/25/2023 10:05	12.14	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	7/25/2023 10:05	-203.86	mv
GN-AP-MW-20V	PH	pH	7/25/2023 10:05	8.1	SU
GN-AP-MW-20V	TEMP	Temperature	7/25/2023 10:05	21.89	C
GN-AP-MW-20V	TURB	Turbidity	7/25/2023 10:05	6.36	NTU
GN-AP-MW-20V	COND	Conductivity	7/25/2023 10:10	965.93	uS/cm
GN-AP-MW-20V	DO	DO	7/25/2023 10:10	0.33	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	7/25/2023 10:10	12.19	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	7/25/2023 10:10	-199.14	mv
GN-AP-MW-20V	PH	pH	7/25/2023 10:10	8.1	SU
GN-AP-MW-20V	TEMP	Temperature	7/25/2023 10:10	21.82	C
GN-AP-MW-20V	TURB	Turbidity	7/25/2023 10:10	6.13	NTU
GN-AP-MW-20V	COND	Conductivity	7/25/2023 10:15	963.58	uS/cm
GN-AP-MW-20V	DO	DO	7/25/2023 10:15	0.35	mg/L
GN-AP-MW-20V	DTW	Depth to Water Detail	7/25/2023 10:15	12.21	ft
GN-AP-MW-20V	ORP	Oxidation Reduction Potention	7/25/2023 10:15	-195.09	mv
GN-AP-MW-20V	PH	pH	7/25/2023 10:15	8.1	SU
GN-AP-MW-20V	SULFIDE	Sulfide	7/25/2023 10:15	0	mg/L
GN-AP-MW-20V	TEMP	Temperature	7/25/2023 10:15	21.99	C
GN-AP-MW-20V	TURB	Turbidity	7/25/2023 10:15	6.01	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-28H	COND	Conductivity	7/19/2023 10:25	482.8	uS/cm
GN-AP-MW-28H	DO	DO	7/19/2023 10:25	0.52	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	7/19/2023 10:25	15.39	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	7/19/2023 10:25	-187.92	mv
GN-AP-MW-28H	PH	pH	7/19/2023 10:25	8.22	SU
GN-AP-MW-28H	TEMP	Temperature	7/19/2023 10:25	23.18	C
GN-AP-MW-28H	TURB	Turbidity	7/19/2023 10:25	1.09	NTU
GN-AP-MW-28H	COND	Conductivity	7/19/2023 10:30	482.02	uS/cm
GN-AP-MW-28H	DO	DO	7/19/2023 10:30	0.49	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	7/19/2023 10:30	15.55	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	7/19/2023 10:30	-189.56	mv
GN-AP-MW-28H	PH	pH	7/19/2023 10:30	8.21	SU
GN-AP-MW-28H	TEMP	Temperature	7/19/2023 10:30	23.16	C
GN-AP-MW-28H	TURB	Turbidity	7/19/2023 10:30	0.67	NTU
GN-AP-MW-28H	COND	Conductivity	7/19/2023 10:35	481.21	uS/cm
GN-AP-MW-28H	DO	DO	7/19/2023 10:35	0.52	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	7/19/2023 10:35	15.72	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	7/19/2023 10:35	-187.89	mv
GN-AP-MW-28H	PH	pH	7/19/2023 10:35	8.2	SU
GN-AP-MW-28H	TEMP	Temperature	7/19/2023 10:35	23.25	C
GN-AP-MW-28H	TURB	Turbidity	7/19/2023 10:35	0.39	NTU
GN-AP-MW-28H	COND	Conductivity	7/19/2023 10:40	482.57	uS/cm
GN-AP-MW-28H	DO	DO	7/19/2023 10:40	0.52	mg/L
GN-AP-MW-28H	DTW	Depth to Water Detail	7/19/2023 10:40	15.78	ft
GN-AP-MW-28H	ORP	Oxidation Reduction Potention	7/19/2023 10:40	-186.85	mv
GN-AP-MW-28H	PH	pH	7/19/2023 10:40	8.2	SU
GN-AP-MW-28H	SULFIDE	Sulfide	7/19/2023 10:40	0	mg/L
GN-AP-MW-28H	TEMP	Temperature	7/19/2023 10:40	23.21	C
GN-AP-MW-28H	TURB	Turbidity	7/19/2023 10:40	0.36	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	COND	Conductivity	7/19/2023 11:22	600.12	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 11:22	0.62	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 11:22	7.78	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 11:22	-173.4	mv
GN-AP-MW-29H	PH	pH	7/19/2023 11:22	8.32	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 11:22	22.88	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 11:22	7.21	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 11:27	596.48	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 11:27	0.25	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 11:27	9.06	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 11:27	-181.43	mv
GN-AP-MW-29H	PH	pH	7/19/2023 11:27	8.33	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 11:27	22.86	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 11:27	4.87	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 11:32	589.56	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 11:32	0.22	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 11:32	10.7	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 11:32	-180.16	mv
GN-AP-MW-29H	PH	pH	7/19/2023 11:32	8.32	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 11:32	22.86	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 11:32	4.12	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 11:37	587.88	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 11:37	0.2	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 11:37	12.35	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 11:37	-177.92	mv
GN-AP-MW-29H	PH	pH	7/19/2023 11:37	8.31	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 11:37	22.89	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 11:37	3.9	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 11:42	586.37	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 11:42	0.22	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 11:42	13.86	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 11:42	-176.32	mv
GN-AP-MW-29H	PH	pH	7/19/2023 11:42	8.3	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 11:42	22.87	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 11:42	3.77	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 11:47	586.87	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 11:47	0.21	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 11:47	14.96	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 11:47	-175.57	mv
GN-AP-MW-29H	PH	pH	7/19/2023 11:47	8.28	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 11:47	23.1	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 11:47	3.47	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 11:52	585.48	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	DO	DO	7/19/2023 11:52	0.27	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 11:52	16.09	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 11:52	-170.66	mv
GN-AP-MW-29H	PH	pH	7/19/2023 11:52	8.25	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 11:52	23.14	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 11:52	3.08	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 11:57	585.46	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 11:57	0.27	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 11:57	16.84	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 11:57	-168.32	mv
GN-AP-MW-29H	PH	pH	7/19/2023 11:57	8.22	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 11:57	23.59	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 11:57	2.98	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:02	582.73	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:02	0.31	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:02	17.54	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:02	-164.31	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:02	8.19	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:02	23.81	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:02	2.86	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:07	585.17	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:07	0.3	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:07	18.28	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:07	-165.09	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:07	8.18	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:07	23.89	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:07	2.68	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:12	584.72	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:12	0.31	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:12	18.52	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:12	-166.16	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:12	8.17	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:12	24.13	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:12	2.6	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:17	585.1	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:17	0.31	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:17	19.26	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:17	-166.16	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:17	8.16	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:17	24.5	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:17	2.64	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:22	586.8	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:22	0.35	mg/L

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:22	19.68	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:22	-165.67	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:22	8.14	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:22	25.21	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:22	2.44	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:27	586.64	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:27	0.37	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:27	19.95	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:27	-165.97	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:27	8.14	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:27	25.22	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:27	2.17	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:32	586.82	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:32	0.39	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:32	20.19	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:32	-167.06	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:32	8.15	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:32	25.03	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:32	2.13	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:37	588.3	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:37	0.41	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:37	20.41	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:37	-167.43	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:37	8.15	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:37	25.62	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:37	2.01	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:42	587.14	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:42	0.42	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:42	20.6	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:42	-167.44	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:42	8.15	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:42	25.75	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:42	2.04	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:47	588.32	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:47	0.44	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:47	20.74	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:47	-168.42	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:47	8.16	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:47	25.83	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:47	1.95	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:52	588.43	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:52	0.45	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:52	20.92	ft

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:52	-169.19	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:52	8.16	SU
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:52	25.84	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:52	2.11	NTU
GN-AP-MW-29H	COND	Conductivity	7/19/2023 12:57	588.81	uS/cm
GN-AP-MW-29H	DO	DO	7/19/2023 12:57	0.45	mg/L
GN-AP-MW-29H	DTW	Depth to Water Detail	7/19/2023 12:57	21.06	ft
GN-AP-MW-29H	ORP	Oxidation Reduction Potention	7/19/2023 12:57	-169.43	mv
GN-AP-MW-29H	PH	pH	7/19/2023 12:57	8.17	SU
GN-AP-MW-29H	SULFIDE	Sulfide	7/19/2023 12:57	0	mg/L
GN-AP-MW-29H	TEMP	Temperature	7/19/2023 12:57	25.88	C
GN-AP-MW-29H	TURB	Turbidity	7/19/2023 12:57	2.06	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-32V	COND	Conductivity	7/26/2023 10:12	598.59	uS/cm
GN-AP-MW-32V	DO	DO	7/26/2023 10:12	0.14	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	7/26/2023 10:12	50.31	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	7/26/2023 10:12	-275.59	mv
GN-AP-MW-32V	PH	pH	7/26/2023 10:12	7.87	SU
GN-AP-MW-32V	TEMP	Temperature	7/26/2023 10:12	22.79	C
GN-AP-MW-32V	TURB	Turbidity	7/26/2023 10:12	5.68	NTU
GN-AP-MW-32V	COND	Conductivity	7/26/2023 10:17	624	uS/cm
GN-AP-MW-32V	DO	DO	7/26/2023 10:17	0	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	7/26/2023 10:17	51.82	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	7/26/2023 10:17	-254.75	mv
GN-AP-MW-32V	PH	pH	7/26/2023 10:17	7.96	SU
GN-AP-MW-32V	TEMP	Temperature	7/26/2023 10:17	22.82	C
GN-AP-MW-32V	TURB	Turbidity	7/26/2023 10:17	4.32	NTU
GN-AP-MW-32V	COND	Conductivity	7/26/2023 10:22	620.95	uS/cm
GN-AP-MW-32V	DO	DO	7/26/2023 10:22	0.27	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	7/26/2023 10:22	51.68	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	7/26/2023 10:22	-245.83	mv
GN-AP-MW-32V	PH	pH	7/26/2023 10:22	7.83	SU
GN-AP-MW-32V	TEMP	Temperature	7/26/2023 10:22	24.56	C
GN-AP-MW-32V	TURB	Turbidity	7/26/2023 10:22	4.11	NTU
GN-AP-MW-32V	COND	Conductivity	7/26/2023 10:27	610.94	uS/cm
GN-AP-MW-32V	DO	DO	7/26/2023 10:27	0.25	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	7/26/2023 10:27	51.7	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	7/26/2023 10:27	-247.47	mv
GN-AP-MW-32V	PH	pH	7/26/2023 10:27	7.58	SU
GN-AP-MW-32V	TEMP	Temperature	7/26/2023 10:27	24.43	C
GN-AP-MW-32V	TURB	Turbidity	7/26/2023 10:27	4.08	NTU
GN-AP-MW-32V	COND	Conductivity	7/26/2023 10:32	603.99	uS/cm
GN-AP-MW-32V	DO	DO	7/26/2023 10:32	0.16	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	7/26/2023 10:32	51.71	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	7/26/2023 10:32	-253.61	mv
GN-AP-MW-32V	PH	pH	7/26/2023 10:32	7.46	SU
GN-AP-MW-32V	TEMP	Temperature	7/26/2023 10:32	24.08	C
GN-AP-MW-32V	TURB	Turbidity	7/26/2023 10:32	3.95	NTU
GN-AP-MW-32V	COND	Conductivity	7/26/2023 10:37	600.28	uS/cm
GN-AP-MW-32V	DO	DO	7/26/2023 10:37	0.14	mg/L
GN-AP-MW-32V	DTW	Depth to Water Detail	7/26/2023 10:37	51.71	ft
GN-AP-MW-32V	ORP	Oxidation Reduction Potention	7/26/2023 10:37	-257.76	mv
GN-AP-MW-32V	PH	pH	7/26/2023 10:37	7.45	SU
GN-AP-MW-32V	SULFIDE	Sulfide	7/26/2023 10:37	1	mg/L
GN-AP-MW-32V	TEMP	Temperature	7/26/2023 10:37	24.2	C
GN-AP-MW-32V	TURB	Turbidity	7/26/2023 10:37	3.92	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-37V	COND	Conductivity	7/26/2023 11:41	404.89	uS/cm
GN-AP-MW-37V	DO	DO	7/26/2023 11:41	0.94	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	7/26/2023 11:41	47.89	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	7/26/2023 11:41	-268.59	mv
GN-AP-MW-37V	PH	pH	7/26/2023 11:41	7.94	SU
GN-AP-MW-37V	TEMP	Temperature	7/26/2023 11:41	24.34	C
GN-AP-MW-37V	TURB	Turbidity	7/26/2023 11:41	6.7	NTU
GN-AP-MW-37V	COND	Conductivity	7/26/2023 11:46	411.62	uS/cm
GN-AP-MW-37V	DO	DO	7/26/2023 11:46	0.36	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	7/26/2023 11:46	48.16	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	7/26/2023 11:46	-283	mv
GN-AP-MW-37V	PH	pH	7/26/2023 11:46	8.06	SU
GN-AP-MW-37V	TEMP	Temperature	7/26/2023 11:46	24.74	C
GN-AP-MW-37V	TURB	Turbidity	7/26/2023 11:46	5.13	NTU
GN-AP-MW-37V	COND	Conductivity	7/26/2023 11:51	414.98	uS/cm
GN-AP-MW-37V	DO	DO	7/26/2023 11:51	0.28	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	7/26/2023 11:51	48.29	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	7/26/2023 11:51	-271.02	mv
GN-AP-MW-37V	PH	pH	7/26/2023 11:51	8.07	SU
GN-AP-MW-37V	TEMP	Temperature	7/26/2023 11:51	24.75	C
GN-AP-MW-37V	TURB	Turbidity	7/26/2023 11:51	3.98	NTU
GN-AP-MW-37V	COND	Conductivity	7/26/2023 11:56	414.5	uS/cm
GN-AP-MW-37V	DO	DO	7/26/2023 11:56	0.28	mg/L
GN-AP-MW-37V	DTW	Depth to Water Detail	7/26/2023 11:56	48.4	ft
GN-AP-MW-37V	ORP	Oxidation Reduction Potention	7/26/2023 11:56	-255.68	mv
GN-AP-MW-37V	PH	pH	7/26/2023 11:56	8.06	SU
GN-AP-MW-37V	SULFIDE	Sulfide	7/26/2023 11:56	1	mg/L
GN-AP-MW-37V	TEMP	Temperature	7/26/2023 11:56	24.8	C
GN-AP-MW-37V	TURB	Turbidity	7/26/2023 11:56	3.9	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-5	COND	Conductivity	8/1/2023 12:20	404.68	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 12:20	3.9	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 12:20	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 12:20	-78.11	mv
GN-AP-MW-5	PH	pH	8/1/2023 12:20	7.16	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 12:20	20.97	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 12:20	14.6	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 12:25	404.47	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 12:25	4.46	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 12:25	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 12:25	-58.51	mv
GN-AP-MW-5	PH	pH	8/1/2023 12:25	7.14	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 12:25	21.03	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 12:25	27.3	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 12:30	403.47	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 12:30	4.51	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 12:30	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 12:30	-61.38	mv
GN-AP-MW-5	PH	pH	8/1/2023 12:30	7.14	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 12:30	20.93	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 12:30	21.1	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 12:35	401.41	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 12:35	4.54	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 12:35	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 12:35	-50.83	mv
GN-AP-MW-5	PH	pH	8/1/2023 12:35	7.16	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 12:35	20.92	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 12:35	18.6	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 12:40	396.38	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 12:40	4.53	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 12:40	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 12:40	-56.53	mv
GN-AP-MW-5	PH	pH	8/1/2023 12:40	7.2	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 12:40	20.89	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 12:40	15.5	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 12:45	391.89	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 12:45	4.55	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 12:45	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 12:45	-44.88	mv
GN-AP-MW-5	PH	pH	8/1/2023 12:45	7.24	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 12:45	20.89	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 12:45	14.2	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 12:50	381.52	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-5	DO	DO	8/1/2023 12:50	4.48	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 12:50	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 12:50	-56.81	mv
GN-AP-MW-5	PH	pH	8/1/2023 12:50	7.28	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 12:50	20.91	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 12:50	11.5	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 12:55	364.68	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 12:55	4.48	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 12:55	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 12:55	-57.24	mv
GN-AP-MW-5	PH	pH	8/1/2023 12:55	7.33	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 12:55	20.86	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 12:55	12.53	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 13:00	406.38	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 13:00	4.44	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 13:00	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 13:00	-61.61	mv
GN-AP-MW-5	PH	pH	8/1/2023 13:00	7.37	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 13:00	20.84	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 13:00	11.84	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 13:05	406.58	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 13:05	4.42	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 13:05	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 13:05	-57.35	mv
GN-AP-MW-5	PH	pH	8/1/2023 13:05	7.41	SU
GN-AP-MW-5	TEMP	Temperature	8/1/2023 13:05	21.11	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 13:05	10.37	NTU
GN-AP-MW-5	COND	Conductivity	8/1/2023 13:10	408.46	uS/cm
GN-AP-MW-5	DO	DO	8/1/2023 13:10	4.36	mg/L
GN-AP-MW-5	DTW	Depth to Water Detail	8/1/2023 13:10	20.52	ft
GN-AP-MW-5	ORP	Oxidation Reduction Potention	8/1/2023 13:10	-73.37	mv
GN-AP-MW-5	PH	pH	8/1/2023 13:10	7.45	SU
GN-AP-MW-5	SULFIDE	Sulfide	8/1/2023 13:10	0	mg/L
GN-AP-MW-5	TEMP	Temperature	8/1/2023 13:10	21.21	C
GN-AP-MW-5	TURB	Turbidity	8/1/2023 13:10	7.99	NTU
GN-AP-MW-6	COND	Conductivity	7/26/2023 10:23	506.72	uS/cm
GN-AP-MW-6	DO	DO	7/26/2023 10:23	3.72	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	7/26/2023 10:23	16.11	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	7/26/2023 10:23	220.98	mv
GN-AP-MW-6	PH	pH	7/26/2023 10:23	7.25	SU
GN-AP-MW-6	TEMP	Temperature	7/26/2023 10:23	19.77	C
GN-AP-MW-6	TURB	Turbidity	7/26/2023 10:23	1.91	NTU
GN-AP-MW-6	COND	Conductivity	7/26/2023 10:28	511.82	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-6	DO	DO	7/26/2023 10:28	3.79	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	7/26/2023 10:28	16.11	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	7/26/2023 10:28	224.26	mv
GN-AP-MW-6	PH	pH	7/26/2023 10:28	7.18	SU
GN-AP-MW-6	TEMP	Temperature	7/26/2023 10:28	19.35	C
GN-AP-MW-6	TURB	Turbidity	7/26/2023 10:28	1.83	NTU
GN-AP-MW-6	COND	Conductivity	7/26/2023 10:33	522.11	uS/cm
GN-AP-MW-6	DO	DO	7/26/2023 10:33	3.29	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	7/26/2023 10:33	16.11	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	7/26/2023 10:33	224.22	mv
GN-AP-MW-6	PH	pH	7/26/2023 10:33	7.18	SU
GN-AP-MW-6	TEMP	Temperature	7/26/2023 10:33	19.38	C
GN-AP-MW-6	TURB	Turbidity	7/26/2023 10:33	1.78	NTU
GN-AP-MW-6	COND	Conductivity	7/26/2023 10:38	534.42	uS/cm
GN-AP-MW-6	DO	DO	7/26/2023 10:38	2.65	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	7/26/2023 10:38	16.11	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	7/26/2023 10:38	224.17	mv
GN-AP-MW-6	PH	pH	7/26/2023 10:38	7.16	SU
GN-AP-MW-6	TEMP	Temperature	7/26/2023 10:38	19.41	C
GN-AP-MW-6	TURB	Turbidity	7/26/2023 10:38	1.54	NTU
GN-AP-MW-6	COND	Conductivity	7/26/2023 10:43	541.88	uS/cm
GN-AP-MW-6	DO	DO	7/26/2023 10:43	2.28	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	7/26/2023 10:43	16.11	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	7/26/2023 10:43	223.74	mv
GN-AP-MW-6	PH	pH	7/26/2023 10:43	7.13	SU
GN-AP-MW-6	TEMP	Temperature	7/26/2023 10:43	19.46	C
GN-AP-MW-6	TURB	Turbidity	7/26/2023 10:43	1.62	NTU
GN-AP-MW-6	COND	Conductivity	7/26/2023 10:48	546.33	uS/cm
GN-AP-MW-6	DO	DO	7/26/2023 10:48	2.1	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	7/26/2023 10:48	16.11	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	7/26/2023 10:48	223.5	mv
GN-AP-MW-6	PH	pH	7/26/2023 10:48	7.09	SU
GN-AP-MW-6	TEMP	Temperature	7/26/2023 10:48	19.45	C
GN-AP-MW-6	TURB	Turbidity	7/26/2023 10:48	1.65	NTU
GN-AP-MW-6	COND	Conductivity	7/26/2023 10:53	548.7	uS/cm
GN-AP-MW-6	DO	DO	7/26/2023 10:53	2.03	mg/L
GN-AP-MW-6	DTW	Depth to Water Detail	7/26/2023 10:53	16.11	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	7/26/2023 10:53	222.84	mv
GN-AP-MW-6	PH	pH	7/26/2023 10:53	7.07	SU
GN-AP-MW-6	TEMP	Temperature	7/26/2023 10:53	19.47	C
GN-AP-MW-6	TURB	Turbidity	7/26/2023 10:53	1.51	NTU
GN-AP-MW-6	COND	Conductivity	7/26/2023 10:58	554.19	uS/cm
GN-AP-MW-6	DO	DO	7/26/2023 10:58	1.98	mg/L

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-6	DTW	Depth to Water Detail	7/26/2023 10:58	16.11	ft
GN-AP-MW-6	ORP	Oxidation Reduction Potention	7/26/2023 10:58	222.31	mv
GN-AP-MW-6	PH	pH	7/26/2023 10:58	7.05	SU
GN-AP-MW-6	SULFIDE	Sulfide	7/26/2023 10:58	0	mg/L
GN-AP-MW-6	TEMP	Temperature	7/26/2023 10:58	19.47	C
GN-AP-MW-6	TURB	Turbidity	7/26/2023 10:58	1.46	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-7	COND	Conductivity	7/26/2023 9:27	515.9	uS/cm
GN-AP-MW-7	DO	DO	7/26/2023 9:27	1.11	mg/L
GN-AP-MW-7	DTW	Depth to Water Detail	7/26/2023 9:27	8.86	ft
GN-AP-MW-7	ORP	Oxidation Reduction Potention	7/26/2023 9:27	227.75	mv
GN-AP-MW-7	PH	pH	7/26/2023 9:27	7.22	SU
GN-AP-MW-7	TEMP	Temperature	7/26/2023 9:27	20.76	C
GN-AP-MW-7	TURB	Turbidity	7/26/2023 9:27	1.71	NTU
GN-AP-MW-7	COND	Conductivity	7/26/2023 9:32	505.84	uS/cm
GN-AP-MW-7	DO	DO	7/26/2023 9:32	1.06	mg/L
GN-AP-MW-7	DTW	Depth to Water Detail	7/26/2023 9:32	8.88	ft
GN-AP-MW-7	ORP	Oxidation Reduction Potention	7/26/2023 9:32	226.31	mv
GN-AP-MW-7	PH	pH	7/26/2023 9:32	7.25	SU
GN-AP-MW-7	TEMP	Temperature	7/26/2023 9:32	20.79	C
GN-AP-MW-7	TURB	Turbidity	7/26/2023 9:32	1.95	NTU
GN-AP-MW-7	COND	Conductivity	7/26/2023 9:37	496.4	uS/cm
GN-AP-MW-7	DO	DO	7/26/2023 9:37	1	mg/L
GN-AP-MW-7	DTW	Depth to Water Detail	7/26/2023 9:37	8.9	ft
GN-AP-MW-7	ORP	Oxidation Reduction Potention	7/26/2023 9:37	220.92	mv
GN-AP-MW-7	PH	pH	7/26/2023 9:37	7.29	SU
GN-AP-MW-7	TEMP	Temperature	7/26/2023 9:37	20.78	C
GN-AP-MW-7	TURB	Turbidity	7/26/2023 9:37	1.95	NTU
GN-AP-MW-7	COND	Conductivity	7/26/2023 9:42	499.63	uS/cm
GN-AP-MW-7	DO	DO	7/26/2023 9:42	1.07	mg/L
GN-AP-MW-7	DTW	Depth to Water Detail	7/26/2023 9:42	8.92	ft
GN-AP-MW-7	ORP	Oxidation Reduction Potention	7/26/2023 9:42	217.38	mv
GN-AP-MW-7	PH	pH	7/26/2023 9:42	7.35	SU
GN-AP-MW-7	SULFIDE	Sulfide	7/26/2023 9:42	0	mg/L
GN-AP-MW-7	TEMP	Temperature	7/26/2023 9:42	20.73	C
GN-AP-MW-7	TURB	Turbidity	7/26/2023 9:42	1.82	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-8	COND	Conductivity	7/19/2023 8:57	468.89	uS/cm
GN-AP-MW-8	DO	DO	7/19/2023 8:57	2.6	mg/L
GN-AP-MW-8	DTW	Depth to Water Detail	7/19/2023 8:57	16.39	ft
GN-AP-MW-8	ORP	Oxidation Reduction Potention	7/19/2023 8:57	-88.96	mv
GN-AP-MW-8	PH	pH	7/19/2023 8:57	7.24	SU
GN-AP-MW-8	TEMP	Temperature	7/19/2023 8:57	23.22	C
GN-AP-MW-8	TURB	Turbidity	7/19/2023 8:57	1.96	NTU
GN-AP-MW-8	COND	Conductivity	7/19/2023 9:08	464.72	uS/cm
GN-AP-MW-8	DO	DO	7/19/2023 9:08	1.92	mg/L
GN-AP-MW-8	DTW	Depth to Water Detail	7/19/2023 9:08	17.74	ft
GN-AP-MW-8	ORP	Oxidation Reduction Potention	7/19/2023 9:08	-98.95	mv
GN-AP-MW-8	PH	pH	7/19/2023 9:08	7.24	SU
GN-AP-MW-8	SULFIDE	Sulfide	7/19/2023 9:08	0	mg/L
GN-AP-MW-8	TEMP	Temperature	7/19/2023 9:08	23.17	C
GN-AP-MW-8	TURB	Turbidity	7/19/2023 9:08	2.09	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-9	COND	Conductivity	7/18/2023 8:37	385.1	uS/cm
GN-AP-MW-9	DO	DO	7/18/2023 8:37	1.44	mg/L
GN-AP-MW-9	DTW	Depth to Water Detail	7/18/2023 8:37	10.21	ft
GN-AP-MW-9	ORP	Oxidation Reduction Potention	7/18/2023 8:37	-131.19	mv
GN-AP-MW-9	PH	pH	7/18/2023 8:37	7.6	SU
GN-AP-MW-9	TEMP	Temperature	7/18/2023 8:37	25.22	C
GN-AP-MW-9	TURB	Turbidity	7/18/2023 8:37	1.65	NTU
GN-AP-MW-9	COND	Conductivity	7/18/2023 8:53	385.12	uS/cm
GN-AP-MW-9	DO	DO	7/18/2023 8:53	1.05	mg/L
GN-AP-MW-9	DTW	Depth to Water Detail	7/18/2023 8:53	11.45	ft
GN-AP-MW-9	ORP	Oxidation Reduction Potention	7/18/2023 8:53	-136.77	mv
GN-AP-MW-9	PH	pH	7/18/2023 8:53	7.63	SU
GN-AP-MW-9	TEMP	Temperature	7/18/2023 8:53	25.64	C
GN-AP-MW-9	TURB	Turbidity	7/18/2023 8:53	1.67	NTU
GN-AP-MW-9	COND	Conductivity	7/18/2023 9:10	383.27	uS/cm
GN-AP-MW-9	DO	DO	7/18/2023 9:10	0.76	mg/L
GN-AP-MW-9	DTW	Depth to Water Detail	7/18/2023 9:10	12.62	ft
GN-AP-MW-9	ORP	Oxidation Reduction Potention	7/18/2023 9:10	-146.27	mv
GN-AP-MW-9	PH	pH	7/18/2023 9:10	7.64	SU
GN-AP-MW-9	SULFIDE	Sulfide	7/18/2023 9:10	0	mg/L
GN-AP-MW-9	TEMP	Temperature	7/18/2023 9:10	25.84	C
GN-AP-MW-9	TURB	Turbidity	7/18/2023 9:10	1.8	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-11	COND	Conductivity	7/31/2023 12:39	391.06	uS/cm
GN-AP-MW-11	DO	DO	7/31/2023 12:39	1.73	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	7/31/2023 12:39	11.34	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	7/31/2023 12:39	96.48	mv
GN-AP-MW-11	PH	pH	7/31/2023 12:39	7.62	SU
GN-AP-MW-11	TEMP	Temperature	7/31/2023 12:39	23.47	C
GN-AP-MW-11	TURB	Turbidity	7/31/2023 12:39	5.31	NTU
GN-AP-MW-11	COND	Conductivity	7/31/2023 12:44	392.3	uS/cm
GN-AP-MW-11	DO	DO	7/31/2023 12:44	1.88	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	7/31/2023 12:44	11.86	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	7/31/2023 12:44	76.01	mv
GN-AP-MW-11	PH	pH	7/31/2023 12:44	7.66	SU
GN-AP-MW-11	TEMP	Temperature	7/31/2023 12:44	23.68	C
GN-AP-MW-11	TURB	Turbidity	7/31/2023 12:44	4.22	NTU
GN-AP-MW-11	COND	Conductivity	7/31/2023 12:49	392.8	uS/cm
GN-AP-MW-11	DO	DO	7/31/2023 12:49	2.02	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	7/31/2023 12:49	12.02	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	7/31/2023 12:49	69.79	mv
GN-AP-MW-11	PH	pH	7/31/2023 12:49	7.7	SU
GN-AP-MW-11	TEMP	Temperature	7/31/2023 12:49	23.47	C
GN-AP-MW-11	TURB	Turbidity	7/31/2023 12:49	4.23	NTU
GN-AP-MW-11	COND	Conductivity	7/31/2023 12:54	393.07	uS/cm
GN-AP-MW-11	DO	DO	7/31/2023 12:54	2.15	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	7/31/2023 12:54	12.26	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	7/31/2023 12:54	75.7	mv
GN-AP-MW-11	PH	pH	7/31/2023 12:54	7.64	SU
GN-AP-MW-11	TEMP	Temperature	7/31/2023 12:54	23.39	C
GN-AP-MW-11	TURB	Turbidity	7/31/2023 12:54	3.16	NTU
GN-AP-MW-11	COND	Conductivity	7/31/2023 12:59	392.25	uS/cm
GN-AP-MW-11	DO	DO	7/31/2023 12:59	2.18	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	7/31/2023 12:59	12.37	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	7/31/2023 12:59	79.15	mv
GN-AP-MW-11	PH	pH	7/31/2023 12:59	7.69	SU
GN-AP-MW-11	TEMP	Temperature	7/31/2023 12:59	23.76	C
GN-AP-MW-11	TURB	Turbidity	7/31/2023 12:59	3.2	NTU
GN-AP-MW-11	COND	Conductivity	7/31/2023 13:04	389.21	uS/cm
GN-AP-MW-11	DO	DO	7/31/2023 13:04	2.21	mg/L
GN-AP-MW-11	DTW	Depth to Water Detail	7/31/2023 13:04	12.51	ft
GN-AP-MW-11	ORP	Oxidation Reduction Potention	7/31/2023 13:04	83.55	mv
GN-AP-MW-11	PH	pH	7/31/2023 13:04	7.73	SU
GN-AP-MW-11	SULFIDE	Sulfide	7/31/2023 13:04	0	mg/L
GN-AP-MW-11	TEMP	Temperature	7/31/2023 13:04	23.63	C
GN-AP-MW-11	TURB	Turbidity	7/31/2023 13:04	4.3	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-12	COND	Conductivity	7/18/2023 13:07	598.42	uS/cm
GN-AP-MW-12	DO	DO	7/18/2023 13:07	0.23	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	7/18/2023 13:07	22.31	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	7/18/2023 13:07	-82.41	mv
GN-AP-MW-12	PH	pH	7/18/2023 13:07	7.11	SU
GN-AP-MW-12	TEMP	Temperature	7/18/2023 13:07	21.94	C
GN-AP-MW-12	TURB	Turbidity	7/18/2023 13:07	7.74	NTU
GN-AP-MW-12	COND	Conductivity	7/18/2023 13:12	596.64	uS/cm
GN-AP-MW-12	DO	DO	7/18/2023 13:12	0.26	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	7/18/2023 13:12	22.86	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	7/18/2023 13:12	-83.81	mv
GN-AP-MW-12	PH	pH	7/18/2023 13:12	7.14	SU
GN-AP-MW-12	TEMP	Temperature	7/18/2023 13:12	22.22	C
GN-AP-MW-12	TURB	Turbidity	7/18/2023 13:12	6.81	NTU
GN-AP-MW-12	COND	Conductivity	7/18/2023 13:17	596.39	uS/cm
GN-AP-MW-12	DO	DO	7/18/2023 13:17	0.27	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	7/18/2023 13:17	23.76	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	7/18/2023 13:17	-85.51	mv
GN-AP-MW-12	PH	pH	7/18/2023 13:17	7.16	SU
GN-AP-MW-12	TEMP	Temperature	7/18/2023 13:17	22.54	C
GN-AP-MW-12	TURB	Turbidity	7/18/2023 13:17	4.75	NTU
GN-AP-MW-12	COND	Conductivity	7/18/2023 13:22	594.93	uS/cm
GN-AP-MW-12	DO	DO	7/18/2023 13:22	0.27	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	7/18/2023 13:22	24.41	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	7/18/2023 13:22	-87.24	mv
GN-AP-MW-12	PH	pH	7/18/2023 13:22	7.2	SU
GN-AP-MW-12	TEMP	Temperature	7/18/2023 13:22	22.31	C
GN-AP-MW-12	TURB	Turbidity	7/18/2023 13:22	3.52	NTU
GN-AP-MW-12	COND	Conductivity	7/18/2023 13:27	597.07	uS/cm
GN-AP-MW-12	DO	DO	7/18/2023 13:27	0.41	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	7/18/2023 13:27	24.41	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	7/18/2023 13:27	-88.31	mv
GN-AP-MW-12	PH	pH	7/18/2023 13:27	7.23	SU
GN-AP-MW-12	TEMP	Temperature	7/18/2023 13:27	22.83	C
GN-AP-MW-12	TURB	Turbidity	7/18/2023 13:27	2.71	NTU
GN-AP-MW-12	COND	Conductivity	7/18/2023 13:32	595.58	uS/cm
GN-AP-MW-12	DO	DO	7/18/2023 13:32	0.42	mg/L
GN-AP-MW-12	DTW	Depth to Water Detail	7/18/2023 13:32	24.41	ft
GN-AP-MW-12	ORP	Oxidation Reduction Potention	7/18/2023 13:32	-88.84	mv
GN-AP-MW-12	PH	pH	7/18/2023 13:32	7.26	SU
GN-AP-MW-12	SULFIDE	Sulfide	7/18/2023 13:32	0	mg/L
GN-AP-MW-12	TEMP	Temperature	7/18/2023 13:32	23	C
GN-AP-MW-12	TURB	Turbidity	7/18/2023 13:32	2.3	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-13	COND	Conductivity	7/19/2023 10:50	393.22	uS/cm
GN-AP-MW-13	DO	DO	7/19/2023 10:50	1.24	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	7/19/2023 10:50	2.63	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	7/19/2023 10:50	-69.38	mv
GN-AP-MW-13	PH	pH	7/19/2023 10:50	7.07	SU
GN-AP-MW-13	TEMP	Temperature	7/19/2023 10:50	27.53	C
GN-AP-MW-13	TURB	Turbidity	7/19/2023 10:50	1.94	NTU
GN-AP-MW-13	COND	Conductivity	7/19/2023 10:55	389.44	uS/cm
GN-AP-MW-13	DO	DO	7/19/2023 10:55	1.13	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	7/19/2023 10:55	3.06	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	7/19/2023 10:55	-80.08	mv
GN-AP-MW-13	PH	pH	7/19/2023 10:55	7.17	SU
GN-AP-MW-13	TEMP	Temperature	7/19/2023 10:55	27.18	C
GN-AP-MW-13	TURB	Turbidity	7/19/2023 10:55	2.44	NTU
GN-AP-MW-13	COND	Conductivity	7/19/2023 11:00	388.28	uS/cm
GN-AP-MW-13	DO	DO	7/19/2023 11:00	1.14	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	7/19/2023 11:00	3.31	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	7/19/2023 11:00	-84.49	mv
GN-AP-MW-13	PH	pH	7/19/2023 11:00	7.23	SU
GN-AP-MW-13	TEMP	Temperature	7/19/2023 11:00	26.52	C
GN-AP-MW-13	TURB	Turbidity	7/19/2023 11:00	3.1	NTU
GN-AP-MW-13	COND	Conductivity	7/19/2023 11:05	388.39	uS/cm
GN-AP-MW-13	DO	DO	7/19/2023 11:05	1.13	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	7/19/2023 11:05	3.56	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	7/19/2023 11:05	-89.06	mv
GN-AP-MW-13	PH	pH	7/19/2023 11:05	7.29	SU
GN-AP-MW-13	TEMP	Temperature	7/19/2023 11:05	26.46	C
GN-AP-MW-13	TURB	Turbidity	7/19/2023 11:05	1.87	NTU
GN-AP-MW-13	COND	Conductivity	7/19/2023 11:10	386.8	uS/cm
GN-AP-MW-13	DO	DO	7/19/2023 11:10	1.17	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	7/19/2023 11:10	3.7	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	7/19/2023 11:10	-91.89	mv
GN-AP-MW-13	PH	pH	7/19/2023 11:10	7.33	SU
GN-AP-MW-13	TEMP	Temperature	7/19/2023 11:10	26.15	C
GN-AP-MW-13	TURB	Turbidity	7/19/2023 11:10	1.9	NTU
GN-AP-MW-13	COND	Conductivity	7/19/2023 11:15	385.58	uS/cm
GN-AP-MW-13	DO	DO	7/19/2023 11:15	1.21	mg/L
GN-AP-MW-13	DTW	Depth to Water Detail	7/19/2023 11:15	3.84	ft
GN-AP-MW-13	ORP	Oxidation Reduction Potention	7/19/2023 11:15	-94.07	mv
GN-AP-MW-13	PH	pH	7/19/2023 11:15	7.36	SU
GN-AP-MW-13	SULFIDE	Sulfide	7/19/2023 11:15	0	mg/L
GN-AP-MW-13	TEMP	Temperature	7/19/2023 11:15	25.83	C
GN-AP-MW-13	TURB	Turbidity	7/19/2023 11:15	1.82	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-14	COND	Conductivity	7/26/2023 12:35	462.48	uS/cm
GN-AP-MW-14	DO	DO	7/26/2023 12:35	0.91	mg/L
GN-AP-MW-14	DTW	Depth to Water Detail	7/26/2023 12:35	29.24	ft
GN-AP-MW-14	ORP	Oxidation Reduction Potention	7/26/2023 12:35	-128.97	mv
GN-AP-MW-14	PH	pH	7/26/2023 12:35	7.35	SU
GN-AP-MW-14	TEMP	Temperature	7/26/2023 12:35	23.22	C
GN-AP-MW-14	TURB	Turbidity	7/26/2023 12:35	1.8	NTU
GN-AP-MW-14	COND	Conductivity	7/26/2023 12:40	453.94	uS/cm
GN-AP-MW-14	DO	DO	7/26/2023 12:40	0.88	mg/L
GN-AP-MW-14	DTW	Depth to Water Detail	7/26/2023 12:40	29.42	ft
GN-AP-MW-14	ORP	Oxidation Reduction Potention	7/26/2023 12:40	-130.42	mv
GN-AP-MW-14	PH	pH	7/26/2023 12:40	7.34	SU
GN-AP-MW-14	TEMP	Temperature	7/26/2023 12:40	23.18	C
GN-AP-MW-14	TURB	Turbidity	7/26/2023 12:40	2.1	NTU
GN-AP-MW-14	COND	Conductivity	7/26/2023 12:45	453.65	uS/cm
GN-AP-MW-14	DO	DO	7/26/2023 12:45	0.81	mg/L
GN-AP-MW-14	DTW	Depth to Water Detail	7/26/2023 12:45	29.55	ft
GN-AP-MW-14	ORP	Oxidation Reduction Potention	7/26/2023 12:45	-135.94	mv
GN-AP-MW-14	PH	pH	7/26/2023 12:45	7.38	SU
GN-AP-MW-14	TEMP	Temperature	7/26/2023 12:45	22.54	C
GN-AP-MW-14	TURB	Turbidity	7/26/2023 12:45	2.09	NTU
GN-AP-MW-14	COND	Conductivity	7/26/2023 12:50	457.86	uS/cm
GN-AP-MW-14	DO	DO	7/26/2023 12:50	0.8	mg/L
GN-AP-MW-14	DTW	Depth to Water Detail	7/26/2023 12:50	29.66	ft
GN-AP-MW-14	ORP	Oxidation Reduction Potention	7/26/2023 12:50	-136.38	mv
GN-AP-MW-14	PH	pH	7/26/2023 12:50	7.36	SU
GN-AP-MW-14	SULFIDE	Sulfide	7/26/2023 12:50	0	mg/L
GN-AP-MW-14	TEMP	Temperature	7/26/2023 12:50	22.31	C
GN-AP-MW-14	TURB	Turbidity	7/26/2023 12:50	2.14	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-15R	COND	Conductivity	8/1/2023 10:09	939.16	uS/cm
GN-AP-MW-15R	DO	DO	8/1/2023 10:09	0.47	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	8/1/2023 10:09	45.34	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	8/1/2023 10:09	10.7	mv
GN-AP-MW-15R	PH	pH	8/1/2023 10:09	7.43	SU
GN-AP-MW-15R	TEMP	Temperature	8/1/2023 10:09	21.54	C
GN-AP-MW-15R	TURB	Turbidity	8/1/2023 10:09	0.44	NTU
GN-AP-MW-15R	COND	Conductivity	8/1/2023 10:14	935.52	uS/cm
GN-AP-MW-15R	DO	DO	8/1/2023 10:14	0.32	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	8/1/2023 10:14	45.56	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	8/1/2023 10:14	-17.18	mv
GN-AP-MW-15R	PH	pH	8/1/2023 10:14	7.45	SU
GN-AP-MW-15R	TEMP	Temperature	8/1/2023 10:14	21.38	C
GN-AP-MW-15R	TURB	Turbidity	8/1/2023 10:14	2.23	NTU
GN-AP-MW-15R	COND	Conductivity	8/1/2023 10:19	933.78	uS/cm
GN-AP-MW-15R	DO	DO	8/1/2023 10:19	0.42	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	8/1/2023 10:19	45.75	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	8/1/2023 10:19	-25.6	mv
GN-AP-MW-15R	PH	pH	8/1/2023 10:19	7.45	SU
GN-AP-MW-15R	TEMP	Temperature	8/1/2023 10:19	21.43	C
GN-AP-MW-15R	TURB	Turbidity	8/1/2023 10:19	0.35	NTU
GN-AP-MW-15R	COND	Conductivity	8/1/2023 10:24	930.75	uS/cm
GN-AP-MW-15R	DO	DO	8/1/2023 10:24	0.5	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	8/1/2023 10:24	45.88	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	8/1/2023 10:24	-26.78	mv
GN-AP-MW-15R	PH	pH	8/1/2023 10:24	7.45	SU
GN-AP-MW-15R	TEMP	Temperature	8/1/2023 10:24	21.38	C
GN-AP-MW-15R	TURB	Turbidity	8/1/2023 10:24	0.95	NTU
GN-AP-MW-15R	COND	Conductivity	8/1/2023 10:29	931.65	uS/cm
GN-AP-MW-15R	DO	DO	8/1/2023 10:29	0.58	mg/L
GN-AP-MW-15R	DTW	Depth to Water Detail	8/1/2023 10:29	46.02	ft
GN-AP-MW-15R	ORP	Oxidation Reduction Potention	8/1/2023 10:29	-29	mv
GN-AP-MW-15R	PH	pH	8/1/2023 10:29	7.48	SU
GN-AP-MW-15R	SULFIDE	Sulfide	8/1/2023 10:29	0	mg/L
GN-AP-MW-15R	TEMP	Temperature	8/1/2023 10:29	21.24	C
GN-AP-MW-15R	TURB	Turbidity	8/1/2023 10:29	0.24	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-10	COND	Conductivity	7/18/2023 10:40	320.05	uS/cm
GN-AP-MW-10	DO	DO	7/18/2023 10:40	1.28	mg/L
GN-AP-MW-10	DTW	Depth to Water Detail	7/18/2023 10:40	7.26	ft
GN-AP-MW-10	ORP	Oxidation Reduction Potention	7/18/2023 10:40	-3.91	mv
GN-AP-MW-10	PH	pH	7/18/2023 10:40	6.97	SU
GN-AP-MW-10	TEMP	Temperature	7/18/2023 10:40	23.52	C
GN-AP-MW-10	TURB	Turbidity	7/18/2023 10:40	2.25	NTU
GN-AP-MW-10	COND	Conductivity	7/18/2023 10:45	318.98	uS/cm
GN-AP-MW-10	DO	DO	7/18/2023 10:45	1.33	mg/L
GN-AP-MW-10	DTW	Depth to Water Detail	7/18/2023 10:45	7.32	ft
GN-AP-MW-10	ORP	Oxidation Reduction Potention	7/18/2023 10:45	-10.06	mv
GN-AP-MW-10	PH	pH	7/18/2023 10:45	6.98	SU
GN-AP-MW-10	TEMP	Temperature	7/18/2023 10:45	23.34	C
GN-AP-MW-10	TURB	Turbidity	7/18/2023 10:45	1.62	NTU
GN-AP-MW-10	COND	Conductivity	7/18/2023 10:50	320.04	uS/cm
GN-AP-MW-10	DO	DO	7/18/2023 10:50	1.52	mg/L
GN-AP-MW-10	DTW	Depth to Water Detail	7/18/2023 10:50	7.35	ft
GN-AP-MW-10	ORP	Oxidation Reduction Potention	7/18/2023 10:50	-6.76	mv
GN-AP-MW-10	PH	pH	7/18/2023 10:50	7.02	SU
GN-AP-MW-10	TEMP	Temperature	7/18/2023 10:50	23.09	C
GN-AP-MW-10	TURB	Turbidity	7/18/2023 10:50	1.84	NTU
GN-AP-MW-10	COND	Conductivity	7/18/2023 10:55	321.04	uS/cm
GN-AP-MW-10	DO	DO	7/18/2023 10:55	1.52	mg/L
GN-AP-MW-10	DTW	Depth to Water Detail	7/18/2023 10:55	7.4	ft
GN-AP-MW-10	ORP	Oxidation Reduction Potention	7/18/2023 10:55	0.46	mv
GN-AP-MW-10	PH	pH	7/18/2023 10:55	7.05	SU
GN-AP-MW-10	SULFIDE	Sulfide	7/18/2023 10:55	0	mg/L
GN-AP-MW-10	TEMP	Temperature	7/18/2023 10:55	23.14	C
GN-AP-MW-10	TURB	Turbidity	7/18/2023 10:55	1.96	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-22	COND	Conductivity	8/1/2023 11:26	505.98	uS/cm
GN-AP-MW-22	DO	DO	8/1/2023 11:26	0.18	mg/L
GN-AP-MW-22	DTW	Depth to Water Detail	8/1/2023 11:26	16.12	ft
GN-AP-MW-22	ORP	Oxidation Reduction Potention	8/1/2023 11:26	167.82	mv
GN-AP-MW-22	PH	pH	8/1/2023 11:26	6.86	SU
GN-AP-MW-22	TEMP	Temperature	8/1/2023 11:26	20.03	C
GN-AP-MW-22	TURB	Turbidity	8/1/2023 11:26	0.48	NTU
GN-AP-MW-22	COND	Conductivity	8/1/2023 11:31	506.34	uS/cm
GN-AP-MW-22	DO	DO	8/1/2023 11:31	0.16	mg/L
GN-AP-MW-22	DTW	Depth to Water Detail	8/1/2023 11:31	16.12	ft
GN-AP-MW-22	ORP	Oxidation Reduction Potention	8/1/2023 11:31	168.64	mv
GN-AP-MW-22	PH	pH	8/1/2023 11:31	6.86	SU
GN-AP-MW-22	TEMP	Temperature	8/1/2023 11:31	19.96	C
GN-AP-MW-22	TURB	Turbidity	8/1/2023 11:31	0.19	NTU
GN-AP-MW-22	COND	Conductivity	8/1/2023 11:36	505.43	uS/cm
GN-AP-MW-22	DO	DO	8/1/2023 11:36	0.15	mg/L
GN-AP-MW-22	DTW	Depth to Water Detail	8/1/2023 11:36	16.12	ft
GN-AP-MW-22	ORP	Oxidation Reduction Potention	8/1/2023 11:36	168.61	mv
GN-AP-MW-22	PH	pH	8/1/2023 11:36	6.87	SU
GN-AP-MW-22	TEMP	Temperature	8/1/2023 11:36	20.16	C
GN-AP-MW-22	TURB	Turbidity	8/1/2023 11:36	0.32	NTU
GN-AP-MW-22	COND	Conductivity	8/1/2023 11:41	506.33	uS/cm
GN-AP-MW-22	DO	DO	8/1/2023 11:41	0.14	mg/L
GN-AP-MW-22	DTW	Depth to Water Detail	8/1/2023 11:41	16.12	ft
GN-AP-MW-22	ORP	Oxidation Reduction Potention	8/1/2023 11:41	169.19	mv
GN-AP-MW-22	PH	pH	8/1/2023 11:41	6.88	SU
GN-AP-MW-22	SULFIDE	Sulfide	8/1/2023 11:41	0	mg/L
GN-AP-MW-22	TEMP	Temperature	8/1/2023 11:41	20.16	C
GN-AP-MW-22	TURB	Turbidity	8/1/2023 11:41	0.17	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-23D	COND	Conductivity	7/25/2023 13:57	583.68	uS/cm
GN-AP-MW-23D	DO	DO	7/25/2023 13:57	0.12	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	7/25/2023 13:57	18.62	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	7/25/2023 13:57	-231.38	mv
GN-AP-MW-23D	PH	pH	7/25/2023 13:57	7.53	SU
GN-AP-MW-23D	TEMP	Temperature	7/25/2023 13:57	21.93	C
GN-AP-MW-23D	TURB	Turbidity	7/25/2023 13:57	2.19	NTU
GN-AP-MW-23D	COND	Conductivity	7/25/2023 14:02	583.31	uS/cm
GN-AP-MW-23D	DO	DO	7/25/2023 14:02	0.12	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	7/25/2023 14:02	18.82	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	7/25/2023 14:02	-235	mv
GN-AP-MW-23D	PH	pH	7/25/2023 14:02	7.56	SU
GN-AP-MW-23D	TEMP	Temperature	7/25/2023 14:02	21.95	C
GN-AP-MW-23D	TURB	Turbidity	7/25/2023 14:02	2.37	NTU
GN-AP-MW-23D	COND	Conductivity	7/25/2023 14:07	579.79	uS/cm
GN-AP-MW-23D	DO	DO	7/25/2023 14:07	0.12	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	7/25/2023 14:07	19.26	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	7/25/2023 14:07	-237.51	mv
GN-AP-MW-23D	PH	pH	7/25/2023 14:07	7.62	SU
GN-AP-MW-23D	TEMP	Temperature	7/25/2023 14:07	21.9	C
GN-AP-MW-23D	TURB	Turbidity	7/25/2023 14:07	2.14	NTU
GN-AP-MW-23D	COND	Conductivity	7/25/2023 14:12	581	uS/cm
GN-AP-MW-23D	DO	DO	7/25/2023 14:12	0.14	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	7/25/2023 14:12	19.26	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	7/25/2023 14:12	-237.79	mv
GN-AP-MW-23D	PH	pH	7/25/2023 14:12	7.69	SU
GN-AP-MW-23D	TEMP	Temperature	7/25/2023 14:12	22	C
GN-AP-MW-23D	TURB	Turbidity	7/25/2023 14:12	2.12	NTU
GN-AP-MW-23D	COND	Conductivity	7/25/2023 14:17	579.84	uS/cm
GN-AP-MW-23D	DO	DO	7/25/2023 14:17	0.14	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	7/25/2023 14:17	19.26	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	7/25/2023 14:17	-239.53	mv
GN-AP-MW-23D	PH	pH	7/25/2023 14:17	7.76	SU
GN-AP-MW-23D	TEMP	Temperature	7/25/2023 14:17	22.1	C
GN-AP-MW-23D	TURB	Turbidity	7/25/2023 14:17	1.86	NTU
GN-AP-MW-23D	COND	Conductivity	7/25/2023 14:22	578.86	uS/cm
GN-AP-MW-23D	DO	DO	7/25/2023 14:22	0.13	mg/L
GN-AP-MW-23D	DTW	Depth to Water Detail	7/25/2023 14:22	19.26	ft
GN-AP-MW-23D	ORP	Oxidation Reduction Potention	7/25/2023 14:22	-239.72	mv
GN-AP-MW-23D	PH	pH	7/25/2023 14:22	7.81	SU
GN-AP-MW-23D	SULFIDE	Sulfide	7/25/2023 14:22	2	mg/L
GN-AP-MW-23D	TEMP	Temperature	7/25/2023 14:22	22.28	C
GN-AP-MW-23D	TURB	Turbidity	7/25/2023 14:22	2.09	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-23S	COND	Conductivity	7/25/2023 12:34	345.21	uS/cm
GN-AP-MW-23S	DO	DO	7/25/2023 12:34	1.99	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	7/25/2023 12:34	17.22	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	7/25/2023 12:34	213.76	mv
GN-AP-MW-23S	PH	pH	7/25/2023 12:34	6.56	SU
GN-AP-MW-23S	TEMP	Temperature	7/25/2023 12:34	21.94	C
GN-AP-MW-23S	TURB	Turbidity	7/25/2023 12:34	2.23	NTU
GN-AP-MW-23S	COND	Conductivity	7/25/2023 12:39	357.47	uS/cm
GN-AP-MW-23S	DO	DO	7/25/2023 12:39	2	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	7/25/2023 12:39	17.37	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	7/25/2023 12:39	213.54	mv
GN-AP-MW-23S	PH	pH	7/25/2023 12:39	6.6	SU
GN-AP-MW-23S	TEMP	Temperature	7/25/2023 12:39	22.34	C
GN-AP-MW-23S	TURB	Turbidity	7/25/2023 12:39	2.07	NTU
GN-AP-MW-23S	COND	Conductivity	7/25/2023 12:44	372.97	uS/cm
GN-AP-MW-23S	DO	DO	7/25/2023 12:44	1.93	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	7/25/2023 12:44	17.37	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	7/25/2023 12:44	211.94	mv
GN-AP-MW-23S	PH	pH	7/25/2023 12:44	6.7	SU
GN-AP-MW-23S	TEMP	Temperature	7/25/2023 12:44	22.25	C
GN-AP-MW-23S	TURB	Turbidity	7/25/2023 12:44	2.44	NTU
GN-AP-MW-23S	COND	Conductivity	7/25/2023 12:49	380.27	uS/cm
GN-AP-MW-23S	DO	DO	7/25/2023 12:49	1.78	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	7/25/2023 12:49	17.87	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	7/25/2023 12:49	208.87	mv
GN-AP-MW-23S	PH	pH	7/25/2023 12:49	6.81	SU
GN-AP-MW-23S	TEMP	Temperature	7/25/2023 12:49	20.73	C
GN-AP-MW-23S	TURB	Turbidity	7/25/2023 12:49	2.08	NTU
GN-AP-MW-23S	COND	Conductivity	7/25/2023 12:52	398.36	uS/cm
GN-AP-MW-23S	DO	DO	7/25/2023 12:52	1.77	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	7/25/2023 12:52	17.97	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	7/25/2023 12:52	208.86	mv
GN-AP-MW-23S	PH	pH	7/25/2023 12:52	6.74	SU
GN-AP-MW-23S	TEMP	Temperature	7/25/2023 12:52	20.67	C
GN-AP-MW-23S	TURB	Turbidity	7/25/2023 12:52	1.87	NTU
GN-AP-MW-23S	COND	Conductivity	7/25/2023 12:57	396.03	uS/cm
GN-AP-MW-23S	DO	DO	7/25/2023 12:57	1.95	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	7/25/2023 12:57	18.03	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	7/25/2023 12:57	208.52	mv
GN-AP-MW-23S	PH	pH	7/25/2023 12:57	6.73	SU
GN-AP-MW-23S	TEMP	Temperature	7/25/2023 12:57	20.48	C
GN-AP-MW-23S	TURB	Turbidity	7/25/2023 12:57	1.74	NTU
GN-AP-MW-23S	COND	Conductivity	7/25/2023 13:02	402.61	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-23S	DO	DO	7/25/2023 13:02	1.81	mg/L
GN-AP-MW-23S	DTW	Depth to Water Detail	7/25/2023 13:02	18.09	ft
GN-AP-MW-23S	ORP	Oxidation Reduction Potention	7/25/2023 13:02	206.39	mv
GN-AP-MW-23S	PH	pH	7/25/2023 13:02	6.76	SU
GN-AP-MW-23S	SULFIDE	Sulfide	7/25/2023 13:02	0	mg/L
GN-AP-MW-23S	TEMP	Temperature	7/25/2023 13:02	20.41	C
GN-AP-MW-23S	TURB	Turbidity	7/25/2023 13:02	1.78	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-26	COND	Conductivity	7/25/2023 9:46	534.91	uS/cm
GN-AP-MW-26	DO	DO	7/25/2023 9:46	3.7	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	7/25/2023 9:46	17.45	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	7/25/2023 9:46	216.37	mv
GN-AP-MW-26	PH	pH	7/25/2023 9:46	7.52	SU
GN-AP-MW-26	TEMP	Temperature	7/25/2023 9:46	18.12	C
GN-AP-MW-26	TURB	Turbidity	7/25/2023 9:46	3.19	NTU
GN-AP-MW-26	COND	Conductivity	7/25/2023 9:51	533.79	uS/cm
GN-AP-MW-26	DO	DO	7/25/2023 9:51	3.6	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	7/25/2023 9:51	17.45	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	7/25/2023 9:51	215.6	mv
GN-AP-MW-26	PH	pH	7/25/2023 9:51	7.54	SU
GN-AP-MW-26	TEMP	Temperature	7/25/2023 9:51	18.1	C
GN-AP-MW-26	TURB	Turbidity	7/25/2023 9:51	2.75	NTU
GN-AP-MW-26	COND	Conductivity	7/25/2023 9:56	536.4	uS/cm
GN-AP-MW-26	DO	DO	7/25/2023 9:56	3.48	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	7/25/2023 9:56	17.45	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	7/25/2023 9:56	215.14	mv
GN-AP-MW-26	PH	pH	7/25/2023 9:56	7.54	SU
GN-AP-MW-26	TEMP	Temperature	7/25/2023 9:56	18.16	C
GN-AP-MW-26	TURB	Turbidity	7/25/2023 9:56	2.12	NTU
GN-AP-MW-26	COND	Conductivity	7/25/2023 10:01	538.09	uS/cm
GN-AP-MW-26	DO	DO	7/25/2023 10:01	3.38	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	7/25/2023 10:01	17.45	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	7/25/2023 10:01	214.59	mv
GN-AP-MW-26	PH	pH	7/25/2023 10:01	7.55	SU
GN-AP-MW-26	TEMP	Temperature	7/25/2023 10:01	18.18	C
GN-AP-MW-26	TURB	Turbidity	7/25/2023 10:01	1.97	NTU
GN-AP-MW-26	COND	Conductivity	7/25/2023 10:06	538.04	uS/cm
GN-AP-MW-26	DO	DO	7/25/2023 10:06	3.26	mg/L
GN-AP-MW-26	DTW	Depth to Water Detail	7/25/2023 10:06	17.45	ft
GN-AP-MW-26	ORP	Oxidation Reduction Potention	7/25/2023 10:06	214.22	mv
GN-AP-MW-26	PH	pH	7/25/2023 10:06	7.55	SU
GN-AP-MW-26	SULFIDE	Sulfide	7/25/2023 10:06	0	mg/L
GN-AP-MW-26	TEMP	Temperature	7/25/2023 10:06	18.13	C
GN-AP-MW-26	TURB	Turbidity	7/25/2023 10:06	2.06	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-27	COND	Conductivity	7/25/2023 11:04	241.81	uS/cm
GN-AP-MW-27	DO	DO	7/25/2023 11:04	3.17	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	7/25/2023 11:04	15.23	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	7/25/2023 11:04	221.18	mv
GN-AP-MW-27	PH	pH	7/25/2023 11:04	6.92	SU
GN-AP-MW-27	TEMP	Temperature	7/25/2023 11:04	20.31	C
GN-AP-MW-27	TURB	Turbidity	7/25/2023 11:04	3.83	NTU
GN-AP-MW-27	COND	Conductivity	7/25/2023 11:09	247.96	uS/cm
GN-AP-MW-27	DO	DO	7/25/2023 11:09	3.85	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	7/25/2023 11:09	15.59	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	7/25/2023 11:09	211.34	mv
GN-AP-MW-27	PH	pH	7/25/2023 11:09	7	SU
GN-AP-MW-27	TEMP	Temperature	7/25/2023 11:09	20.46	C
GN-AP-MW-27	TURB	Turbidity	7/25/2023 11:09	3.71	NTU
GN-AP-MW-27	COND	Conductivity	7/25/2023 11:14	251.03	uS/cm
GN-AP-MW-27	DO	DO	7/25/2023 11:14	4.43	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	7/25/2023 11:14	15.76	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	7/25/2023 11:14	205.67	mv
GN-AP-MW-27	PH	pH	7/25/2023 11:14	7.03	SU
GN-AP-MW-27	TEMP	Temperature	7/25/2023 11:14	20.46	C
GN-AP-MW-27	TURB	Turbidity	7/25/2023 11:14	2.92	NTU
GN-AP-MW-27	COND	Conductivity	7/25/2023 11:19	257.62	uS/cm
GN-AP-MW-27	DO	DO	7/25/2023 11:19	4.68	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	7/25/2023 11:19	15.76	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	7/25/2023 11:19	201.76	mv
GN-AP-MW-27	PH	pH	7/25/2023 11:19	7.04	SU
GN-AP-MW-27	TEMP	Temperature	7/25/2023 11:19	20.47	C
GN-AP-MW-27	TURB	Turbidity	7/25/2023 11:19	2.9	NTU
GN-AP-MW-27	COND	Conductivity	7/25/2023 11:24	262.45	uS/cm
GN-AP-MW-27	DO	DO	7/25/2023 11:24	4.85	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	7/25/2023 11:24	15.76	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	7/25/2023 11:24	198.4	mv
GN-AP-MW-27	PH	pH	7/25/2023 11:24	7.06	SU
GN-AP-MW-27	TEMP	Temperature	7/25/2023 11:24	20.46	C
GN-AP-MW-27	TURB	Turbidity	7/25/2023 11:24	2.88	NTU
GN-AP-MW-27	COND	Conductivity	7/25/2023 11:29	268.14	uS/cm
GN-AP-MW-27	DO	DO	7/25/2023 11:29	4.93	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	7/25/2023 11:29	15.76	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	7/25/2023 11:29	199.83	mv
GN-AP-MW-27	PH	pH	7/25/2023 11:29	7.01	SU
GN-AP-MW-27	TEMP	Temperature	7/25/2023 11:29	20.5	C
GN-AP-MW-27	TURB	Turbidity	7/25/2023 11:29	2.8	NTU
GN-AP-MW-27	COND	Conductivity	7/25/2023 11:34	270.99	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-27	DO	DO	7/25/2023 11:34	4.97	mg/L
GN-AP-MW-27	DTW	Depth to Water Detail	7/25/2023 11:34	15.76	ft
GN-AP-MW-27	ORP	Oxidation Reduction Potention	7/25/2023 11:34	194.6	mv
GN-AP-MW-27	PH	pH	7/25/2023 11:34	7.06	SU
GN-AP-MW-27	SULFIDE	Sulfide	7/25/2023 11:34	0	mg/L
GN-AP-MW-27	TEMP	Temperature	7/25/2023 11:34	20.55	C
GN-AP-MW-27	TURB	Turbidity	7/25/2023 11:34	2.23	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-33V	COND	Conductivity	7/24/2023 13:00	553.98	uS/cm
GN-AP-MW-33V	DO	DO	7/24/2023 13:00	0.79	mg/L
GN-AP-MW-33V	DTW	Depth to Water Detail	7/24/2023 13:00	47.35	ft
GN-AP-MW-33V	ORP	Oxidation Reduction Potention	7/24/2023 13:00	-208.51	mv
GN-AP-MW-33V	PH	pH	7/24/2023 13:00	7.51	SU
GN-AP-MW-33V	TEMP	Temperature	7/24/2023 13:00	25.25	C
GN-AP-MW-33V	TURB	Turbidity	7/24/2023 13:00	4.75	NTU
GN-AP-MW-33V	COND	Conductivity	7/24/2023 13:14	571.94	uS/cm
GN-AP-MW-33V	DO	DO	7/24/2023 13:14	0.66	mg/L
GN-AP-MW-33V	DTW	Depth to Water Detail	7/24/2023 13:14	48.87	ft
GN-AP-MW-33V	ORP	Oxidation Reduction Potention	7/24/2023 13:14	-194.6	mv
GN-AP-MW-33V	PH	pH	7/24/2023 13:14	7.56	SU
GN-AP-MW-33V	SULFIDE	Sulfide	7/24/2023 13:14	7	mg/L
GN-AP-MW-33V	TEMP	Temperature	7/24/2023 13:14	25.31	C
GN-AP-MW-33V	TURB	Turbidity	7/24/2023 13:14	7.75	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-36V	COND	Conductivity	7/24/2023 14:56	969.54	uS/cm
GN-AP-MW-36V	DO	DO	7/24/2023 14:56	0.24	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	7/24/2023 14:56	44.8	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	7/24/2023 14:56	-145.65	mv
GN-AP-MW-36V	PH	pH	7/24/2023 14:56	7.29	SU
GN-AP-MW-36V	TEMP	Temperature	7/24/2023 14:56	24.72	C
GN-AP-MW-36V	TURB	Turbidity	7/24/2023 14:56	3.21	NTU
GN-AP-MW-36V	COND	Conductivity	7/24/2023 15:01	970.43	uS/cm
GN-AP-MW-36V	DO	DO	7/24/2023 15:01	0.18	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	7/24/2023 15:01	45.1	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	7/24/2023 15:01	-165.73	mv
GN-AP-MW-36V	PH	pH	7/24/2023 15:01	7.51	SU
GN-AP-MW-36V	TEMP	Temperature	7/24/2023 15:01	24.38	C
GN-AP-MW-36V	TURB	Turbidity	7/24/2023 15:01	2.91	NTU
GN-AP-MW-36V	COND	Conductivity	7/24/2023 15:06	964.01	uS/cm
GN-AP-MW-36V	DO	DO	7/24/2023 15:06	0.17	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	7/24/2023 15:06	45.3	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	7/24/2023 15:06	-178.69	mv
GN-AP-MW-36V	PH	pH	7/24/2023 15:06	7.73	SU
GN-AP-MW-36V	TEMP	Temperature	7/24/2023 15:06	24.21	C
GN-AP-MW-36V	TURB	Turbidity	7/24/2023 15:06	2.75	NTU
GN-AP-MW-36V	COND	Conductivity	7/24/2023 15:11	957.13	uS/cm
GN-AP-MW-36V	DO	DO	7/24/2023 15:11	0.2	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	7/24/2023 15:11	45.49	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	7/24/2023 15:11	-182.47	mv
GN-AP-MW-36V	PH	pH	7/24/2023 15:11	7.85	SU
GN-AP-MW-36V	TEMP	Temperature	7/24/2023 15:11	24.25	C
GN-AP-MW-36V	TURB	Turbidity	7/24/2023 15:11	3.41	NTU
GN-AP-MW-36V	COND	Conductivity	7/24/2023 15:16	955.08	uS/cm
GN-AP-MW-36V	DO	DO	7/24/2023 15:16	0.24	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	7/24/2023 15:16	45.65	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	7/24/2023 15:16	-182.86	mv
GN-AP-MW-36V	PH	pH	7/24/2023 15:16	7.9	SU
GN-AP-MW-36V	TEMP	Temperature	7/24/2023 15:16	24.16	C
GN-AP-MW-36V	TURB	Turbidity	7/24/2023 15:16	3.43	NTU
GN-AP-MW-36V	COND	Conductivity	7/24/2023 15:21	947.26	uS/cm
GN-AP-MW-36V	DO	DO	7/24/2023 15:21	0.28	mg/L
GN-AP-MW-36V	DTW	Depth to Water Detail	7/24/2023 15:21	45.77	ft
GN-AP-MW-36V	ORP	Oxidation Reduction Potention	7/24/2023 15:21	-182.47	mv
GN-AP-MW-36V	PH	pH	7/24/2023 15:21	7.93	SU
GN-AP-MW-36V	SULFIDE	Sulfide	7/24/2023 15:21	2	mg/L
GN-AP-MW-36V	TEMP	Temperature	7/24/2023 15:21	23.97	C
GN-AP-MW-36V	TURB	Turbidity	7/24/2023 15:21	3.24	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-30H	COND	Conductivity	7/19/2023 14:03	934.82	uS/cm
GN-AP-MW-30H	DO	DO	7/19/2023 14:03	1.18	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	7/19/2023 14:03	43.65	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	7/19/2023 14:03	-88.77	mv
GN-AP-MW-30H	PH	pH	7/19/2023 14:03	6.81	SU
GN-AP-MW-30H	TEMP	Temperature	7/19/2023 14:03	22.77	C
GN-AP-MW-30H	TURB	Turbidity	7/19/2023 14:03	5.14	NTU
GN-AP-MW-30H	COND	Conductivity	7/19/2023 14:08	870.51	uS/cm
GN-AP-MW-30H	DO	DO	7/19/2023 14:08	1.09	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	7/19/2023 14:08	43.82	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	7/19/2023 14:08	-84.32	mv
GN-AP-MW-30H	PH	pH	7/19/2023 14:08	6.78	SU
GN-AP-MW-30H	TEMP	Temperature	7/19/2023 14:08	22.59	C
GN-AP-MW-30H	TURB	Turbidity	7/19/2023 14:08	4.22	NTU
GN-AP-MW-30H	COND	Conductivity	7/19/2023 14:13	829.01	uS/cm
GN-AP-MW-30H	DO	DO	7/19/2023 14:13	1.31	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	7/19/2023 14:13	43.86	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	7/19/2023 14:13	-77.75	mv
GN-AP-MW-30H	PH	pH	7/19/2023 14:13	6.77	SU
GN-AP-MW-30H	TEMP	Temperature	7/19/2023 14:13	22.66	C
GN-AP-MW-30H	TURB	Turbidity	7/19/2023 14:13	4.03	NTU
GN-AP-MW-30H	COND	Conductivity	7/19/2023 14:18	802.97	uS/cm
GN-AP-MW-30H	DO	DO	7/19/2023 14:18	1.35	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	7/19/2023 14:18	43.86	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	7/19/2023 14:18	-72.89	mv
GN-AP-MW-30H	PH	pH	7/19/2023 14:18	6.76	SU
GN-AP-MW-30H	TEMP	Temperature	7/19/2023 14:18	22.72	C
GN-AP-MW-30H	TURB	Turbidity	7/19/2023 14:18	2.72	NTU
GN-AP-MW-30H	COND	Conductivity	7/19/2023 14:23	779.82	uS/cm
GN-AP-MW-30H	DO	DO	7/19/2023 14:23	1.18	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	7/19/2023 14:23	43.86	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	7/19/2023 14:23	-68.81	mv
GN-AP-MW-30H	PH	pH	7/19/2023 14:23	6.76	SU
GN-AP-MW-30H	TEMP	Temperature	7/19/2023 14:23	23.04	C
GN-AP-MW-30H	TURB	Turbidity	7/19/2023 14:23	2.37	NTU
GN-AP-MW-30H	COND	Conductivity	7/19/2023 14:28	769.8	uS/cm
GN-AP-MW-30H	DO	DO	7/19/2023 14:28	0.69	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	7/19/2023 14:28	43.86	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	7/19/2023 14:28	-70.39	mv
GN-AP-MW-30H	PH	pH	7/19/2023 14:28	6.78	SU
GN-AP-MW-30H	TEMP	Temperature	7/19/2023 14:28	22.92	C
GN-AP-MW-30H	TURB	Turbidity	7/19/2023 14:28	1.79	NTU
GN-AP-MW-30H	COND	Conductivity	7/19/2023 14:33	762.73	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-30H	DO	DO	7/19/2023 14:33	0.63	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	7/19/2023 14:33	43.86	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	7/19/2023 14:33	-70.63	mv
GN-AP-MW-30H	PH	pH	7/19/2023 14:33	6.79	SU
GN-AP-MW-30H	TEMP	Temperature	7/19/2023 14:33	22.87	C
GN-AP-MW-30H	TURB	Turbidity	7/19/2023 14:33	2.32	NTU
GN-AP-MW-30H	COND	Conductivity	7/19/2023 14:38	755.52	uS/cm
GN-AP-MW-30H	DO	DO	7/19/2023 14:38	0.61	mg/L
GN-AP-MW-30H	DTW	Depth to Water Detail	7/19/2023 14:38	43.86	ft
GN-AP-MW-30H	ORP	Oxidation Reduction Potention	7/19/2023 14:38	-69.86	mv
GN-AP-MW-30H	PH	pH	7/19/2023 14:38	6.81	SU
GN-AP-MW-30H	SULFIDE	Sulfide	7/19/2023 14:38	0	mg/L
GN-AP-MW-30H	TEMP	Temperature	7/19/2023 14:38	22.87	C
GN-AP-MW-30H	TURB	Turbidity	7/19/2023 14:38	1.82	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-31VR	COND	Conductivity	7/19/2023 12:36	500.28	uS/cm
GN-AP-MW-31VR	DO	DO	7/19/2023 12:36	2.6	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	7/19/2023 12:36	43.56	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	7/19/2023 12:36	-163.15	mv
GN-AP-MW-31VR	PH	pH	7/19/2023 12:36	7.36	SU
GN-AP-MW-31VR	TEMP	Temperature	7/19/2023 12:36	27.1	C
GN-AP-MW-31VR	TURB	Turbidity	7/19/2023 12:36	2.02	NTU
GN-AP-MW-31VR	COND	Conductivity	7/19/2023 12:41	502.37	uS/cm
GN-AP-MW-31VR	DO	DO	7/19/2023 12:41	1.71	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	7/19/2023 12:41	43.68	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	7/19/2023 12:41	-174.48	mv
GN-AP-MW-31VR	PH	pH	7/19/2023 12:41	7.44	SU
GN-AP-MW-31VR	TEMP	Temperature	7/19/2023 12:41	26.91	C
GN-AP-MW-31VR	TURB	Turbidity	7/19/2023 12:41	1.82	NTU
GN-AP-MW-31VR	COND	Conductivity	7/19/2023 12:46	503	uS/cm
GN-AP-MW-31VR	DO	DO	7/19/2023 12:46	1.61	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	7/19/2023 12:46	43.8	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	7/19/2023 12:46	-180.91	mv
GN-AP-MW-31VR	PH	pH	7/19/2023 12:46	7.5	SU
GN-AP-MW-31VR	TEMP	Temperature	7/19/2023 12:46	26.43	C
GN-AP-MW-31VR	TURB	Turbidity	7/19/2023 12:46	1.81	NTU
GN-AP-MW-31VR	COND	Conductivity	7/19/2023 12:51	504.01	uS/cm
GN-AP-MW-31VR	DO	DO	7/19/2023 12:51	1.56	mg/L
GN-AP-MW-31VR	DTW	Depth to Water Detail	7/19/2023 12:51	43.88	ft
GN-AP-MW-31VR	ORP	Oxidation Reduction Potention	7/19/2023 12:51	-185.47	mv
GN-AP-MW-31VR	PH	pH	7/19/2023 12:51	7.54	SU
GN-AP-MW-31VR	SULFIDE	Sulfide	7/19/2023 12:51	3	mg/L
GN-AP-MW-31VR	TEMP	Temperature	7/19/2023 12:51	26.17	C
GN-AP-MW-31VR	TURB	Turbidity	7/19/2023 12:51	2.17	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-21	COND	Conductivity	7/26/2023 11:42	590.18	uS/cm
GN-AP-MW-21	DO	DO	7/26/2023 11:42	0.55	mg/L
GN-AP-MW-21	DTW	Depth to Water Detail	7/26/2023 11:42	20.33	ft
GN-AP-MW-21	ORP	Oxidation Reduction Potention	7/26/2023 11:42	153.89	mv
GN-AP-MW-21	PH	pH	7/26/2023 11:42	7.3	SU
GN-AP-MW-21	TEMP	Temperature	7/26/2023 11:42	19.45	C
GN-AP-MW-21	TURB	Turbidity	7/26/2023 11:42	2.25	NTU
GN-AP-MW-21	COND	Conductivity	7/26/2023 11:47	594.9	uS/cm
GN-AP-MW-21	DO	DO	7/26/2023 11:47	0.18	mg/L
GN-AP-MW-21	DTW	Depth to Water Detail	7/26/2023 11:47	20.55	ft
GN-AP-MW-21	ORP	Oxidation Reduction Potention	7/26/2023 11:47	44.83	mv
GN-AP-MW-21	PH	pH	7/26/2023 11:47	7.31	SU
GN-AP-MW-21	TEMP	Temperature	7/26/2023 11:47	19.25	C
GN-AP-MW-21	TURB	Turbidity	7/26/2023 11:47	2.34	NTU
GN-AP-MW-21	COND	Conductivity	7/26/2023 11:52	596.17	uS/cm
GN-AP-MW-21	DO	DO	7/26/2023 11:52	0.13	mg/L
GN-AP-MW-21	DTW	Depth to Water Detail	7/26/2023 11:52	20.55	ft
GN-AP-MW-21	ORP	Oxidation Reduction Potention	7/26/2023 11:52	-9.29	mv
GN-AP-MW-21	PH	pH	7/26/2023 11:52	7.37	SU
GN-AP-MW-21	TEMP	Temperature	7/26/2023 11:52	19.32	C
GN-AP-MW-21	TURB	Turbidity	7/26/2023 11:52	1.93	NTU
GN-AP-MW-21	COND	Conductivity	7/26/2023 11:57	597.81	uS/cm
GN-AP-MW-21	DO	DO	7/26/2023 11:57	0.11	mg/L
GN-AP-MW-21	DTW	Depth to Water Detail	7/26/2023 11:57	20.55	ft
GN-AP-MW-21	ORP	Oxidation Reduction Potention	7/26/2023 11:57	-41.27	mv
GN-AP-MW-21	PH	pH	7/26/2023 11:57	7.44	SU
GN-AP-MW-21	SULFIDE	Sulfide	7/26/2023 11:57	0	mg/L
GN-AP-MW-21	TEMP	Temperature	7/26/2023 11:57	19.37	C
GN-AP-MW-21	TURB	Turbidity	7/26/2023 11:57	1.75	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-3	COND	Conductivity	7/31/2023 15:21	274.38	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 15:21	3.43	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 15:21	27.53	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 15:21	26.36	mv
GN-AP-MW-3	PH	pH	7/31/2023 15:21	7.32	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 15:21	19.44	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 15:21	20.6	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 15:26	276.37	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 15:26	3.28	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 15:26	27.62	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 15:26	25.07	mv
GN-AP-MW-3	PH	pH	7/31/2023 15:26	7.47	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 15:26	22.26	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 15:26	13.6	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 15:31	273.6	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 15:31	3.75	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 15:31	27.7	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 15:31	27.84	mv
GN-AP-MW-3	PH	pH	7/31/2023 15:31	7.64	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 15:31	21.44	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 15:31	37.9	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 15:36	272.2	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 15:36	3.9	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 15:36	27.81	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 15:36	35.07	mv
GN-AP-MW-3	PH	pH	7/31/2023 15:36	7.68	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 15:36	21.22	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 15:36	26.4	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 15:41	272.84	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 15:41	3.82	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 15:41	27.9	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 15:41	41.28	mv
GN-AP-MW-3	PH	pH	7/31/2023 15:41	7.69	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 15:41	21.31	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 15:41	22.3	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 15:46	272.57	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 15:46	3.9	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 15:46	27.98	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 15:46	46.66	mv
GN-AP-MW-3	PH	pH	7/31/2023 15:46	7.71	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 15:46	21.15	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 15:46	19.5	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 15:51	272.34	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-3	DO	DO	7/31/2023 15:51	4.25	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 15:51	28.03	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 15:51	51.59	mv
GN-AP-MW-3	PH	pH	7/31/2023 15:51	7.73	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 15:51	21.17	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 15:51	15.6	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 15:56	271.58	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 15:56	4.41	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 15:56	28.03	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 15:56	55.8	mv
GN-AP-MW-3	PH	pH	7/31/2023 15:56	7.75	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 15:56	21.02	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 15:56	13.7	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 16:01	270.84	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 16:01	4.49	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 16:01	28.03	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 16:01	59.67	mv
GN-AP-MW-3	PH	pH	7/31/2023 16:01	7.76	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 16:01	21.08	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 16:01	11.2	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 16:06	269.95	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 16:06	4.53	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 16:06	28.03	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 16:06	63.25	mv
GN-AP-MW-3	PH	pH	7/31/2023 16:06	7.76	SU
GN-AP-MW-3	TEMP	Temperature	7/31/2023 16:06	20.98	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 16:06	10.12	NTU
GN-AP-MW-3	COND	Conductivity	7/31/2023 16:11	269.49	uS/cm
GN-AP-MW-3	DO	DO	7/31/2023 16:11	4.58	mg/L
GN-AP-MW-3	DTW	Depth to Water Detail	7/31/2023 16:11	28.03	ft
GN-AP-MW-3	ORP	Oxidation Reduction Potention	7/31/2023 16:11	66.41	mv
GN-AP-MW-3	PH	pH	7/31/2023 16:11	7.75	SU
GN-AP-MW-3	SULFIDE	Sulfide	7/31/2023 16:11	0	mg/L
GN-AP-MW-3	TEMP	Temperature	7/31/2023 16:11	21.15	C
GN-AP-MW-3	TURB	Turbidity	7/31/2023 16:11	9.88	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:13	971.98	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:13	0.18	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:13	50.11	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:13	-267.45	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:13	7.78	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:13	20.98	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:13	7.04	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:18	977.13	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:18	0.14	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:18	51.56	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:18	-245.13	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:18	7.93	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:18	20.9	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:18	1.43	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:23	928.07	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:23	0.14	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:23	53.33	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:23	-251.7	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:23	7.88	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:23	20.91	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:23	1.27	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:28	901.28	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:28	0.13	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:28	54.81	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:28	-258.17	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:28	7.79	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:28	21.15	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:28	1.16	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:33	894.12	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:33	0.12	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:33	56.02	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:33	-258.37	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:33	7.78	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:33	21.51	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:33	0.96	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:38	896.45	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:38	0.13	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:38	56.9	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:38	-258.2	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:38	7.79	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:38	21.64	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:38	1.08	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:43	948.92	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-34V	DO	DO	8/1/2023 8:43	0.17	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:43	57.34	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:43	-255.62	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:43	7.79	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:43	22.48	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:43	0.9	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:48	952.45	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:48	0.19	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:48	57.52	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:48	-253.88	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:48	7.8	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:48	22.73	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:48	0.81	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:53	951.72	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:53	0.18	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:53	57.8	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:53	-253.25	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:53	7.8	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:53	22.66	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:53	0.8	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 8:58	958.32	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 8:58	0.21	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 8:58	57.83	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 8:58	-250.69	mv
GN-AP-MW-34V	PH	pH	8/1/2023 8:58	7.8	SU
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 8:58	23.57	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 8:58	0.88	NTU
GN-AP-MW-34V	COND	Conductivity	8/1/2023 9:03	960.32	uS/cm
GN-AP-MW-34V	DO	DO	8/1/2023 9:03	0.22	mg/L
GN-AP-MW-34V	DTW	Depth to Water Detail	8/1/2023 9:03	57.88	ft
GN-AP-MW-34V	ORP	Oxidation Reduction Potention	8/1/2023 9:03	-248.99	mv
GN-AP-MW-34V	PH	pH	8/1/2023 9:03	7.8	SU
GN-AP-MW-34V	SULFIDE	Sulfide	8/1/2023 9:03	1	mg/L
GN-AP-MW-34V	TEMP	Temperature	8/1/2023 9:03	23.73	C
GN-AP-MW-34V	TURB	Turbidity	8/1/2023 9:03	0.76	NTU

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-35V	COND	Conductivity	8/1/2023 9:54	458.01	uS/cm
GN-AP-MW-35V	DO	DO	8/1/2023 9:54	0.2	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 9:54	50.05	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 9:54	-182.87	mv
GN-AP-MW-35V	PH	pH	8/1/2023 9:54	7.94	SU
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 9:54	21.5	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 9:54	1.89	NTU
GN-AP-MW-35V	COND	Conductivity	8/1/2023 9:59	453.66	uS/cm
GN-AP-MW-35V	DO	DO	8/1/2023 9:59	0.16	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 9:59	51.07	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 9:59	-184.43	mv
GN-AP-MW-35V	PH	pH	8/1/2023 9:59	7.98	SU
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 9:59	21.43	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 9:59	2.09	NTU
GN-AP-MW-35V	COND	Conductivity	8/1/2023 10:04	458.94	uS/cm
GN-AP-MW-35V	DO	DO	8/1/2023 10:04	0.26	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 10:04	51.2	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 10:04	-185.51	mv
GN-AP-MW-35V	PH	pH	8/1/2023 10:04	7.97	SU
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 10:04	24.28	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 10:04	1.34	NTU
GN-AP-MW-35V	COND	Conductivity	8/1/2023 10:09	459.56	uS/cm
GN-AP-MW-35V	DO	DO	8/1/2023 10:09	0.3	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 10:09	51.47	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 10:09	-186.28	mv
GN-AP-MW-35V	PH	pH	8/1/2023 10:09	8	SU
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 10:09	24.72	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 10:09	0.94	NTU
GN-AP-MW-35V	COND	Conductivity	8/1/2023 10:14	459.81	uS/cm
GN-AP-MW-35V	DO	DO	8/1/2023 10:14	0.42	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 10:14	51.68	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 10:14	-182.66	mv
GN-AP-MW-35V	PH	pH	8/1/2023 10:14	8.01	SU
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 10:14	24.94	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 10:14	0.91	NTU
GN-AP-MW-35V	COND	Conductivity	8/1/2023 10:19	459.28	uS/cm
GN-AP-MW-35V	DO	DO	8/1/2023 10:19	0.51	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 10:19	51.83	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 10:19	-180.73	mv
GN-AP-MW-35V	PH	pH	8/1/2023 10:19	8.06	SU
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 10:19	25.11	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 10:19	0.78	NTU
GN-AP-MW-35V	COND	Conductivity	8/1/2023 10:24	459.05	uS/cm

**Field Parameters Summary
Plant Gaston Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GN-AP-MW-35V	DO	DO	8/1/2023 10:24	0.55	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 10:24	52	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 10:24	-181.77	mv
GN-AP-MW-35V	PH	pH	8/1/2023 10:24	8.11	SU
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 10:24	25.07	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 10:24	0.75	NTU
GN-AP-MW-35V	COND	Conductivity	8/1/2023 10:29	459.34	uS/cm
GN-AP-MW-35V	DO	DO	8/1/2023 10:29	0.56	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 10:29	52.14	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 10:29	-183.27	mv
GN-AP-MW-35V	PH	pH	8/1/2023 10:29	8.17	SU
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 10:29	24.82	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 10:29	0.72	NTU
GN-AP-MW-35V	COND	Conductivity	8/1/2023 10:34	459.2	uS/cm
GN-AP-MW-35V	DO	DO	8/1/2023 10:34	0.56	mg/L
GN-AP-MW-35V	DTW	Depth to Water Detail	8/1/2023 10:34	52.28	ft
GN-AP-MW-35V	ORP	Oxidation Reduction Potention	8/1/2023 10:34	-185.07	mv
GN-AP-MW-35V	PH	pH	8/1/2023 10:34	8.2	SU
GN-AP-MW-35V	SULFIDE	Sulfide	8/1/2023 10:34	1	mg/L
GN-AP-MW-35V	TEMP	Temperature	8/1/2023 10:34	25.12	C
GN-AP-MW-35V	TURB	Turbidity	8/1/2023 10:34	0.69	NTU

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

Analytical Report



Sample Group : WMWGASAP_1416

Project/Site : Gaston Ash Pond
Wilsonville, AL 35186

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

Attention : Dustin Brooks & Greg Budd

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

September 01, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between July 20, 2023 and August 02, 2023. 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, 2024

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: 2023.09.01
11:21:53 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, o=T Durant Maske c=US
United States u=US United States
e=tmaske@southernco.com
Reason: I am the author of this document
Location:
Date: 2023-09-01 14:37:05:00



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
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Alabama Power's General Test Laboratory.



Total Metals ICP

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	760957	WMWGASAP_1416
BD13311	760957	WMWGASAP_1416
BD13312	760957	WMWGASAP_1416
BD13313	760957	WMWGASAP_1416
BD13314	760957	WMWGASAP_1416
BD13315	760957	WMWGASAP_1416
BD13316	760957	WMWGASAP_1416
BD13317	760957	WMWGASAP_1416
BD13318	760957	WMWGASAP_1416
BD13319	760957	WMWGASAP_1416
BD13320	760958	WMWGASAP_1416
BD13321	760958	WMWGASAP_1416
BD13322	760958	WMWGASAP_1416
BD13323	760958	WMWGASAP_1416
BD13324	760958	WMWGASAP_1416
BD13325	760958	WMWGASAP_1416
BD13326	760958	WMWGASAP_1416
BD13327	760958	WMWGASAP_1416
BD13328	760958	WMWGASAP_1416
BD13329	760958	WMWGASAP_1416
BD13330	760959	WMWGASAP_1416
BD13829	761357	WMWGASAP_1416
BD13830	761357	WMWGASAP_1416
BD13831	761357	WMWGASAP_1416
BD13832	761357	WMWGASAP_1416
BD13833	761357	WMWGASAP_1416
BD13834	761357	WMWGASAP_1416
BD13835	761357	WMWGASAP_1416
BD13836	761357	WMWGASAP_1416
BD13837	761357	WMWGASAP_1416
BD13838	761357	WMWGASAP_1416
BD13839	761358	WMWGASAP_1416
BD13840	761358	WMWGASAP_1416

BD13841	761358	WMWGASAP_1416
BD13842	761358	WMWGASAP_1416
BD13843	761358	WMWGASAP_1416
BD13844	761358	WMWGASAP_1416
BD13845	761358	WMWGASAP_1416
BD13846	761358	WMWGASAP_1416
BD13847	761358	WMWGASAP_1416
BD13848	761358	WMWGASAP_1416
BD13849	761359	WMWGASAP_1416
BD13850	761359	WMWGASAP_1416
BD13851	761359	WMWGASAP_1416
BD13852	761359	WMWGASAP_1416
BD14401	762042	WMWGASAP_1416
BD14402	762042	WMWGASAP_1416
BD14403	762042	WMWGASAP_1416
BD14404	762042	WMWGASAP_1416
BD14405	762042	WMWGASAP_1416
BD14406	762042	WMWGASAP_1416
BD14407	762042	WMWGASAP_1416
BD14408	762042	WMWGASAP_1416
BD14409	762042	WMWGASAP_1416
BD14410	762042	WMWGASAP_1416

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:
 - BD13319 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD13329 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD13838 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD13852 Calcium MS/MSD spike levels were less than 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:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD13315	Calcium	10.15
BD13316	Calcium	10.15
BD13317	Calcium	10.15
BD13318	Calcium	10.15
BD13319	Calcium	10.15
BD13320	Calcium	10.15
BD13324	Calcium	10.15
BD13325	Calcium	10.15
BD13326	Calcium	10.15
BD13327	Calcium	10.15
BD13328	Calcium, Magnesium	10.15
BD13329	Calcium	10.15
BD13829	Calcium, Magnesium, Sodium	10.15
BD13830	Calcium, Sodium	10.15
BD13831	Calcium, Sodium	10.15
BD13833	Calcium, Sodium	10.15
BD13834	Calcium, Magnesium	10.15
BD13835	Calcium, Magnesium	10.15
BD13836	Calcium, Iron, Magnesium	10.15
BD13837	Calcium, Iron, Magnesium	10.15
BD13838	Calcium, Magnesium	10.15
BD13839	Calcium	10.15

Case Narrative

BD13840	Calcium, Sodium	10.15
BD13842	Calcium	10.15
BD13843	Sodium	10.15
BD13844	Calcium	10.15
BD13847	Calcium	10.15
BD13848	Magnesium	10.15
BD13849	Calcium	10.15
BD13850	Calcium	10.15
BD13851	Calcium	10.15
BD13852	Calcium	10.15
BD14402	Calcium, Magnesium	10.15
BD14405	Calcium	10.15
BD14407	Calcium, Sodium	10.15
BD14408	Calcium	10.15
BD14409	Calcium	10.15

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

Dissolved Metals ICP

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	760665	WMWGASAP_1416
BD13311	760665	WMWGASAP_1416
BD13312	760665	WMWGASAP_1416
BD13313	760665	WMWGASAP_1416
BD13314	760665	WMWGASAP_1416
BD13315	760665	WMWGASAP_1416
BD13316	760665	WMWGASAP_1416
BD13317	760665	WMWGASAP_1416
BD13318	760665	WMWGASAP_1416
BD13319	760665	WMWGASAP_1416
BD13320	760666	WMWGASAP_1416
BD13322	760666	WMWGASAP_1416
BD13323	760666	WMWGASAP_1416
BD13324	760666	WMWGASAP_1416
BD13325	760666	WMWGASAP_1416
BD13326	760666	WMWGASAP_1416
BD13327	760666	WMWGASAP_1416
BD13328	760666	WMWGASAP_1416
BD13329	760666	WMWGASAP_1416
BD13829	761303	WMWGASAP_1416
BD13830	761303	WMWGASAP_1416
BD13831	761303	WMWGASAP_1416
BD13833	761303	WMWGASAP_1416
BD13834	761303	WMWGASAP_1416
BD13835	761303	WMWGASAP_1416
BD13836	761303	WMWGASAP_1416
BD13837	761303	WMWGASAP_1416
BD13838	761303	WMWGASAP_1416
BD13839	761303	WMWGASAP_1416
BD13840	761304	WMWGASAP_1416
BD13841	761304	WMWGASAP_1416
BD13842	761304	WMWGASAP_1416
BD13843	761304	WMWGASAP_1416

BD13844	761304	WMWGASAP_1416
BD13845	761304	WMWGASAP_1416
BD13846	761304	WMWGASAP_1416
BD13847	761304	WMWGASAP_1416
BD13848	761304	WMWGASAP_1416
BD13849	761304	WMWGASAP_1416
BD13850	761305	WMWGASAP_1416
BD13851	761305	WMWGASAP_1416
BD13852	761305	WMWGASAP_1416
BD14401	762044	WMWGASAP_1416
BD14402	762044	WMWGASAP_1416
BD14404	762044	WMWGASAP_1416
BD14405	762044	WMWGASAP_1416
BD14407	762044	WMWGASAP_1416
BD14408	762044	WMWGASAP_1416
BD14409	762044	WMWGASAP_1416

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:
 - BD13319 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD13329 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD13839 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD13849 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD13852 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BD14409 Calcium MS/MSD spike levels were less than 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:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD13315	Calcium	10.15
BD13316	Calcium	10.15
BD13317	Calcium	10.15
BD13318	Calcium	10.15
BD13319	Calcium	10.15
BD13320	Calcium	10.15
BD13324	Calcium	10.15
BD13325	Calcium	10.15
BD13326	Calcium	10.15
BD13327	Calcium	10.15
BD13328	Calcium	10.15
BD13329	Calcium	10.15
BD13829	Calcium, Magnesium, Sodium	10.15
BD13830	Calcium, Sodium	10.15
BD13831	Calcium, Sodium	10.15
BD13833	Calcium, Sodium	101.5
BD13834	Calcium, Magnesium	10.15
BD13835	Calcium, Magnesium	10.15
BD13836	Calcium, Iron, Magnesium	10.15
BD13837	Calcium, Iron, Magnesium	10.15
BD13838	Calcium, Magnesium	10.15
BD13839	Calcium	10.15
BD13840	Calcium	10.15
BD13842	Calcium	10.15
BD13843	Sodium	10.15

Case Narrative

BD13844	Calcium	10.15
BD13847	Calcium	10.15
BD13849	Calcium	10.15
BD13850	Calcium	10.15
BD13851	Calcium	10.15
BD13852	Calcium	10.15
BD14402	Calcium, Magnesium	10.15
BD14404	Sodium	10.15
BD14407	Calcium, Sodium	10.15
BD14408	Calcium	10.15
BD14409	Calcium	10.15

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

Total Metals ICPMS

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	761089	WMWGASAP_1416
BD13311	761089	WMWGASAP_1416
BD13312	761089	WMWGASAP_1416
BD13313	761089	WMWGASAP_1416
BD13314	761089	WMWGASAP_1416
BD13315	761089	WMWGASAP_1416
BD13316	761089	WMWGASAP_1416
BD13317	761089	WMWGASAP_1416
BD13318	761089	WMWGASAP_1416
BD13319	761089	WMWGASAP_1416
BD13320	761090	WMWGASAP_1416
BD13321	761090	WMWGASAP_1416
BD13322	761090	WMWGASAP_1416
BD13323	761090	WMWGASAP_1416
BD13324	761090	WMWGASAP_1416
BD13325	761090	WMWGASAP_1416
BD13326	761090	WMWGASAP_1416
BD13327	761090	WMWGASAP_1416
BD13328	761090	WMWGASAP_1416
BD13329	761090	WMWGASAP_1416
BD13330	761091	WMWGASAP_1416
BD13829	761789	WMWGASAP_1416
BD13830	761789	WMWGASAP_1416
BD13831	761789	WMWGASAP_1416
BD13832	761789	WMWGASAP_1416
BD13833	761789	WMWGASAP_1416
BD13834	761789	WMWGASAP_1416
BD13835	761789	WMWGASAP_1416
BD13836	761789	WMWGASAP_1416
BD13837	761789	WMWGASAP_1416
BD13838	761789	WMWGASAP_1416
BD13839	761790	WMWGASAP_1416
BD13840	761790	WMWGASAP_1416

BD13841	761790	WMWGASAP_1416
BD13842	761790	WMWGASAP_1416
BD13843	761790	WMWGASAP_1416
BD13844	761790	WMWGASAP_1416
BD13845	761790	WMWGASAP_1416
BD13846	761790	WMWGASAP_1416
BD13847	761790	WMWGASAP_1416
BD13848	761790	WMWGASAP_1416
BD13849	761791	WMWGASAP_1416
BD13850	761791	WMWGASAP_1416
BD13851	761791	WMWGASAP_1416
BD13852	761791	WMWGASAP_1416
BD14401	762743	WMWGASAP_1416
BD14402	762743	WMWGASAP_1416
BD14403	762743	WMWGASAP_1416
BD14404	762743	WMWGASAP_1416
BD14405	762743	WMWGASAP_1416
BD14406	762743	WMWGASAP_1416
BD14407	762743	WMWGASAP_1416
BD14408	762743	WMWGASAP_1416
BD14409	762743	WMWGASAP_1416
BD14410	762743	WMWGASAP_1416

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.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS 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.

Dissolved Metals ICPMS

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	761092	WMWGASAP_1416
BD13311	761092	WMWGASAP_1416
BD13312	761092	WMWGASAP_1416
BD13313	761092	WMWGASAP_1416
BD13314	761092	WMWGASAP_1416
BD13315	761092	WMWGASAP_1416
BD13316	761092	WMWGASAP_1416
BD13317	761092	WMWGASAP_1416
BD13318	761092	WMWGASAP_1416
BD13319	761092	WMWGASAP_1416
BD13320	761093	WMWGASAP_1416
BD13322	761093	WMWGASAP_1416
BD13323	761093	WMWGASAP_1416
BD13324	761093	WMWGASAP_1416
BD13325	761093	WMWGASAP_1416
BD13326	761093	WMWGASAP_1416
BD13327	761093	WMWGASAP_1416
BD13328	761093	WMWGASAP_1416
BD13329	761093	WMWGASAP_1416
BD13829	761598	WMWGASAP_1416
BD13830	761598	WMWGASAP_1416
BD13831	761598	WMWGASAP_1416
BD13833	761598	WMWGASAP_1416
BD13834	761598	WMWGASAP_1416
BD13835	761598	WMWGASAP_1416
BD13836	761598	WMWGASAP_1416
BD13837	761598	WMWGASAP_1416
BD13838	761598	WMWGASAP_1416
BD13839	761598	WMWGASAP_1416
BD13840	761599, 764438	WMWGASAP_1416
BD13841	761599	WMWGASAP_1416
BD13842	761599	WMWGASAP_1416
BD13843	761599	WMWGASAP_1416

BD13844	761599	WMWGASAP_1416
BD13845	761599	WMWGASAP_1416
BD13846	761599	WMWGASAP_1416
BD13847	761599	WMWGASAP_1416
BD13848	761599	WMWGASAP_1416
BD13849	761599	WMWGASAP_1416
BD13850	761600	WMWGASAP_1416
BD13851	761600	WMWGASAP_1416
BD13852	761600	WMWGASAP_1416
BD14401	762744	WMWGASAP_1416
BD14402	762744, 764438	WMWGASAP_1416
BD14404	762744	WMWGASAP_1416
BD14405	762744	WMWGASAP_1416
BD14407	762744	WMWGASAP_1416
BD14408	762744	WMWGASAP_1416
BD14409	762744	WMWGASAP_1416

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.

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

Mercury

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	760521	WMWGASAP_1416
BD13311	760521	WMWGASAP_1416
BD13312	760521	WMWGASAP_1416
BD13313	760521	WMWGASAP_1416
BD13314	760521	WMWGASAP_1416
BD13315	760521	WMWGASAP_1416
BD13316	760521	WMWGASAP_1416
BD13317	760521	WMWGASAP_1416
BD13318	760521	WMWGASAP_1416
BD13319	760521	WMWGASAP_1416
BD13320	760522	WMWGASAP_1416
BD13321	760522	WMWGASAP_1416
BD13322	760522	WMWGASAP_1416
BD13323	760522	WMWGASAP_1416
BD13324	760522	WMWGASAP_1416
BD13325	760522	WMWGASAP_1416
BD13326	760522	WMWGASAP_1416
BD13327	760522	WMWGASAP_1416
BD13328	760522	WMWGASAP_1416
BD13329	760522	WMWGASAP_1416
BD13330	760523	WMWGASAP_1416
BD13829	761236	WMWGASAP_1416
BD13830	761236	WMWGASAP_1416
BD13831	761236	WMWGASAP_1416
BD13832	761236	WMWGASAP_1416
BD13833	761236	WMWGASAP_1416
BD13834	761236	WMWGASAP_1416
BD13835	761236	WMWGASAP_1416
BD13836	761236	WMWGASAP_1416
BD13837	761236	WMWGASAP_1416
BD13838	761236	WMWGASAP_1416
BD13839	761237	WMWGASAP_1416
BD13840	761237	WMWGASAP_1416

BD13841	761237	WMWGASAP_1416
BD13842	761237	WMWGASAP_1416
BD13843	761237	WMWGASAP_1416
BD13844	761237	WMWGASAP_1416
BD13845	761237	WMWGASAP_1416
BD13846	761237	WMWGASAP_1416
BD13847	761237	WMWGASAP_1416
BD13848	761237	WMWGASAP_1416
BD13849	761238	WMWGASAP_1416
BD13850	761238	WMWGASAP_1416
BD13851	761238	WMWGASAP_1416
BD13852	761238	WMWGASAP_1416
BD14401	762156	WMWGASAP_1416
BD14402	762156	WMWGASAP_1416
BD14403	762156	WMWGASAP_1416
BD14404	762156	WMWGASAP_1416
BD14405	762156	WMWGASAP_1416
BD14406	762156	WMWGASAP_1416
BD14407	762156	WMWGASAP_1416
BD14408	762156	WMWGASAP_1416
BD14409	762156	WMWGASAP_1416
BD14410	762156	WMWGASAP_1416

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.

Total Dissolved Solids

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	760519	WMWGASAP_1416
BD13311	760519	WMWGASAP_1416
BD13312	760519	WMWGASAP_1416
BD13313	760519	WMWGASAP_1416
BD13314	760519	WMWGASAP_1416
BD13315	760519	WMWGASAP_1416
BD13316	760520	WMWGASAP_1416
BD13317	760520	WMWGASAP_1416
BD13318	760520	WMWGASAP_1416
BD13319	760520	WMWGASAP_1416
BD13320	760520	WMWGASAP_1416
BD13321	760520	WMWGASAP_1416
BD13322	760520	WMWGASAP_1416
BD13323	760520	WMWGASAP_1416
BD13324	760520	WMWGASAP_1416
BD13325	760520	WMWGASAP_1416
BD13326	760712	WMWGASAP_1416
BD13327	760712	WMWGASAP_1416
BD13328	760712	WMWGASAP_1416
BD13329	760712	WMWGASAP_1416
BD13330	760712	WMWGASAP_1416
BD13829	761227	WMWGASAP_1416
BD13830	761227	WMWGASAP_1416
BD13831	761227	WMWGASAP_1416
BD13832	761227	WMWGASAP_1416
BD13833	761228	WMWGASAP_1416
BD13834	761228	WMWGASAP_1416
BD13835	761228	WMWGASAP_1416
BD13836	761228	WMWGASAP_1416
BD13837	761228	WMWGASAP_1416
BD13838	761228	WMWGASAP_1416
BD13839	761228	WMWGASAP_1416
BD13840	761228	WMWGASAP_1416

BD13841	761280	WMWGASAP_1416
BD13842	761228	WMWGASAP_1416
BD13843	761228	WMWGASAP_1416
BD13844	761280	WMWGASAP_1416
BD13845	761280	WMWGASAP_1416
BD13846	761280	WMWGASAP_1416
BD13847	761280	WMWGASAP_1416
BD13848	761280	WMWGASAP_1416
BD13849	761280	WMWGASAP_1416
BD13850	761280	WMWGASAP_1416
BD13851	761280	WMWGASAP_1416
BD13852	761280	WMWGASAP_1416
BD14401	762187	WMWGASAP_1416
BD14402	762187	WMWGASAP_1416
BD14403	762187	WMWGASAP_1416
BD14404	762187	WMWGASAP_1416
BD14405	762187	WMWGASAP_1416
BD14406	762187	WMWGASAP_1416
BD14407	762187	WMWGASAP_1416
BD14408	762187	WMWGASAP_1416
BD14409	762187	WMWGASAP_1416
BD14410	762187	WMWGASAP_1416

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 $\leq 10\%$.
- 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 $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BD13321
 - BD13330
 - BD13832
 - BD14403
 - BD14406
 - BD14410

Alkalinity

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13311	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13312	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13313	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13314	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13315	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13316	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13317	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13318	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13319	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13320	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13322	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13323	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13324	761253, 761254, 761255, 761256	WMWGASAP_1416
BD13325	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13326	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13327	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13328	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13329	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13829	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13830	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13831	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13833	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13834	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13835	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13836	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13837	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13838	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13839	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13840	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13841	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13842	761852, 761853, 761854, 761855	WMWGASAP_1416
BD13843	761852, 761853, 761854, 761855	WMWGASAP_1416

BD13844	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13845	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13846	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13847	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13848	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13849	762458, 762459, 762460, 762461	WMWGASAP_1416
BD13850	762344, 762345, 762346, 762347	WMWGASAP_1416
BD13851	762458, 762459, 762460, 762461	WMWGASAP_1416
BD13852	762458, 762459, 762460, 762461	WMWGASAP_1416
BD14401	762458, 762459, 762460, 762461	WMWGASAP_1416
BD14402	762458, 762459, 762460, 762461	WMWGASAP_1416
BD14404	762458, 762459, 762460, 762461	WMWGASAP_1416
BD14405	762458, 762459, 762460, 762461	WMWGASAP_1416
BD14407	762458, 762459, 762460, 762461	WMWGASAP_1416
BD14408	762458, 762459, 762460, 762461	WMWGASAP_1416
BD14409	762458, 762459, 762460, 762461	WMWGASAP_1416

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:
 - BD13317
 - BD13318
 - BD13829
 - BD13830
 - BD13831
 - BD13833
 - BD13834
 - BD13835
 - BD13836
 - BD13837
 - BD13838
 - BD13843
 - BD14402

- BD14407

Anions

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	760837, 760840, 760645	WMWGASAP_1416
BD13311	760837, 760840, 760645	WMWGASAP_1416
BD13312	760837, 760840, 760645	WMWGASAP_1416
BD13313	760837, 760840, 760645	WMWGASAP_1416
BD13314	760837, 760840, 760645	WMWGASAP_1416
BD13315	760837, 760840, 760645	WMWGASAP_1416
BD13316	760837, 760840, 760645	WMWGASAP_1416
BD13317	760837, 760840, 760645	WMWGASAP_1416
BD13318	760837, 760840, 760645	WMWGASAP_1416
BD13319	760837, 760840, 760645	WMWGASAP_1416
BD13320	760838, 760841, 760646	WMWGASAP_1416
BD13321	760838, 760841, 760646	WMWGASAP_1416
BD13322	760838, 760841, 760646	WMWGASAP_1416
BD13323	760838, 760841, 760646	WMWGASAP_1416
BD13324	760838, 760841, 760646	WMWGASAP_1416
BD13325	760838, 760841, 760646	WMWGASAP_1416
BD13326	760838, 760841, 760646	WMWGASAP_1416
BD13327	760838, 760841, 760646	WMWGASAP_1416
BD13328	760838, 760841, 760646	WMWGASAP_1416
BD13329	760838, 760841, 760646	WMWGASAP_1416
BD13330	760839, 760842, 760647	WMWGASAP_1416
BD13829	761369, 761399, 763131	WMWGASAP_1416
BD13830	761369, 761399, 763131	WMWGASAP_1416
BD13831	761369, 761399, 763131	WMWGASAP_1416
BD13832	761369, 761399, 763131	WMWGASAP_1416
BD13833	761369, 761399, 763131	WMWGASAP_1416
BD13834	761369, 761399, 763131	WMWGASAP_1416
BD13835	761369, 761399, 763131	WMWGASAP_1416
BD13836	761369, 761399, 763131	WMWGASAP_1416
BD13837	761369, 761399, 763131	WMWGASAP_1416
BD13838	761369, 761400, 763132	WMWGASAP_1416

BD13839	761370, 761400, 763132	WMWGASAP_1416
BD13840	761370, 761400, 763132	WMWGASAP_1416
BD13841	761370, 761400, 763132	WMWGASAP_1416
BD13842	761370, 761400, 763132	WMWGASAP_1416
BD13843	761370, 761400, 763132	WMWGASAP_1416
BD13844	761370, 761400, 763132	WMWGASAP_1416
BD13845	761370, 761400, 763132	WMWGASAP_1416
BD13846	761370, 761400, 763132	WMWGASAP_1416
BD13847	761370, 761400, 763132	WMWGASAP_1416
BD13848	761370, 761401, 763133	WMWGASAP_1416
BD13849	761371, 761401, 763133	WMWGASAP_1416
BD13850	761371, 761401, 763133	WMWGASAP_1416
BD13851	761371, 761401, 763133	WMWGASAP_1416
BD13852	761371, 761401, 763133	WMWGASAP_1416
BD14401	762237, 762238, 763133	WMWGASAP_1416
BD14402	762237, 762238, 763133	WMWGASAP_1416
BD14403	762237, 762238, 763133	WMWGASAP_1416
BD14404	762237, 762238, 763133	WMWGASAP_1416
BD14405	762237, 762238, 763133	WMWGASAP_1416
BD14406	762237, 762238, 763134	WMWGASAP_1416
BD14407	762237, 762238, 763134	WMWGASAP_1416
BD14408	762237, 762238, 763134	WMWGASAP_1416
BD14409	762237, 762238, 763134	WMWGASAP_1416
BD14410	762237, 762238, 763134	WMWGASAP_1416

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, except for the following:
 - BD13329 Sulfate MS and/or MSD recovery is outside of specification limit.
 - 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:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD13316	Chloride, Sulfate	8, 8
BD13317	Chloride, Sulfate	10, 16
BD13318	Chloride, Sulfate	10, 16
BD13319	Chloride, Sulfate	8, 8
BD13320	Chloride, Sulfate	10, 8
BD13324	Sulfate	4
BD13328	Chloride	8
BD13329	Chloride	16
BD13829	Chloride, Sulfate	25, 20
BD13830	Chloride, Sulfate	25, 25
BD13831	Chloride, Sulfate	25, 25
BD13833	Chloride, Sulfate	40, 32
BD13834	Sulfate	10
BD13835	Sulfate	32
BD13836	Sulfate	32
BD13837	Sulfate	40
BD13838	Sulfate	32
BD13840	Chloride, Sulfate	2, 8
BD13841	Sulfate	3
BD13843	Chloride, Sulfate	20, 5
BD13844	Sulfate	2
BD13848	Chloride	20
BD13848	Sulfate	3
BD13849	Sulfate	5
BD13850	Sulfate	5
BD13851	Chloride, Sulfate	2, 8
BD13852	Sulfate	5

Case Narrative

BD14402	Sulfate	32
BD14405	Sulfate	5
BD14407	Chloride, Sulfate	5, 16
BD14408	Sulfate	3

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

Nitrate-Nitrite

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	760637	WMWGASAP_1416
BD13311	760637	WMWGASAP_1416
BD13312	760637	WMWGASAP_1416
BD13313	760637	WMWGASAP_1416
BD13314	760637	WMWGASAP_1416
BD13315	760637	WMWGASAP_1416
BD13316	760637	WMWGASAP_1416
BD13317	760637	WMWGASAP_1416
BD13318	760637	WMWGASAP_1416
BD13319	760637	WMWGASAP_1416
BD13320	760638	WMWGASAP_1416
BD13321	760638	WMWGASAP_1416
BD13322	760638	WMWGASAP_1416
BD13323	760638	WMWGASAP_1416
BD13324	760638	WMWGASAP_1416
BD13325	760638	WMWGASAP_1416
BD13326	760638	WMWGASAP_1416
BD13327	760638	WMWGASAP_1416
BD13328	760638	WMWGASAP_1416
BD13329	760638	WMWGASAP_1416
BD13330	760639	WMWGASAP_1416
BD13829	761286	WMWGASAP_1416
BD13830	761286	WMWGASAP_1416
BD13831	761286	WMWGASAP_1416
BD13832	761286	WMWGASAP_1416
BD13833	761286	WMWGASAP_1416
BD13834	761286	WMWGASAP_1416
BD13835	761286	WMWGASAP_1416
BD13836	761286	WMWGASAP_1416
BD13837	761286	WMWGASAP_1416
BD13838	761286	WMWGASAP_1416

BD13839	761287	WMWGASAP_1416
BD13840	761287	WMWGASAP_1416
BD13841	761287	WMWGASAP_1416
BD13842	761287	WMWGASAP_1416
BD13843	761287	WMWGASAP_1416
BD13844	761287	WMWGASAP_1416
BD13845	761287	WMWGASAP_1416
BD13846	761287	WMWGASAP_1416
BD13847	761287	WMWGASAP_1416
BD13848	761287	WMWGASAP_1416
BD13849	761288	WMWGASAP_1416
BD13850	761288	WMWGASAP_1416
BD13851	761288	WMWGASAP_1416
BD13852	761288	WMWGASAP_1416
BD14401	762235	WMWGASAP_1416
BD14402	762235	WMWGASAP_1416
BD14403	762235	WMWGASAP_1416
BD14404	762235	WMWGASAP_1416
BD14405	762235	WMWGASAP_1416
BD14406	762235	WMWGASAP_1416
BD14407	762235	WMWGASAP_1416
BD14408	762235	WMWGASAP_1416
BD14409	762235	WMWGASAP_1416
BD14410	762235	WMWGASAP_1416

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.

Case Narrative

- 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.

Total Organic Carbon

Gaston Ash Pond

WMWGASAP_1416

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.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD13310	760511	WMWGASAP_1416
BD13311	760511	WMWGASAP_1416
BD13312	760511	WMWGASAP_1416
BD13313	760511	WMWGASAP_1416
BD13314	760511	WMWGASAP_1416
BD13315	760511	WMWGASAP_1416
BD13316	760511	WMWGASAP_1416
BD13317	760511	WMWGASAP_1416
BD13318	760511	WMWGASAP_1416
BD13319	760511	WMWGASAP_1416
BD13320	760512	WMWGASAP_1416
BD13321	760512	WMWGASAP_1416
BD13322	760512	WMWGASAP_1416
BD13323	760512	WMWGASAP_1416
BD13324	760512	WMWGASAP_1416
BD13325	760512	WMWGASAP_1416
BD13326	760512	WMWGASAP_1416
BD13327	760512	WMWGASAP_1416
BD13328	760512	WMWGASAP_1416
BD13329	760512	WMWGASAP_1416
BD13330	760513	WMWGASAP_1416
BD13829	761191	WMWGASAP_1416
BD13830	761191	WMWGASAP_1416
BD13831	761191	WMWGASAP_1416
BD13832	761191	WMWGASAP_1416
BD13833	761191	WMWGASAP_1416
BD13834	761191	WMWGASAP_1416
BD13835	761191	WMWGASAP_1416
BD13836	761191	WMWGASAP_1416
BD13837	761191	WMWGASAP_1416
BD13838	761191	WMWGASAP_1416
BD13839	761192	WMWGASAP_1416
BD13840	761192	WMWGASAP_1416

BD13841	761192	WMWGASAP_1416
BD13842	761192	WMWGASAP_1416
BD13843	761192	WMWGASAP_1416
BD13844	761192	WMWGASAP_1416
BD13845	761192	WMWGASAP_1416
BD13846	761192	WMWGASAP_1416
BD13847	761192	WMWGASAP_1416
BD13848	761192	WMWGASAP_1416
BD13849	761193	WMWGASAP_1416
BD13850	761193	WMWGASAP_1416
BD13851	761193	WMWGASAP_1416
BD13852	761193	WMWGASAP_1416
BD14401	762020	WMWGASAP_1416
BD14402	762020	WMWGASAP_1416
BD14403	762020	WMWGASAP_1416
BD14404	762020	WMWGASAP_1416
BD14405	762020	WMWGASAP_1416
BD14406	762020	WMWGASAP_1416
BD14407	762020	WMWGASAP_1416
BD14408	762020	WMWGASAP_1416
BD14409	762020	WMWGASAP_1416
BD14410	762020	WMWGASAP_1416

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP

Collected: 7/18/23 13:20

Customer ID:

Submittal Date: 7/20/23 09:08

Laboratory ID Number: BD13310

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 10:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 10:42		1.015	12.2	mg/L	0.070035	0.406	
* Iron, Total	7/25/23 07:40	7/26/23 10:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/25/23 07:40	7/26/23 10:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 10:42		1.015	7.58	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 10:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 10:42		1	7.64	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 10:42		1.015	3.57	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 10:42		1.015	2.63	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 10:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 10:49		1.015	12.1	mg/L	0.070035	0.406	
* Iron, Dissolved	7/20/23 11:18	7/25/23 10:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/20/23 11:18	7/25/23 10:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 10:49		1.015	7.72	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 10:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 10:49		1	7.55	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 10:49		1.015	3.53	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 10:49		1.015	2.65	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 11:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/25/23 10:50	7/25/23 11:43		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	7/25/23 10:50	7/25/23 11:43		1.015	0.0131	mg/L	0.009135	0.05075	J
* Barium, Total	7/25/23 10:50	7/25/23 11:43		1.015	0.00988	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 11:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 11:43		1.015	0.0000744	mg/L	0.000068	0.000203	J
* Chromium, Total	7/25/23 10:50	7/25/23 11:43		1.015	0.000564	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/25/23 10:50	7/25/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 11:43		1.015	0.0294	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP
Collected: 7/18/23 13:20
Customer ID:
Submittal Date: 7/20/23 09:08

Laboratory ID Number: BD13310

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 11:43		1.015	0.239	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 11:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	0.00958	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	0.0000845	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	0.000505	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	0.0242	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	0.245	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 13:45	7/20/23 13:45		1	0.748	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	60.0	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	74.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	59.9	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.55	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-42

Location Code: WMWGASAP

Collected: 7/18/23 13:20

Customer ID:

Submittal Date: 7/20/23 09:08

Laboratory ID Number: BD13310

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 13:30	7/20/23 13:30	1		Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 10:36	7/24/23 10:36	1		3.57	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:46	7/24/23 14:46	1		0.0980	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:19	7/21/23 11:19	1		1.65	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	7/18/23 13:17	7/18/23 13:17			124.24	uS/cm			FA
pH	7/18/23 13:17	7/18/23 13:17			6.13	SU			FA
Temperature	7/18/23 13:17	7/18/23 13:17			20.04	C			FA
Turbidity	7/18/23 13:17	7/18/23 13:17			1.55	NTU			FA
Sulfide	7/18/23 13:17	7/18/23 13:17			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 13:20

Customer ID:

Delivery Date: 7/20/23 09:08

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BD13310

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 13:20

Customer ID:

Delivery Date: 7/20/23 09:08

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BD13310

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/18/23 13:20
Customer ID:
Delivery Date: 7/20/23 09:08

Description: Gaston Ash Pond - MW-42

Laboratory ID Number: BD13310

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13315	Solids, Dissolved	mg/L	1.00	25.0			228	53.0	40.0 to 60.0			1.74	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP

Collected: 7/19/23 08:42

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13311

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 10:45		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 10:45		1.015	20.4	mg/L	0.070035	0.406	
* Iron, Total	7/25/23 07:40	7/26/23 10:45		1.015	0.0405	mg/L	0.008120	0.0406	J
* Lithium, Total	7/25/23 07:40	7/26/23 10:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 10:45		1.015	11.4	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 10:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 10:45		1	6.51	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 10:45		1.015	3.04	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 10:45		1.015	2.55	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 10:52		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 10:52		1.015	19.7	mg/L	0.070035	0.406	
* Iron, Dissolved	7/20/23 11:18	7/25/23 10:52		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/20/23 11:18	7/25/23 10:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 10:52		1.015	11.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 10:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 10:52		1	6.23	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 10:52		1.015	2.91	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 10:52		1.015	2.55	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 11:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 11:47		1.015	0.0947	mg/L	0.009135	0.05075	
* Arsenic, Total	7/25/23 10:50	7/25/23 11:47		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	7/25/23 10:50	7/25/23 11:47		1.015	0.0131	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 11:47		1.015	0.000444	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 11:47		1.015	0.000104	mg/L	0.000068	0.000203	J
* Lead, Total	7/25/23 10:50	7/25/23 11:47		1.015	0.0000872	mg/L	0.000068	0.000203	J
* Manganese, Total	7/25/23 10:50	7/25/23 11:47		1.015	0.00365	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP

Collected: 7/19/23 08:42

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13311

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 11:47		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	7/25/23 10:50	7/25/23 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	0.00916	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	0.0129	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	0.000288	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 12:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 13:47	7/20/23 13:47		1	0.493	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	94.2	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	103	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	92.7	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	1.45	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.50	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-38

Location Code: WMWGASAP
Collected: 7/19/23 08:42
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13311

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 13:43	7/20/23 13:43		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 10:37	7/24/23 10:37		1	4.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:47	7/24/23 14:47		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:21	7/21/23 11:21		1	2.51	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	7/19/23 08:38	7/19/23 08:38			179.90	uS/cm			FA
pH	7/19/23 08:38	7/19/23 08:38			7.78	SU			FA
Temperature	7/19/23 08:38	7/19/23 08:38			18.65	C			FA
Turbidity	7/19/23 08:38	7/19/23 08:38			6.32	NTU			FA
Sulfide	7/19/23 08:38	7/19/23 08:38			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 08:42

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BD13311

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 08:42

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BD13311

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 08:42
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-38

Laboratory ID Number: BD13311

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13315	Solids, Dissolved	mg/L	1.00	25.0			228	53.0	40.0 to 60.0			1.74	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP

Collected: 7/19/23 09:36

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13312

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 10:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 10:49		1.015	28.2	mg/L	0.070035	0.406	
* Iron, Total	7/25/23 07:40	7/26/23 10:49		1.015	0.0416	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 10:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 10:49		1.015	16.2	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 10:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 10:49		1	6.59	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 10:49		1.015	3.08	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 10:49		1.015	0.831	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 10:55		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 10:55		1.015	26.9	mg/L	0.070035	0.406	
* Iron, Dissolved	7/20/23 11:18	7/25/23 10:55		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/20/23 11:18	7/25/23 10:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 10:55		1.015	15.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 10:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 10:55		1	6.44	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 10:55		1.015	3.01	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 10:55		1.015	0.868	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 11:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 11:51		1.015	0.0426	mg/L	0.009135	0.05075	J
* Arsenic, Total	7/25/23 10:50	7/25/23 11:51		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	7/25/23 10:50	7/25/23 11:51		1.015	0.0189	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 11:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 11:51		1.015	0.000295	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 11:51		1.015	0.000222	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 11:51		1.015	0.000101	mg/L	0.000068	0.000203	J
* Manganese, Total	7/25/23 10:50	7/25/23 11:51		1.015	0.104	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWGASAP

Collected: 7/19/23 09:36

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13312

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 11:51		1.015	0.398	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	0.0180	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	0.00223	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	0.391	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 13:49	7/20/23 13:49		1	0.412	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	133	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	133	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	131	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	1.70	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.55	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-41

Location Code: WMWASAP

Collected: 7/19/23 09:36

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13312

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 13:55	7/20/23 13:55	1		Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 10:39	7/24/23 10:39	1		2.35	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:48	7/24/23 14:48	1		Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:22	7/21/23 11:22	1		2.04	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	7/19/23 09:32	7/19/23 09:32			237.26	uS/cm			FA
pH	7/19/23 09:32	7/19/23 09:32			7.45	SU			FA
Temperature	7/19/23 09:32	7/19/23 09:32			18.44	C			FA
Turbidity	7/19/23 09:32	7/19/23 09:32			7.34	NTU			FA
Sulfide	7/19/23 09:32	7/19/23 09:32			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 09:36
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BD13312

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:36

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BD13312

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:36

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-41

Laboratory ID Number: BD13312

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13315	Solids, Dissolved	mg/L	1.00	25.0			228	53.0	40.0 to 60.0			1.74	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP
Collected: 7/19/23 10:35
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13313

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	7/25/23 07:40	7/26/23 10:52		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/25/23 07:40	7/26/23 10:52		1.015	21.7	mg/L	0.070035	0.406		
* Iron, Total	7/25/23 07:40	7/26/23 10:52		1.015	0.0141	mg/L	0.008120	0.0406	J	
* Lithium, Total	7/25/23 07:40	7/26/23 10:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/25/23 07:40	7/26/23 10:52		1.015	12.1	mg/L	0.021315	0.406		
* Molybdenum, Total	7/25/23 07:40	7/26/23 10:52		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 10:52		1	7.81	mg/L				
* Silicon, Total	7/25/23 07:40	7/26/23 10:52		1.015	3.65	mg/L	0.02030	0.25375		
* Sodium, Total	7/25/23 07:40	7/26/23 10:52		1.015	0.953	mg/L	0.04060	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	7/20/23 11:18	7/25/23 10:59		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	7/20/23 11:18	7/25/23 10:59		1.015	20.7	mg/L	0.070035	0.406		
* Iron, Dissolved	7/20/23 11:18	7/25/23 10:59		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 10:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 10:59		1.015	11.9	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 10:59		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 10:59		1	7.64	mg/L				
* Silicon, Dissolved	7/20/23 11:18	7/25/23 10:59		1.015	3.57	mg/L	0.02030	0.25375		
* Sodium, Dissolved	7/20/23 11:18	7/25/23 10:59		1.015	0.959	mg/L	0.04060	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	7/25/23 10:50	7/25/23 11:54		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	7/25/23 10:50	7/25/23 11:54		1.015	0.0549	mg/L	0.009135	0.05075		
* Arsenic, Total	7/25/23 10:50	7/25/23 11:54		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	7/25/23 10:50	7/25/23 11:54		1.015	0.00652	mg/L	0.000508	0.001015		
* Beryllium, Total	7/25/23 10:50	7/25/23 11:54		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/25/23 10:50	7/25/23 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/25/23 10:50	7/25/23 11:54		1.015	0.000934	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/25/23 10:50	7/25/23 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	7/25/23 10:50	7/25/23 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/25/23 10:50	7/25/23 11:54		1.015	0.00514	mg/L	0.000152	0.001015		

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP

Collected: 7/19/23 10:35

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13313

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 11:54		1.015	0.190	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 11:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	0.00549	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	0.000802	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 13:51	7/20/23 13:51		1	0.557	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	100	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	109	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	98.2	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	1.72	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.48	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-40

Location Code: WMWGASAP

Collected: 7/19/23 10:35

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13313

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 14:09	7/20/23 14:09	1		Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 10:40	7/24/23 10:40	1		2.00	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:50	7/24/23 14:50	1		Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:23	7/21/23 11:23	1		1.70	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	7/19/23 10:32	7/19/23 10:32			180.98	uS/cm			FA
pH	7/19/23 10:32	7/19/23 10:32			7.71	SU			FA
Temperature	7/19/23 10:32	7/19/23 10:32			19.96	C			FA
Turbidity	7/19/23 10:32	7/19/23 10:32			3.86	NTU			FA
Sulfide	7/19/23 10:32	7/19/23 10:32			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 10:35

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BD13313

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 10:35

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BD13313

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 10:35

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-40

Laboratory ID Number: BD13313

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13315	Solids, Dissolved	mg/L	1.00	25.0			228	53.0	40.0 to 60.0			1.74	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP
Collected: 7/19/23 11:36
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13314

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 10:55		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 10:55		1.015	35.3	mg/L	0.070035	0.406	
* Iron, Total	7/25/23 07:40	7/26/23 10:55		1.015	0.326	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 10:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 10:55		1.015	6.43	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 10:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 10:55		1	11.7	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 10:55		1.015	5.45	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 10:55		1.015	4.53	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:02		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 11:02		1.015	34.8	mg/L	0.070035	0.406	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:02		1.015	0.306	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:02		1.015	6.49	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:02		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:02		1	11.7	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:02		1.015	5.46	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:02		1.015	4.19	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 11:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/25/23 10:50	7/25/23 11:58		1.015	0.000296	mg/L	0.000112	0.000203	
* Aluminum, Total	7/25/23 10:50	7/25/23 11:58		1.015	0.0150	mg/L	0.009135	0.05075	J
* Barium, Total	7/25/23 10:50	7/25/23 11:58		1.015	0.0290	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 11:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 11:58		1.015	0.000274	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/25/23 10:50	7/25/23 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 11:58		1.015	0.0574	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP

Collected: 7/19/23 11:36

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13314

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 11:58		1.015	0.355	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 11:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	0.000254	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	0.0294	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	0.0600	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	0.354	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 13:53	7/20/23 13:53		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	111	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	148	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	110	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	0.965	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.46	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-39

Location Code: WMWGASAP

Collected: 7/19/23 11:36

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13314

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 14:24	7/20/23 14:24		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 10:41	7/24/23 10:41		1	2.14	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:51	7/24/23 14:51		1	0.107	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:24	7/21/23 11:24		1	13.1	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	7/19/23 11:33	7/19/23 11:33			222.77	uS/cm			FA
pH	7/19/23 11:33	7/19/23 11:33			7.04	SU			FA
Temperature	7/19/23 11:33	7/19/23 11:33			20.33	C			FA
Turbidity	7/19/23 11:33	7/19/23 11:33			1.27	NTU			FA
Sulfide	7/19/23 11:33	7/19/23 11:33			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 11:36

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BD13314

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 11:36

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BD13314

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 11:36
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-39

Laboratory ID Number: BD13314

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13315	Solids, Dissolved	mg/L	1.00	25.0			228	53.0	40.0 to 60.0			1.74	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP
Collected: 7/18/23 13:17
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13315

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 10:58		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 12:33		10.15	52.9	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 10:58		1.015	0.611	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 10:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 10:58		1.015	22.8	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 10:58		1.015	0.0140	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 10:58		1	9.12	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 10:58		1.015	4.26	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 10:58		1.015	12.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 13:36		10.15	47.4	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:05		1.015	0.237	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:05		1.015	22.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:05		1.015	0.0140	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:05		1	8.67	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:05		1.015	4.05	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:05		1.015	12.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 12:01		1.015	0.237	mg/L	0.009135	0.05075	
* Arsenic, Total	7/25/23 10:50	7/25/23 12:01		1.015	0.00223	mg/L	0.000112	0.000203	
* Barium, Total	7/25/23 10:50	7/25/23 12:01		1.015	0.0131	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:01		1.015	0.00120	mg/L	0.000203	0.001015	
* Cobalt, Total	7/25/23 10:50	7/25/23 12:01		1.015	0.000370	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 12:01		1.015	0.000391	mg/L	0.000068	0.000203	
* Manganese, Total	7/25/23 10:50	7/25/23 12:01		1.015	0.0186	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP

Collected: 7/18/23 13:17

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13315

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:01		1.015	0.381	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 12:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	0.00155	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	0.0123	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	0.000145	mg/L	0.000068	0.000203	J
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	0.0150	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	0.341	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 13:55	7/20/23 13:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	179	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	232	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	177	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	1.52	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.50	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-19

Location Code: WMWGASAP

Collected: 7/18/23 13:17

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13315

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 14:39	7/20/23 14:39		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 10:42	7/24/23 10:42		1	14.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:52	7/24/23 14:52		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:25	7/21/23 11:25		1	28.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/18/23 13:14	7/18/23 13:14			370.88	uS/cm			FA
pH	7/18/23 13:14	7/18/23 13:14			7.61	SU			FA
Temperature	7/18/23 13:14	7/18/23 13:14			30.04	C			FA
Turbidity	7/18/23 13:14	7/18/23 13:14			9.73	NTU			FA
Sulfide	7/18/23 13:14	7/18/23 13:14			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/18/23 13:17
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BD13315

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 13:17

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BD13315

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 13:17

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-19

Laboratory ID Number: BD13315

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13315	Solids, Dissolved	mg/L	1.00	25.0			228	53.0	40.0 to 60.0			1.74	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP

Collected: 7/19/23 08:36

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13316

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:01		1.015	1.43	mg/L	0.030000	0.1015	
* Calcium, Total	7/25/23 07:40	7/26/23 12:36		10.15	83.3	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:01		1.015	0.0536	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:01		1.015	0.408	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/25/23 07:40	7/26/23 11:01		1.015	20.0	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:01		1.015	0.669	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:01		1	4.02	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:01		1.015	1.88	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:01		1.015	26.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:08		1.015	1.44	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/20/23 11:18	7/25/23 13:40		10.15	75.8	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:08		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:08		1.015	0.400	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:08		1.015	19.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:08		1.015	0.652	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:08		1	3.87	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:08		1.015	1.81	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:08		1.015	26.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.00779	mg/L	0.000710	0.001015	
* Aluminum, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.0319	mg/L	0.009135	0.05075	J
* Arsenic, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.00121	mg/L	0.000112	0.000203	
* Barium, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.0841	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.000459	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.00159	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.000137	mg/L	0.000068	0.000203	J
* Manganese, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.0213	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP

Collected: 7/19/23 08:36

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13316

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:05		1.015	20.9	mg/L	0.169505	0.5075	
* Selenium, Total	7/25/23 10:50	7/25/23 12:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:05		1.015	0.000757	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	0.00156	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	0.00105	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	0.0829	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	0.000217	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	0.00119	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	0.0201	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	21.6	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:08		1.015	0.000264	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 13:56	7/20/23 13:56		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	33.8	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	436	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	33.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.54	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16V

Location Code: WMWGASAP
Collected: 7/19/23 08:36
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13316

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 14:54	7/20/23 14:54		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:00	7/24/23 11:00		8	92.0	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:53	7/24/23 14:53		1	0.0817	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:34	7/21/23 11:34		8	161	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/19/23 08:33	7/19/23 08:33			660.34	uS/cm			FA
pH	7/19/23 08:33	7/19/23 08:33			8.33	SU			FA
Temperature	7/19/23 08:33	7/19/23 08:33			22.54	C			FA
Turbidity	7/19/23 08:33	7/19/23 08:33			4.6	NTU			FA
Sulfide	7/19/23 08:33	7/19/23 08:33			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 08:36

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BD13316

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0	
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0	
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0	
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0	
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0	
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0	
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0	
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0	
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0	
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0	
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0	
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0	
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0	
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0	
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0	
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0	
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0	
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0	
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0	
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0	
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0	
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0	
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0	
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 08:36

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BD13316

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 08:36

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16V

Laboratory ID Number: BD13316

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP

Collected: 7/19/23 09:41

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13317

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:04		1.015	1.51	mg/L	0.030000	0.1015	
* Calcium, Total	7/25/23 07:40	7/26/23 12:39		10.15	177	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:04		1.015	0.163	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:04		1.015	0.220	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/25/23 07:40	7/26/23 11:04		1.015	11.9	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:04		1.015	0.619	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:04		1	5.09	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:04		1.015	2.38	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:04		1.015	28.5	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:11		1.015	1.53	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/20/23 11:18	7/25/23 13:43		10.15	150	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:11		1.015	0.143	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:11		1.015	0.220	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:11		1.015	11.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:11		1.015	0.615	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:11		1	4.99	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:11		1.015	2.33	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:11		1.015	29.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:09		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 12:09		1.015	0.0168	mg/L	0.009135	0.05075	J
* Arsenic, Total	7/25/23 10:50	7/25/23 12:09		1.015	0.00529	mg/L	0.000112	0.000203	
* Barium, Total	7/25/23 10:50	7/25/23 12:09		1.015	0.113	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:09		1.015	0.000310	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 12:09		1.015	0.00159	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:09		1.015	0.853	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP

Collected: 7/19/23 09:41

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13317

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:09		1.015	20.5	mg/L	0.169505	0.5075	
* Selenium, Total	7/25/23 10:50	7/25/23 12:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	0.00515	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	0.111	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	0.00160	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	0.901	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	20.2	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 13:58	7/20/23 13:58		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	27.5	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	746	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	27.3	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.49	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16

Location Code: WMWGASAP
Collected: 7/19/23 09:41
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13317

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 15:11	7/20/23 15:11		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:01	7/24/23 11:01		10	180	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:54	7/24/23 14:54		1	0.111	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:35	7/21/23 11:35		16	234	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/19/23 09:38	7/19/23 09:38			942.82	uS/cm			FA
pH	7/19/23 09:38	7/19/23 09:38			7.84	SU			FA
Temperature	7/19/23 09:38	7/19/23 09:38			21.36	C			FA
Turbidity	7/19/23 09:38	7/19/23 09:38			2.49	NTU			FA
Sulfide	7/19/23 09:38	7/19/23 09:38			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:41

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BD13317

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:41

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BD13317

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:41

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16

Laboratory ID Number: BD13317

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16 Dup

Location Code: WMWGASAP
Collected: 7/19/23 09:41
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13318

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:08		1.015	1.49	mg/L	0.030000	0.1015	
* Calcium, Total	7/25/23 07:40	7/26/23 12:42		10.15	152	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:08		1.015	0.160	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:08		1.015	0.216	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/25/23 07:40	7/26/23 11:08		1.015	11.8	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:08		1.015	0.620	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:08		1	5.07	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:08		1.015	2.37	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:08		1.015	27.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:14		1.015	1.54	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/20/23 11:18	7/25/23 13:46		10.15	167	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:14		1.015	0.147	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:14		1.015	0.217	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:14		1.015	11.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:14		1.015	0.623	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:14		1	5.01	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:14		1.015	2.34	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:14		1.015	28.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:12		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 12:12		1.015	0.0151	mg/L	0.009135	0.05075	J
* Arsenic, Total	7/25/23 10:50	7/25/23 12:12		1.015	0.00496	mg/L	0.000112	0.000203	
* Barium, Total	7/25/23 10:50	7/25/23 12:12		1.015	0.109	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:12		1.015	0.0000894	mg/L	0.000068	0.000203	J
* Chromium, Total	7/25/23 10:50	7/25/23 12:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/25/23 10:50	7/25/23 12:12		1.015	0.00152	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 12:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:12		1.015	0.803	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16 Dup

Location Code: WMWGASAP
Collected: 7/19/23 09:41
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13318

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:12		1.015	19.5	mg/L	0.169505	0.5075	
* Selenium, Total	7/25/23 10:50	7/25/23 12:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	0.00516	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	0.111	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	0.00165	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	0.880	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	21.2	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:00	7/20/23 14:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	28.7	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	702	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	28.5	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.51	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-16 Dup

Location Code: WMWGASAP

Collected: 7/19/23 09:41

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13318

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 15:25	7/20/23 15:25		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:03	7/24/23 11:03		10	191	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:56	7/24/23 14:56		1	0.107	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:36	7/21/23 11:36		16	211	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/19/23 09:38	7/19/23 09:38			942.82	uS/cm			FA
pH	7/19/23 09:38	7/19/23 09:38			7.84	SU			FA
Temperature	7/19/23 09:38	7/19/23 09:38			21.36	C			FA
Turbidity	7/19/23 09:38	7/19/23 09:38			2.49	NTU			FA
Sulfide	7/19/23 09:38	7/19/23 09:38			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:41

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16 Dup

Laboratory ID Number: BD13318

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0	
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0	
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0	
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0	
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0	
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0	
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0	
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0	
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0	
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0	
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0	
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0	
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0	
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0	
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0	
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0	
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0	
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0	
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0	
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0	
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0	
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0	
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0	
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:41

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16 Dup

Laboratory ID Number: BD13318

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:41

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-16 Dup

Laboratory ID Number: BD13318

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP

Collected: 7/19/23 10:43

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13319

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:11		1.015	0.824	mg/L	0.030000	0.1015	
* Calcium, Total	7/25/23 07:40	7/26/23 12:46		10.15	52.5	mg/L	0.70035	4.06	RA
* Iron, Total	7/25/23 07:40	7/26/23 11:11		1.015	0.0281	mg/L	0.008120	0.0406	J
* Lithium, Total	7/25/23 07:40	7/26/23 11:11		1.015	0.159	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/25/23 07:40	7/26/23 11:11		1.015	19.3	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:11		1.015	0.485	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:11		1	4.79	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:11		1.015	2.24	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:11		1.015	21.2	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:17		1.015	0.838	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/20/23 11:18	7/25/23 13:49		10.15	48.7	mg/L	0.70035	4.06	RA
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:17		1.015	0.0244	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:17		1.015	0.159	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:17		1.015	19.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:17		1.015	0.484	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:17		1	4.73	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:17		1.015	2.21	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:17		1.015	21.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:16		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/25/23 10:50	7/25/23 12:16		1.015	0.00260	mg/L	0.000112	0.000203	
* Aluminum, Total	7/25/23 10:50	7/25/23 12:16		1.015	0.0130	mg/L	0.009135	0.05075	J
* Barium, Total	7/25/23 10:50	7/25/23 12:16		1.015	0.0366	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:16		1.015	0.000218	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 12:16		1.015	0.000311	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 12:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:16		1.015	0.0130	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP
Collected: 7/19/23 10:43
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13319

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:16		1.015	12.1	mg/L	0.169505	0.5075	
* Selenium, Total	7/25/23 10:50	7/25/23 12:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:16		1.015	0.000334	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	0.00262	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	0.0355	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	0.000218	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	0.0133	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	12.4	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:18		1.015	0.000230	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 21:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:02	7/20/23 14:02		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	57.6	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	320	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	56.7	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	0.844	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.50	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-28H

Location Code: WMWGASAP

Collected: 7/19/23 10:43

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13319

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 15:37	7/20/23 15:37		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:04	7/24/23 11:04		8	34.2	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 14:57	7/24/23 14:57		1	0.0831	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 11:37	7/21/23 11:37		8	127	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/19/23 10:40	7/19/23 10:40			482.57	uS/cm			FA
pH	7/19/23 10:40	7/19/23 10:40			8.20	SU			FA
Temperature	7/19/23 10:40	7/19/23 10:40			23.21	C			FA
Turbidity	7/19/23 10:40	7/19/23 10:40			0.36	NTU			FA
Sulfide	7/19/23 10:40	7/19/23 10:40			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 10:43

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BD13319

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.108	0.103	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD13319	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.110	0.102	0.0850 to 0.115	97.0	70.0 to 130	0.00	20.0
BD13319	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0909	0.0900	0.0865	0.0850 to 0.115	90.9	70.0 to 130	0.995	20.0
BD13319	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.0968	0.0969	0.0917	0.0850 to 0.115	96.8	70.0 to 130	0.103	20.0
BD13319	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.104	0.106	0.103	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.101	0.101	0.0994	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BD13319	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.136	0.134	0.0979	0.0850 to 0.115	100	70.0 to 130	1.48	20.0
BD13319	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.132	0.130	0.0970	0.0850 to 0.115	95.4	70.0 to 130	1.53	20.0
BD13319	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0921	0.0944	0.0929	0.0850 to 0.115	92.1	70.0 to 130	2.47	20.0
BD13319	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0973	0.0971	0.0879	0.0850 to 0.115	97.3	70.0 to 130	0.206	20.0
BD13319	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.87	1.89	1.03	0.850 to 1.15	103	70.0 to 130	1.06	20.0
BD13319	Boron, Total	mg/L	0.000488	0.0650	1.00	1.86	1.84	1.01	0.850 to 1.15	104	70.0 to 130	1.08	20.0
BD13319	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.105	0.101	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD13319	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.0955	0.0977	0.0996	0.0850 to 0.115	95.5	70.0 to 130	2.28	20.0
BD13319	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	56.2	59.1	4.96	4.25 to 5.75	150	70.0 to 130	5.03	20.0
BD13319	Calcium, Total	mg/L	-0.00858	0.152	5.00	58.9	59.6	4.98	4.25 to 5.75	128	70.0 to 130	1.18	20.0
BD13319	Chloride	mg/L	-0.0754	1.00	80.0	117	118	9.94	9.00 to 11.0	104	80.0 to 120	0.851	20.0
BD13319	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13319	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.0952	0.0975	0.0987	0.0850 to 0.115	95.0	70.0 to 130	2.39	20.0
BD13319	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.104	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD13319	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.0984	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.61	20.0
BD13319	Fluoride	mg/L	0.0406	0.125	2.50	2.67	2.68	2.68	2.25 to 2.75	103	80.0 to 120	0.374	20.0
BD13319	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	0.227	0.227	0.201	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BD13319	Iron, Total	mg/L	-0.00649	0.0176	0.2	0.231	0.228	0.201	0.170 to 0.230	101	70.0 to 130	1.31	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 10:43

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BD13319

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13319	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.106	0.107	0.107	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD13319	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.101	0.100	0.0995	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13319	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.361	0.364	0.195	0.170 to 0.230	101	70.0 to 130	0.828	20.0
BD13319	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.363	0.360	0.203	0.170 to 0.230	102	70.0 to 130	0.830	20.0
BD13319	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	24.0	24.0	4.90	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD13319	Magnesium, Total	mg/L	0.00318	0.0462	5.00	24.0	24.0	4.97	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD13319	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.117	0.118	0.106	0.0850 to 0.115	104	70.0 to 130	0.851	20.0
BD13319	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.110	0.112	0.101	0.0850 to 0.115	97.0	70.0 to 130	1.80	20.0
BD13319	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00405	0.00403	0.00387	0.00340 to 0.00460	101	70.0 to 130	0.495	20.0
BD13319	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.680	0.680	0.199	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD13319	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.687	0.682	0.202	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BD13319	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	23.1	24.6	10.4	8.50 to 11.5	107	70.0 to 130	6.29	20.0
BD13319	Potassium, Total	mg/L	0.0289	0.367	10.0	21.8	21.8	10.3	8.50 to 11.5	97.0	70.0 to 130	0.00	20.0
BD13319	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.110	0.106	0.110	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BD13319	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.101	0.0991	0.105	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BD13319	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	3.23	3.23	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13319	Silicon, Total	mg/L	0.000164	0.0440	1.00	3.30	3.29	1.04	0.850 to 1.15	106	70.0 to 130	0.303	20.0
BD13319	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	26.7	26.9	4.83	4.25 to 5.75	98.0	70.0 to 130	0.746	20.0
BD13319	Sodium, Total	mg/L	-0.00250	0.0880	5.00	26.1	26.1	5.05	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD13319	Sulfate	mg/L	0.476	2.0	160	287	317	19.5	18.0 to 22.0	100	80.0 to 120	9.93	20.0
BD13319	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.112	0.112	0.109	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD13319	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD13319	Total Organic Carbon	mg/L	0.122	1.00	10.0	10.3	10.2	9.87		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 10:43

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-28H

Laboratory ID Number: BD13319

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13319	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	2.00	-0.052	1.89	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP
Collected: 7/19/23 13:00
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13320

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:27		1.015	1.23	mg/L	0.030000	0.1015	
* Calcium, Total	7/25/23 07:40	7/26/23 12:55		10.15	62.7	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:27		1.015	0.0870	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:27		1.015	0.336	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/25/23 07:40	7/26/23 11:27		1.015	21.0	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:27		1.015	1.06	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:27		1	4.52	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:27		1.015	2.11	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:27		1.015	30.1	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB							
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:33		1.015	1.26	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/20/23 11:18	7/25/23 13:59		10.15	57.3	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:33		1.015	0.0155	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:33		1.015	0.338	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:33		1.015	21.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:33		1.015	1.05	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:33		1	4.45	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:33		1.015	2.08	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:33		1.015	31.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/25/23 10:50	7/25/23 12:38		1.015	0.00230	mg/L	0.000112	0.000203	
* Aluminum, Total	7/25/23 10:50	7/25/23 12:38		1.015	0.0154	mg/L	0.009135	0.05075	J
* Barium, Total	7/25/23 10:50	7/25/23 12:38		1.015	0.0648	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:38		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 12:38		1.015	0.0000691	mg/L	0.000068	0.000203	J
* Lead, Total	7/25/23 10:50	7/25/23 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:38		1.015	0.00361	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP

Collected: 7/19/23 13:00

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13320

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:38		1.015	16.8	mg/L	0.169505	0.5075	
* Selenium, Total	7/25/23 10:50	7/25/23 12:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	0.00206	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	0.0676	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	0.0000723	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	0.00293	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	18.3	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:11	7/20/23 14:11		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	44.8	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	398	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	44.5	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.49	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-29H

Location Code: WMWGASAP

Collected: 7/19/23 13:00

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13320

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 17:06	7/20/23 17:06		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:31	7/24/23 11:31		10	46.0	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:12	7/24/23 15:12		1	0.0829	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 14:06	7/21/23 14:06		8	180	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/19/23 12:57	7/19/23 12:57			588.81	uS/cm			FA
pH	7/19/23 12:57	7/19/23 12:57			8.17	SU			FA
Temperature	7/19/23 12:57	7/19/23 12:57			25.88	C			FA
Turbidity	7/19/23 12:57	7/19/23 12:57			2.06	NTU			FA
Sulfide	7/19/23 12:57	7/19/23 12:57			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 13:00

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BD13320

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13329	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 13:00

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BD13320

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 13:00

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-29H

Laboratory ID Number: BD13320

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-2

Location Code: WMWGASAPFB
Collected: 7/19/23 14:05
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13321

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:30		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 11:30		1.015	0.0727	mg/L	0.070035	0.406	J
* Iron, Total	7/25/23 07:40	7/26/23 11:30		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/25/23 07:40	7/26/23 11:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 11:30		1.015	0.0582	mg/L	0.021315	0.406	J
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:30		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:30		1	Not Detected	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:30		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	7/25/23 07:40	7/26/23 11:30		1.015	0.0506	mg/L	0.04060	0.406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:41		1.015	0.000274	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:13	7/20/23 14:13		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-2

Location Code: WMWGASAPFB

Collected: 7/19/23 14:05

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13321

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 17:18	7/20/23 17:18		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:17	7/24/23 11:17		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:13	7/24/23 15:13		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 14:04	7/21/23 14:04		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/19/23 14:05

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BD13321

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB
Sample Date: 7/19/23 14:05
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BD13321

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/19/23 14:05

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond Field Blank-2

Laboratory ID Number: BD13321

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 7/18/23 09:13
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13322

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 11:33		1.015	30.2	mg/L	0.070035	0.406	
* Iron, Total	7/25/23 07:40	7/26/23 11:33		1.015	0.323	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 11:33		1.015	14.3	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:33		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:33		1	9.97	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:33		1.015	4.66	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:33		1.015	36.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 11:36		1.015	29.1	mg/L	0.070035	0.406	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:36		1.015	0.320	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:36		1.015	14.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:36		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:36		1	9.84	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:36		1.015	4.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:36		1.015	36.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/25/23 10:50	7/25/23 12:45		1.015	0.00292	mg/L	0.000112	0.000203	
* Barium, Total	7/25/23 10:50	7/25/23 12:45		1.015	0.107	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:45		1.015	0.0868	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 7/18/23 09:13
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13322

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:45		1.015	0.474	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	0.00235	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	0.111	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	0.0912	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	0.474	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:15	7/20/23 14:15		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	180	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	219	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	178	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	2.01	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.47	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-9

Location Code: WMWGASAP
Collected: 7/18/23 09:13
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13322

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 17:30	7/20/23 17:30		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:19	7/24/23 11:19		1	9.03	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:14	7/24/23 15:14		1	0.134	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 13:52	7/21/23 13:52		1	20.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/18/23 09:10	7/18/23 09:10			383.27	uS/cm			FA
pH	7/18/23 09:10	7/18/23 09:10			7.64	SU			FA
Temperature	7/18/23 09:10	7/18/23 09:10			25.84	C			FA
Turbidity	7/18/23 09:10	7/18/23 09:10			1.8	NTU			FA
Sulfide	7/18/23 09:10	7/18/23 09:10			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/18/23 09:13
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BD13322

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13329	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/18/23 09:13
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BD13322

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 09:13

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-9

Laboratory ID Number: BD13322

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP
Collected: 7/18/23 11:00
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13323

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 11:36		1.015	38.0	mg/L	0.070035	0.406	
* Iron, Total	7/25/23 07:40	7/26/23 11:36		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/25/23 07:40	7/26/23 11:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 11:36		1.015	20.4	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:36		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:36		1	8.75	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:36		1.015	4.09	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:36		1.015	2.21	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 11:40		1.015	36.7	mg/L	0.070035	0.406	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:40		1.015	20.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:40		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:40		1	8.67	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:40		1.015	4.05	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:40		1.015	2.38	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 12:48		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/25/23 10:50	7/25/23 12:48		1.015	0.000200	mg/L	0.000112	0.000203	J
* Barium, Total	7/25/23 10:50	7/25/23 12:48		1.015	0.0133	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:48		1.015	0.000335	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/25/23 10:50	7/25/23 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:48		1.015	0.00112	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP

Collected: 7/18/23 11:00

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13323

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:48		1.015	0.199	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 12:48		1.015	0.000557	mg/L	0.000508	0.001015	J
* Thallium, Total	7/25/23 10:50	7/25/23 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	0.000198	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	0.0127	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	0.00105	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	0.213	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	0.000535	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:17	7/20/23 14:17		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	173	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	166	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	172	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	1.25	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.53	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-10

Location Code: WMWGASAP

Collected: 7/18/23 11:00

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13323

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 17:44	7/20/23 17:44		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:20	7/24/23 11:20		1	2.72	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:15	7/24/23 15:15		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 13:54	7/21/23 13:54		1	4.01	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/18/23 10:55	7/18/23 10:55			321.04	uS/cm			FA
pH	7/18/23 10:55	7/18/23 10:55			7.05	SU			FA
Temperature	7/18/23 10:55	7/18/23 10:55			23.14	C			FA
Turbidity	7/18/23 10:55	7/18/23 10:55			1.96	NTU			FA
Sulfide	7/18/23 10:55	7/18/23 10:55			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 11:00

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BD13323

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Aluminum, Dissolved	mg/L	-0.000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 11:00

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BD13323

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 11:00

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-10

Laboratory ID Number: BD13323

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 7/18/23 13:35
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13324

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:39		1.015	0.483	mg/L	0.030000	0.1015	
* Calcium, Total	7/25/23 07:40	7/26/23 12:58		10.15	69.3	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:39		1.015	0.589	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 11:39		1.015	36.8	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:39		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:39		1	9.05	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:39		1.015	4.23	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:39		1.015	9.80	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:43		1.015	0.495	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/20/23 11:18	7/25/23 14:02		10.15	76.4	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:43		1.015	0.356	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:43		1.015	36.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:43		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:43		1	8.92	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:43		1.015	4.17	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:43		1.015	10.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/25/23 10:50	7/25/23 12:52		1.015	0.00299	mg/L	0.000112	0.000203	
* Aluminum, Total	7/25/23 10:50	7/25/23 12:52		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/25/23 10:50	7/25/23 12:52		1.015	0.0727	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:52		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/25/23 10:50	7/25/23 12:52		1.015	0.000209	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:52		1.015	0.100	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP
Collected: 7/18/23 13:35
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13324

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:52		1.015	0.269	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	0.00200	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	0.0741	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	0.000139	mg/L	0.000068	0.000203	J
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	0.105	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	0.291	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:19	7/20/23 14:19		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	7/27/23 09:28	7/27/23 13:53		1	197	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	372	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	196	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	7/27/23 09:28	7/27/23 13:53		1	0.924	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	7/27/23 09:28	7/27/23 13:53		1	4.46	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-12

Location Code: WMWGASAP

Collected: 7/18/23 13:35

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13324

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 18:01	7/20/23 18:01	1		Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:21	7/24/23 11:21	1		18.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:17	7/24/23 15:17	1		Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 14:07	7/21/23 14:07	4		113	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/18/23 13:32	7/18/23 13:32			595.58	uS/cm			FA
pH	7/18/23 13:32	7/18/23 13:32			7.26	SU			FA
Temperature	7/18/23 13:32	7/18/23 13:32			23.00	C			FA
Turbidity	7/18/23 13:32	7/18/23 13:32			2.3	NTU			FA
Sulfide	7/18/23 13:32	7/18/23 13:32			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 13:35

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BD13324

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13329	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/18/23 13:35

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BD13324

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/18/23 13:35
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-12

Laboratory ID Number: BD13324

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13324	Alkalinity	mg CaCO3/L					195	52.5	45.0 to 55.0			1.02	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 7/19/23 09:10
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13325

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 13:01		10.15	60.1	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:42		1.015	0.431	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 11:42		1.015	25.2	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:42		1	9.93	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:42		1.015	4.64	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:42		1.015	16.2	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:46		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 14:05		10.15	59.1	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:46		1.015	0.329	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:46		1.015	25.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:46		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:46		1	9.87	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:46		1.015	4.61	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:46		1.015	16.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:56		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/25/23 10:50	7/25/23 12:56		1.015	0.000592	mg/L	0.000112	0.000203	
* Aluminum, Total	7/25/23 10:50	7/25/23 12:56		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/25/23 10:50	7/25/23 12:56		1.015	0.0123	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:56		1.015	0.000259	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 12:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/25/23 10:50	7/25/23 12:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:56		1.015	0.0148	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP

Collected: 7/19/23 09:10

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13325

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:56		1.015	0.315	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 12:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	0.000523	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	0.0133	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	0.0160	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	0.296	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:21	7/20/23 14:21		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	260	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/20/23 11:50	7/24/23 10:15		1	243	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	258	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	1.60	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.51	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-8

Location Code: WMWGASAP
Collected: 7/19/23 09:10
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13325

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 18:19	7/20/23 18:19	1		2.20	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:22	7/24/23 11:22	1		3.51	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:18	7/24/23 15:18	1		0.0855	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 13:56	7/21/23 13:56	1		3.93	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/19/23 09:08	7/19/23 09:08			464.72	uS/cm			FA
pH	7/19/23 09:08	7/19/23 09:08			7.24	SU			FA
Temperature	7/19/23 09:08	7/19/23 09:08			23.17	C			FA
Turbidity	7/19/23 09:08	7/19/23 09:08			2.09	NTU			FA
Sulfide	7/19/23 09:08	7/19/23 09:08			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 09:10
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BD13325

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:10

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BD13325

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 09:10

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-8

Laboratory ID Number: BD13325

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13325	Solids, Dissolved	mg/L	1.00	25.0			247	53.0	40.0 to 60.0			1.63	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 7/19/23 11:20
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13326

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:46		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 13:05		10.15	45.6	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:46		1.015	0.408	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 11:46		1.015	22.7	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:46		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:46		1	8.84	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:46		1.015	4.13	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:46		1.015	4.37	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/20/23 11:18	7/25/23 14:08		10.15	45.5	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:49		1.015	0.385	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:49		1.015	23.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:49		1	8.77	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:49		1.015	4.10	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:49		1.015	4.47	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 12:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 12:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/25/23 10:50	7/25/23 12:59		1.015	0.000507	mg/L	0.000112	0.000203	
* Barium, Total	7/25/23 10:50	7/25/23 12:59		1.015	0.0415	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 12:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 12:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 12:59		1.015	0.000228	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 12:59		1.015	0.000144	mg/L	0.000068	0.000203	J
* Lead, Total	7/25/23 10:50	7/25/23 12:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 12:59		1.015	0.106	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP
Collected: 7/19/23 11:20
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13326

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 12:59		1.015	0.295	mg/L	0.169505	0.5075	J
* Selenium, Total	7/25/23 10:50	7/25/23 12:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 12:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	0.000497	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	0.0413	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	0.109	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	0.295	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 13:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:22	7/20/23 14:22		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	215	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/21/23 11:00	7/26/23 09:38		1	199	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	214	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	1.13	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.52	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-13

Location Code: WMWGASAP

Collected: 7/19/23 11:20

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13326

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 18:35	7/20/23 18:35		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:23	7/24/23 11:23		1	4.19	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:19	7/24/23 15:19		1	0.0611	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 13:57	7/21/23 13:57		1	3.14	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/19/23 11:15	7/19/23 11:15			385.58	uS/cm			FA
pH	7/19/23 11:15	7/19/23 11:15			7.36	SU			FA
Temperature	7/19/23 11:15	7/19/23 11:15			25.83	C			FA
Turbidity	7/19/23 11:15	7/19/23 11:15			1.82	NTU			FA
Sulfide	7/19/23 11:15	7/19/23 11:15			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 11:20

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BD13326

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13329	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 11:20
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BD13326

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 11:20
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-13

Laboratory ID Number: BD13326

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13329	Solids, Dissolved	mg/L	0.0000	25.0			402	53.0	40.0 to 60.0			2.26	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP

Collected: 7/19/23 12:55

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13327

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:49		1.015	0.140	mg/L	0.030000	0.1015	
* Calcium, Total	7/25/23 07:40	7/26/23 13:08		10.15	52.2	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:49		1.015	0.0511	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 11:49		1.015	24.0	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:49		1.015	0.0149	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:49		1	10.7	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:49		1.015	4.99	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:49		1.015	30.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:52		1.015	0.143	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/20/23 11:18	7/25/23 14:11		10.15	50.2	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:52		1.015	0.0354	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:52		1.015	23.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:52		1.015	0.00549	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:52		1	10.6	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:52		1.015	4.93	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:52		1.015	30.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/25/23 10:50	7/25/23 13:03		1.015	0.00609	mg/L	0.000112	0.000203	
* Aluminum, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/25/23 10:50	7/25/23 13:03		1.015	0.0332	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 13:03		1.015	0.0369	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP

Collected: 7/19/23 12:55

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13327

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 13:03		1.015	1.06	mg/L	0.169505	0.5075	
* Selenium, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 13:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	0.00515	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	0.0334	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	0.0385	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	1.08	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:24	7/20/23 14:24		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	227	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/21/23 11:00	7/26/23 09:38		1	282	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	225	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	2.11	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.50	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-31VR

Location Code: WMWGASAP

Collected: 7/19/23 12:55

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13327

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 18:54	7/20/23 18:54		1	1.81	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:25	7/24/23 11:25		1	16.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:20	7/24/23 15:20		1	0.266	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 13:58	7/21/23 13:58		1	26.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/19/23 12:51	7/19/23 12:51			504.01	uS/cm			FA
pH	7/19/23 12:51	7/19/23 12:51			7.54	SU			FA
Temperature	7/19/23 12:51	7/19/23 12:51			26.17	C			FA
Turbidity	7/19/23 12:51	7/19/23 12:51			2.17	NTU			FA
Sulfide	7/19/23 12:51	7/19/23 12:51			3	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 12:55

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BD13327

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13329	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 12:55

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BD13327

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 12:55
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-31VR

Laboratory ID Number: BD13327

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13329	Solids, Dissolved	mg/L	0.0000	25.0			402	53.0	40.0 to 60.0			2.26	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 7/19/23 14:40
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13328

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:52		1.015	0.0463	mg/L	0.030000	0.1015	J
* Calcium, Total	7/25/23 07:40	7/26/23 13:17		10.15	95.9	mg/L	0.70035	4.06	
* Iron, Total	7/25/23 07:40	7/26/23 11:52		1.015	1.17	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 13:17		10.15	45.9	mg/L	0.21315	4.06	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:52		1	13.5	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:52		1.015	6.31	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:52		1.015	33.5	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:55		1.015	0.0485	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	7/20/23 11:18	7/25/23 14:21		10.15	80.3	mg/L	0.70035	4.06	
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:55		1.015	1.14	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:55		1.015	39.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:55		1	13.4	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:55		1.015	6.25	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:55		1.015	34.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 13:06		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 13:06		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/25/23 10:50	7/25/23 13:06		1.015	0.00464	mg/L	0.000112	0.000203	
* Barium, Total	7/25/23 10:50	7/25/23 13:06		1.015	0.0681	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 13:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 13:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 13:06		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 13:06		1.015	0.00123	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 13:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 13:06		1.015	0.237	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP

Collected: 7/19/23 14:40

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13328

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 13:06		1.015	0.956	mg/L	0.169505	0.5075	
* Selenium, Total	7/25/23 10:50	7/25/23 13:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 13:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	0.00455	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	0.0694	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	0.00102	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	0.245	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	0.992	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 14:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:26	7/20/23 14:26		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	347	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/21/23 11:00	7/26/23 09:38		1	404	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	346	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	1.15	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.49	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H

Location Code: WMWGASAP
Collected: 7/19/23 14:40
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13328

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 19:11	7/20/23 19:11		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:32	7/24/23 11:32		8	32.2	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:21	7/24/23 15:21		1	0.144	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 14:00	7/21/23 14:00		1	27.5	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/19/23 14:38	7/19/23 14:38			755.52	uS/cm			FA
pH	7/19/23 14:38	7/19/23 14:38			6.81	SU			FA
Temperature	7/19/23 14:38	7/19/23 14:38			22.87	C			FA
Turbidity	7/19/23 14:38	7/19/23 14:38			1.82	NTU			FA
Sulfide	7/19/23 14:38	7/19/23 14:38			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 14:40

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BD13328

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13329	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 14:40
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BD13328

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 14:40

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-30H

Laboratory ID Number: BD13328

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13329	Solids, Dissolved	mg/L	0.0000	25.0			402	53.0	40.0 to 60.0			2.26	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H Dup

Location Code: WMWGASAP
Collected: 7/19/23 14:40
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13329

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 11:55		1.015	0.0471	mg/L	0.030000	0.1015	J
* Calcium, Total	7/25/23 07:40	7/26/23 13:20		10.15	93.9	mg/L	0.70035	4.06	RA
* Iron, Total	7/25/23 07:40	7/26/23 11:55		1.015	1.31	mg/L	0.008120	0.0406	
* Lithium, Total	7/25/23 07:40	7/26/23 11:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 11:55		1.015	39.6	mg/L	0.021315	0.406	
* Molybdenum, Total	7/25/23 07:40	7/26/23 11:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 11:55		1	13.8	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 11:55		1.015	6.45	mg/L	0.02030	0.25375	
* Sodium, Total	7/25/23 07:40	7/26/23 11:55		1.015	37.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/20/23 11:18	7/25/23 11:59		1.015	0.0477	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	7/20/23 11:18	7/25/23 14:24		10.15	77.6	mg/L	0.70035	4.06	RA
* Iron, Dissolved	7/20/23 11:18	7/25/23 11:59		1.015	1.05	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/20/23 11:18	7/25/23 11:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/20/23 11:18	7/25/23 11:59		1.015	39.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/20/23 11:18	7/25/23 11:59		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/20/23 11:18	7/25/23 11:59		1	13.2	mg/L			
* Silicon, Dissolved	7/20/23 11:18	7/25/23 11:59		1.015	6.17	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/20/23 11:18	7/25/23 11:59		1.015	32.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 13:10		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/25/23 10:50	7/25/23 13:10		1.015	0.00551	mg/L	0.000112	0.000203	
* Aluminum, Total	7/25/23 10:50	7/25/23 13:10		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/25/23 10:50	7/25/23 13:10		1.015	0.0706	mg/L	0.000508	0.001015	
* Beryllium, Total	7/25/23 10:50	7/25/23 13:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 13:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 13:10		1.015	0.000237	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 13:10		1.015	0.00119	mg/L	0.000068	0.000203	
* Lead, Total	7/25/23 10:50	7/25/23 13:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 13:10		1.015	0.236	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H Dup

Location Code: WMWGASAP
Collected: 7/19/23 14:40
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13329

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/25/23 10:50	7/25/23 13:10		1.015	1.00	mg/L	0.169505	0.5075	
* Selenium, Total	7/25/23 10:50	7/25/23 13:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 13:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	0.00431	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	0.0664	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	0.00105	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	0.250	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	0.970	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/20/23 11:18	7/20/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 22:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/20/23 14:28	7/20/23 14:28		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	351	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/21/23 11:00	7/26/23 09:38		1	393	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	350	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	0.866	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.54	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-30H Dup

Location Code: WMWGASAP
Collected: 7/19/23 14:40
Customer ID:
Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13329

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 19:28	7/20/23 19:28		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/24/23 11:41	7/24/23 11:41		16	32.2	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:23	7/24/23 15:23		1	0.149	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 14:01	7/21/23 14:01		1	30.8	mg/L	0.6	2	R
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/19/23 14:38	7/19/23 14:38			755.52	uS/cm			FA
pH	7/19/23 14:38	7/19/23 14:38			6.81	SU			FA
Temperature	7/19/23 14:38	7/19/23 14:38			22.87	C			FA
Turbidity	7/19/23 14:38	7/19/23 14:38			1.82	NTU			FA
Sulfide	7/19/23 14:38	7/19/23 14:38			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 14:40

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-30H Dup

Laboratory ID Number: BD13329

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13329	Aluminum, Dissolved	mg/L	-0.0000403	0.0198	0.100	0.106	0.104	0.103	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD13329	Aluminum, Total	mg/L	0.00116	0.0198	0.100	0.110	0.102	0.102	0.0850 to 0.115	110	70.0 to 130	7.55	20.0
BD13329	Antimony, Dissolved	mg/L	0.000331	0.00100	0.100	0.0991	0.0985	0.0865	0.0850 to 0.115	99.1	70.0 to 130	0.607	20.0
BD13329	Antimony, Total	mg/L	0.000512	0.00100	0.100	0.107	0.0996	0.0917	0.0850 to 0.115	107	70.0 to 130	7.16	20.0
BD13329	Arsenic, Dissolved	mg/L	0.0000191	0.000200	0.100	0.106	0.107	0.103	0.0850 to 0.115	102	70.0 to 130	0.939	20.0
BD13329	Arsenic, Total	mg/L	0.0000104	0.000200	0.100	0.112	0.104	0.0994	0.0850 to 0.115	106	70.0 to 130	7.41	20.0
BD13329	Barium, Dissolved	mg/L	-0.0000006	0.00100	0.100	0.164	0.165	0.0979	0.0850 to 0.115	97.6	70.0 to 130	0.608	20.0
BD13329	Barium, Total	mg/L	-0.0000259	0.00100	0.100	0.182	0.162	0.0970	0.0850 to 0.115	111	70.0 to 130	11.6	20.0
BD13329	Beryllium, Dissolved	mg/L	0.0000143	0.000880	0.100	0.0984	0.0952	0.0929	0.0850 to 0.115	98.4	70.0 to 130	3.31	20.0
BD13329	Beryllium, Total	mg/L	0.0000152	0.000880	0.100	0.0997	0.100	0.0879	0.0850 to 0.115	99.7	70.0 to 130	0.300	20.0
BD13329	Boron, Dissolved	mg/L	0.000444	0.0650	1.00	1.09	1.09	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13329	Boron, Total	mg/L	0.000488	0.0650	1.00	1.08	1.07	1.01	0.850 to 1.15	103	70.0 to 130	0.930	20.0
BD13329	Cadmium, Dissolved	mg/L	0.0000084	0.000147	0.100	0.102	0.0996	0.101	0.0850 to 0.115	102	70.0 to 130	2.38	20.0
BD13329	Cadmium, Total	mg/L	0.0000051	0.000147	0.100	0.105	0.0994	0.0996	0.0850 to 0.115	105	70.0 to 130	5.48	20.0
BD13329	Calcium, Dissolved	mg/L	0.00211	0.152	5.00	82.4	79.4	4.96	4.25 to 5.75	96.0	70.0 to 130	3.71	20.0
BD13329	Calcium, Total	mg/L	-0.00858	0.152	5.00	96.0	95.6	4.98	4.25 to 5.75	42.0	70.0 to 130	0.418	20.0
BD13329	Chloride	mg/L	0.0524	1.00	160	194	195	9.88	9.00 to 11.0	101	80.0 to 120	0.514	20.0
BD13329	Chromium, Dissolved	mg/L	-0.0000624	0.000440	0.100	0.101	0.0992	0.102	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BD13329	Chromium, Total	mg/L	0.0000979	0.000440	0.100	0.102	0.0944	0.0987	0.0850 to 0.115	102	70.0 to 130	7.74	20.0
BD13329	Cobalt, Dissolved	mg/L	-0.000104	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD13329	Cobalt, Total	mg/L	0.0000014	0.000147	0.100	0.105	0.0972	0.100	0.0850 to 0.115	104	70.0 to 130	7.72	20.0
BD13329	Fluoride	mg/L	0.0315	0.125	2.50	2.77	2.80	2.66	2.25 to 2.75	105	80.0 to 120	1.08	20.0
BD13329	Iron, Dissolved	mg/L	-0.00338	0.0176	0.2	1.25	1.24	0.201	0.170 to 0.230	100	70.0 to 130	0.803	20.0
BD13329	Iron, Total	mg/L	-0.00649	0.0176	0.2	1.51	1.50	0.201	0.170 to 0.230	100	70.0 to 130	0.664	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/19/23 14:40
Customer ID:
Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-30H Dup

Laboratory ID Number: BD13329

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13329	Lead, Dissolved	mg/L	0.0000156	0.000147	0.100	0.110	0.107	0.107	0.0850 to 0.115	110	70.0 to 130	2.76	20.0
BD13329	Lead, Total	mg/L	0.0000076	0.000147	0.100	0.0990	0.100	0.0995	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BD13329	Lithium, Dissolved	mg/L	0.000253	0.0154	0.200	0.203	0.210	0.195	0.170 to 0.230	102	70.0 to 130	3.39	20.0
BD13329	Lithium, Total	mg/L	-0.00008	0.0154	0.200	0.212	0.214	0.203	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD13329	Magnesium, Dissolved	mg/L	0.000993	0.0462	5.00	43.6	44.0	4.90	4.25 to 5.75	88.0	70.0 to 130	0.913	20.0
BD13329	Magnesium, Total	mg/L	0.00318	0.0462	5.00	44.7	43.9	4.97	4.25 to 5.75	102	70.0 to 130	1.81	20.0
BD13329	Manganese, Dissolved	mg/L	0.0000221	0.00033	0.100	0.348	0.345	0.106	0.0850 to 0.115	98.0	70.0 to 130	0.866	20.0
BD13329	Manganese, Total	mg/L	0.0000278	0.00033	0.100	0.348	0.325	0.101	0.0850 to 0.115	112	70.0 to 130	6.84	20.0
BD13329	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00392	0.004	0.00387	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BD13329	Molybdenum, Dissolved	mg/L	0.00017	0.0100	0.2	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD13329	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.205	0.204	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13329	Potassium, Dissolved	mg/L	0.00715	0.367	10.0	11.6	11.4	10.4	8.50 to 11.5	106	70.0 to 130	1.74	20.0
BD13329	Potassium, Total	mg/L	0.0289	0.367	10.0	11.7	10.9	10.3	8.50 to 11.5	107	70.0 to 130	7.08	20.0
BD13329	Selenium, Dissolved	mg/L	0.0000341	0.00100	0.100	0.111	0.110	0.110	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD13329	Selenium, Total	mg/L	0.000157	0.00100	0.100	0.108	0.101	0.105	0.0850 to 0.115	108	70.0 to 130	6.70	20.0
BD13329	Silicon, Dissolved	mg/L	0.000691	0.0440	1.00	7.13	7.12	1.02	0.850 to 1.15	96.0	70.0 to 130	0.140	20.0
BD13329	Silicon, Total	mg/L	0.000164	0.0440	1.00	7.47	7.40	1.04	0.850 to 1.15	102	70.0 to 130	0.941	20.0
BD13329	Sodium, Dissolved	mg/L	-0.000263	0.0880	5.00	37.4	38.0	4.83	4.25 to 5.75	90.0	70.0 to 130	1.59	20.0
BD13329	Sodium, Total	mg/L	-0.00250	0.0880	5.00	41.6	41.9	5.05	4.25 to 5.75	92.0	70.0 to 130	0.719	20.0
BD13329	Sulfate	mg/L	0.118	2.0	20.0	45.9	46.0	20.1	18.0 to 22.0	75.5	80.0 to 120	0.218	20.0
BD13329	Thallium, Dissolved	mg/L	-0.0000994	0.000147	0.100	0.110	0.110	0.109	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD13329	Thallium, Total	mg/L	0.0000056	0.000147	0.100	0.103	0.104	0.103	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD13329	Total Organic Carbon	mg/L	0.127	1.00	10.0	10.6	9.75	9.21		106	80.0 to 120	8.35	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/19/23 14:40

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond - MW-30H Dup

Laboratory ID Number: BD13329

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13329	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.06	-0.021	1.88	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD13329	Solids, Dissolved	mg/L	0.0000	25.0			402	53.0	40.0 to 60.0			2.26	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-1

Location Code: WMWGASAPFB

Collected: 7/19/23 15:45

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13330

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/25/23 07:40	7/26/23 12:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/25/23 07:40	7/26/23 12:17		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	7/25/23 07:40	7/26/23 12:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/25/23 07:40	7/26/23 12:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/25/23 07:40	7/26/23 12:17		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	7/25/23 07:40	7/26/23 12:17		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/25/23 07:40	7/26/23 12:17		1	Not Detected	mg/L			
* Silicon, Total	7/25/23 07:40	7/26/23 12:17		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	7/25/23 07:40	7/26/23 12:17		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/25/23 10:50	7/25/23 13:39		1.015	0.000214	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/25/23 10:50	7/25/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	7/20/23 17:16	7/20/23 23:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	7/20/23 14:33	7/20/23 14:33		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	7/21/23 11:00	7/26/23 09:38		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-1

Location Code: WMWASAPFB

Collected: 7/19/23 15:45

Customer ID:

Submittal Date: 7/20/23 09:09

Laboratory ID Number: BD13330

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/20/23 20:50	7/20/23 20:50		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	7/24/23 11:53	7/24/23 11:53		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/24/23 15:36	7/24/23 15:36		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: CES							
* Sulfate	7/21/23 14:16	7/21/23 14:16		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/19/23 15:45

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BD13330

Sample	Analysis	Units	MB				Standard		Rec			Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13330	Aluminum, Total	mg/L	0.00112	0.0198	0.100	0.101	0.0998	0.105	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD13330	Antimony, Total	mg/L	0.000388	0.00100	0.100	0.0930	0.0953	0.0948	0.0850 to 0.115	93.0	70.0 to 130	2.44	20.0
BD13330	Arsenic, Total	mg/L	-0.0000195	0.000200	0.100	0.0980	0.101	0.101	0.0850 to 0.115	98.0	70.0 to 130	3.02	20.0
BD13330	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0976	0.100	0.100	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BD13330	Beryllium, Total	mg/L	0.0000198	0.000880	0.100	0.0995	0.103	0.100	0.0850 to 0.115	99.5	70.0 to 130	3.46	20.0
BD13330	Boron, Total	mg/L	0.000552	0.0650	1.00	1.03	1.00	1.01	0.850 to 1.15	103	70.0 to 130	2.96	20.0
BD13330	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD13330	Calcium, Total	mg/L	-0.00694	0.152	5.00	5.07	4.98	4.80	4.25 to 5.75	101	70.0 to 130	1.79	20.0
BD13330	Chloride	mg/L	0.0135	1.00	10.0	9.99	9.63	9.85	9.00 to 11.0	99.9	80.0 to 120	3.67	20.0
BD13330	Chromium, Total	mg/L	0.0000305	0.000440	0.100	0.0991	0.0987	0.101	0.0850 to 0.115	98.9	70.0 to 130	0.404	20.0
BD13330	Cobalt, Total	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD13330	Fluoride	mg/L	0.0257	0.125	2.50	2.59	2.60	2.62	2.25 to 2.75	104	80.0 to 120	0.385	20.0
BD13330	Iron, Total	mg/L	-0.00569	0.0176	0.2	0.201	0.200	0.212	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13330	Lead, Total	mg/L	0.0000085	0.000147	0.100	0.0988	0.103	0.100	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0
BD13330	Lithium, Total	mg/L	-0.000462	0.0154	0.200	0.200	0.203	0.207	0.170 to 0.230	100	70.0 to 130	1.49	20.0
BD13330	Magnesium, Total	mg/L	0.00797	0.0462	5.00	4.98	4.95	4.97	4.25 to 5.75	99.6	70.0 to 130	0.604	20.0
BD13330	Manganese, Total	mg/L	0.0000304	0.00033	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD13330	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00388	0.00401	0.00396	0.00340 to 0.00460	97.0	70.0 to 130	3.30	20.0
BD13330	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD13330	Potassium, Total	mg/L	0.00856	0.367	10.0	10.2	10.0	10.2	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BD13330	Selenium, Total	mg/L	0.0000798	0.00100	0.100	0.101	0.102	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD13330	Silicon, Total	mg/L	-0.000857	0.0440	1.00	1.03	1.03	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD13330	Sodium, Total	mg/L	0.00114	0.0880	5.00	4.91	4.97	5.08	4.25 to 5.75	98.2	70.0 to 130	1.21	20.0
BD13330	Sulfate	mg/L	0.271	2.0	20.0	20.6	20.8	20.1	18.0 to 22.0	103	80.0 to 120	0.966	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/19/23 15:45

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BD13330

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD13330	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD13330	Total Organic Carbon	mg/L	0.134	1.00	10.0	9.59	8.90	9.05		95.9	80.0 to 120	7.46	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/19/23 15:45

Customer ID:

Delivery Date: 7/20/23 09:09

Description: Gaston Ash Pond Field Blank-1

Laboratory ID Number: BD13330

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13330	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.11	0.094	1.92	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BD13329	Solids, Dissolved	mg/L	0.0000	25.0			402	53.0	40.0 to 60.0			2.26	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 7/24/23 13:10
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13829

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:25		1.015	2.12	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:17		10.15	132	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 13:25		1.015	0.0885	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 13:25		1.015	0.631	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/4/23 11:17		10.15	44.0	mg/L	0.21315	4.06	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:25		1.015	1.91	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:25		1	3.42	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:25		1.015	1.60	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/4/23 11:17		10.15	42.9	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:10		1.015	2.18	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:08		10.15	146	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:10		1.015	0.0601	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:10		1.015	0.642	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/2/23 14:08		10.15	47.0	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:10		1.015	1.96	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:10		1	3.34	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:10		1.015	1.56	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/2/23 14:08		10.15	48.0	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 09:41		1.015	0.0127	mg/L	0.000710	0.001015	
* Arsenic, Total	7/28/23 06:39	7/28/23 09:41		1.015	0.00147	mg/L	0.000112	0.000203	
* Aluminum, Total	7/28/23 06:39	7/28/23 09:41		1.015	0.0215	mg/L	0.009135	0.05075	J
* Barium, Total	7/28/23 06:39	7/28/23 09:41		1.015	0.0841	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 09:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 09:41		1.015	0.000180	mg/L	0.000068	0.000203	J
* Chromium, Total	7/28/23 06:39	7/28/23 09:41		1.015	0.000335	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 09:41		1.015	0.000150	mg/L	0.000068	0.000203	J
* Lead, Total	7/28/23 06:39	7/28/23 09:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 09:41		1.015	0.0129	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP

Collected: 7/24/23 13:10

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13829

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 09:41		1.015	35.9	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 09:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 09:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	0.0101	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	0.00988	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	0.00132	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	0.0853	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	0.000150	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	0.0135	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	35.0	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 17:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 14:47	7/27/23 14:47		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	37.5	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	880	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	37.0	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.52	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17V

Location Code: WMWGASAP
Collected: 7/24/23 13:10
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13829

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 15:08	7/27/23 15:08		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:34	7/28/23 11:34		25	209	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:47	7/31/23 09:47		1	0.0821	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:51	8/10/23 13:51		20	278	mg/L	12.0	40	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/24/23 13:06	7/24/23 13:06			1138.97	uS/cm			FA
pH	7/24/23 13:06	7/24/23 13:06			8.21	SU			FA
Temperature	7/24/23 13:06	7/24/23 13:06			25.75	C			FA
Turbidity	7/24/23 13:06	7/24/23 13:06			5.6	NTU			FA
Sulfide	7/24/23 13:06	7/24/23 13:06			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 13:10

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BD13829

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/24/23 13:10
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BD13829

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/24/23 13:10
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17V

Laboratory ID Number: BD13829

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13831	Solids, Dissolved	mg/L	0.0000	25.0			1020	50.0	40.0 to 60.0			0.976	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP
Collected: 7/24/23 14:29
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13830

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:29		1.015	2.55	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:20		10.15	189	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 13:29		1.015	0.857	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 13:29		1.015	0.207	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/3/23 13:29		1.015	27.8	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:29		1.015	0.884	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:29		1	5.65	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:29		1.015	2.64	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/4/23 11:20		10.15	43.2	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:13		1.015	2.64	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:11		10.15	203	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:13		1.015	0.815	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:13		1.015	0.201	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 14:13		1.015	27.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:13		1.015	0.904	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:13		1	5.78	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:13		1.015	2.70	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/2/23 14:11		10.15	47.2	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 09:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/28/23 06:39	7/28/23 09:44		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/28/23 06:39	7/28/23 09:44		1.015	0.00240	mg/L	0.000112	0.000203	
* Barium, Total	7/28/23 06:39	7/28/23 09:44		1.015	0.121	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 09:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 09:44		1.015	0.0000994	mg/L	0.000068	0.000203	J
* Chromium, Total	7/28/23 06:39	7/28/23 09:44		1.015	0.000674	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 09:44		1.015	0.00486	mg/L	0.000068	0.000203	
* Lead, Total	7/28/23 06:39	7/28/23 09:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 09:44		1.015	1.16	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP

Collected: 7/24/23 14:29

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13830

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 09:44		1.015	23.5	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 09:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 09:44		1.015	0.000188	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	0.00215	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	0.125	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	0.00494	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	1.18	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	23.3	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 17:59		1.015	0.000177	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 14:49	7/27/23 14:49		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	38.9	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	1020	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	38.8	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.49	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV

Location Code: WMWGASAP

Collected: 7/24/23 14:29

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13830

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 15:22	7/27/23 15:22		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:35	7/28/23 11:35		25	215	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:48	7/31/23 09:48		1	0.105	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:50	8/10/23 13:50		25	326	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/24/23 14:26	7/24/23 14:26			1276.38	uS/cm			FA
pH	7/24/23 14:26	7/24/23 14:26			7.24	SU			FA
Temperature	7/24/23 14:26	7/24/23 14:26			21.74	C			FA
Turbidity	7/24/23 14:26	7/24/23 14:26			3.24	NTU			FA
Sulfide	7/24/23 14:26	7/24/23 14:26			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 14:29

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BD13830

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 14:29

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BD13830

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/24/23 14:29
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17SV

Laboratory ID Number: BD13830

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13831	Solids, Dissolved	mg/L	0.0000	25.0			1020	50.0	40.0 to 60.0			0.976	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV Dup

Location Code: WMWGASAP
Collected: 7/24/23 14:29
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13831

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:32		1.015	2.61	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:23		10.15	203	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 13:32		1.015	0.863	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 13:32		1.015	0.204	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/3/23 13:32		1.015	28.0	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:32		1.015	0.905	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:32		1	5.80	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:32		1.015	2.71	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/4/23 11:23		10.15	46.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:17		1.015	2.64	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:14		10.15	181	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:17		1.015	0.828	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:17		1.015	0.194	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 14:17		1.015	27.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:17		1.015	0.896	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:17		1	5.76	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:17		1.015	2.69	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/2/23 14:14		10.15	43.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 09:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 09:48		1.015	0.00228	mg/L	0.000112	0.000203	
* Aluminum, Total	7/28/23 06:39	7/28/23 09:48		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/28/23 06:39	7/28/23 09:48		1.015	0.122	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 09:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 09:48		1.015	0.0000919	mg/L	0.000068	0.000203	J
* Chromium, Total	7/28/23 06:39	7/28/23 09:48		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/28/23 06:39	7/28/23 09:48		1.015	0.00462	mg/L	0.000068	0.000203	
* Lead, Total	7/28/23 06:39	7/28/23 09:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 09:48		1.015	1.13	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV Dup

Location Code: WMWGASAP

Collected: 7/24/23 14:29

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13831

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 09:48		1.015	23.1	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 09:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 09:48		1.015	0.000173	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	0.00213	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	0.127	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	0.0000823	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	0.00479	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	1.19	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	22.5	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:02		1.015	0.000164	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 14:51	7/27/23 14:51		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	38.8	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	1030	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	38.7	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.49	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17SV Dup

Location Code: WMWGASAP

Collected: 7/24/23 14:29

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13831

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 15:37	7/27/23 15:37		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:36	7/28/23 11:36		25	209	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:50	7/31/23 09:50		1	0.101	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:52	8/10/23 13:52		25	355	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/24/23 14:26	7/24/23 14:26			1276.38	uS/cm			FA
pH	7/24/23 14:26	7/24/23 14:26			7.24	SU			FA
Temperature	7/24/23 14:26	7/24/23 14:26			21.74	C			FA
Turbidity	7/24/23 14:26	7/24/23 14:26			3.24	NTU			FA
Sulfide	7/24/23 14:26	7/24/23 14:26			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 14:29

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17SV Dup

Laboratory ID Number: BD13831

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 14:29

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17SV Dup

Laboratory ID Number: BD13831

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/24/23 14:29
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17SV Dup

Laboratory ID Number: BD13831

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13831	Solids, Dissolved	mg/L	0.0000	25.0			1020	50.0	40.0 to 60.0			0.976	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-4

Location Code: WMWGASAPFB

Collected: 7/24/23 15:00

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13832

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	7/28/23 06:39	8/3/23 13:35		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	7/28/23 06:39	8/3/23 13:35		1.015	0.466	mg/L	0.070035	0.406		
* Iron, Total	7/28/23 06:39	8/3/23 13:35		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	7/28/23 06:39	8/3/23 13:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	7/28/23 06:39	8/3/23 13:35		1.015	0.0801	mg/L	0.021315	0.406	J	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:35		1.015	0.00676	mg/L	0.005075	0.01015	J	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:35		1	Not Detected	mg/L				
* Silicon, Total	7/28/23 06:39	8/3/23 13:35		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	7/28/23 06:39	8/3/23 13:35		1.015	0.120	mg/L	0.04060	0.406	J	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Aluminum, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Barium, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	7/28/23 06:39	7/28/23 09:51		1.015	0.000279	mg/L	0.000203	0.001015	J	
* Cobalt, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	7/28/23 06:39	7/28/23 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:28		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: SC								
* Nitrogen, Nitrate/Nitrite	7/27/23 14:53	7/27/23 14:53		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	Not Detected	mg/L		25	U	

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-4

Location Code: WMWGASAPFB

Collected: 7/24/23 15:00

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13832

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 15:51	7/27/23 15:51		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	7/28/23 11:37	7/28/23 11:37		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:51	7/31/23 09:51		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:53	8/10/23 13:53		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/24/23 15:00

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BD13832

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/24/23 15:00

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BD13832

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/24/23 15:00

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond Field Blank-4

Laboratory ID Number: BD13832

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13831	Solids, Dissolved	mg/L	0.0000	25.0			1020	50.0	40.0 to 60.0			0.976	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 7/25/23 08:10
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13833

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:38		1.015	3.56	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:26		10.15	379	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 13:38		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/28/23 06:39	8/3/23 13:38		1.015	1.28	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/3/23 13:38		1.015	18.9	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:38		1.015	3.03	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:38		1	6.21	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:38		1.015	2.90	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/4/23 11:26		10.15	52.1	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:20		1.015	3.56	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:17		101.5	353	mg/L	7.0035	40.6	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:20		1.015	1.30	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 14:20		1.015	18.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:20		1.015	3.07	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:20		1	6.16	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:20		1.015	2.88	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/2/23 14:17		101.5	50.7	mg/L	4.060	40.6	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 09:55		1.015	0.00137	mg/L	0.000710	0.001015	
* Aluminum, Total	7/28/23 06:39	7/28/23 09:55		1.015	0.0452	mg/L	0.009135	0.05075	J
* Arsenic, Total	7/28/23 06:39	7/28/23 09:55		1.015	0.00747	mg/L	0.000112	0.000203	
* Barium, Total	7/28/23 06:39	7/28/23 09:55		1.015	0.119	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 09:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 09:55		1.015	0.000347	mg/L	0.000068	0.000203	
* Chromium, Total	7/28/23 06:39	7/28/23 09:55		1.015	0.000225	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 09:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 09:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 09:55		1.015	0.0314	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP

Collected: 7/25/23 08:10

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13833

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 09:55		1.015	49.2	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 09:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 09:55		1.015	0.000105	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	0.00151	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	0.0444	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	0.00742	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	0.118	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	0.000218	mg/L	0.000068	0.000203	
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	0.0315	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	49.8	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:06		1.015	0.000118	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 14:55	7/27/23 14:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	15.1	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	2010	mg/L		125	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	12.1	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	2.11	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.18	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-17

Location Code: WMWGASAP
Collected: 7/25/23 08:10
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13833

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 16:06	7/27/23 16:06	1		1.03	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:38	7/28/23 11:38	40		532	mg/L	20.00	40	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:52	7/31/23 09:52	1		0.102	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:54	8/10/23 13:54	32		493	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/25/23 08:07	7/25/23 08:07			2214.14	uS/cm			FA
pH	7/25/23 08:07	7/25/23 08:07			9.16	SU			FA
Temperature	7/25/23 08:07	7/25/23 08:07			21.19	C			FA
Turbidity	7/25/23 08:07	7/25/23 08:07			0.78	NTU			FA
Sulfide	7/25/23 08:07	7/25/23 08:07			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 08:10

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BD13833

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 08:10

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BD13833

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 08:10

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-17

Laboratory ID Number: BD13833

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 7/25/23 09:08
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13834

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:41		1.015	1.65	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:29		10.15	128	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 13:41		1.015	0.306	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 13:41		1.015	0.0463	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/4/23 11:29		10.15	55.6	mg/L	0.21315	4.06	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:41		1.015	0.0724	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:41		1	9.18	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:41		1.015	4.29	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 13:41		1.015	10.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:23		1.015	1.67	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:21		10.15	122	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:23		1.015	0.247	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:23		1.015	0.0465	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/2/23 14:21		10.15	53.0	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:23		1.015	0.0666	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:23		1	9.16	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:23		1.015	4.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 14:23		1.015	11.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 09:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/28/23 06:39	7/28/23 09:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/28/23 06:39	7/28/23 09:59		1.015	0.00284	mg/L	0.000112	0.000203	
* Barium, Total	7/28/23 06:39	7/28/23 09:59		1.015	0.0499	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 09:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 09:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 09:59		1.015	0.000351	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 09:59		1.015	0.00154	mg/L	0.000068	0.000203	
* Lead, Total	7/28/23 06:39	7/28/23 09:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 09:59		1.015	0.673	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 7/25/23 09:08
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13834

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 09:59		1.015	2.99	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 09:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 09:59		1.015	0.000436	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	0.00242	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	0.0512	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	0.000347	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	0.00163	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	0.703	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	2.98	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:09		1.015	0.000490	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 14:57	7/27/23 14:57		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	285	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	620	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	284	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	0.510	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.56	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-18

Location Code: WMWGASAP
Collected: 7/25/23 09:08
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13834

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 16:19	7/27/23 16:19		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:40	7/28/23 11:40		1	13.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:53	7/31/23 09:53		1	0.0686	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:56	8/10/23 13:56		10	216	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/25/23 09:04	7/25/23 09:04			810.12	uS/cm			FA
pH	7/25/23 09:04	7/25/23 09:04			6.90	SU			FA
Temperature	7/25/23 09:04	7/25/23 09:04			20.15	C			FA
Turbidity	7/25/23 09:04	7/25/23 09:04			1.58	NTU			FA
Sulfide	7/25/23 09:04	7/25/23 09:04			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 09:08

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BD13834

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 09:08

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BD13834

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 09:08

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-18

Laboratory ID Number: BD13834

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 7/25/23 10:18
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13835

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:44		1.015	3.08	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:32		10.15	122	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 13:44		1.015	0.433	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 13:44		1.015	0.0422	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/4/23 11:32		10.15	71.2	mg/L	0.21315	4.06	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:44		1.015	0.326	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:44		1	7.70	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:44		1.015	3.60	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 13:44		1.015	17.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:26		1.015	3.09	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:24		10.15	115	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:26		1.015	0.301	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:26		1.015	0.0418	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/2/23 14:24		10.15	69.6	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:26		1.015	0.330	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:26		1	7.51	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:26		1.015	3.51	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 14:26		1.015	18.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 10:02		1.015	0.00244	mg/L	0.000112	0.000203	
* Aluminum, Total	7/28/23 06:39	7/28/23 10:02		1.015	0.0820	mg/L	0.009135	0.05075	
* Barium, Total	7/28/23 06:39	7/28/23 10:02		1.015	0.0279	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:02		1.015	0.000305	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:02		1.015	0.0000953	mg/L	0.000068	0.000203	J
* Lead, Total	7/28/23 06:39	7/28/23 10:02		1.015	0.000135	mg/L	0.000068	0.000203	J
* Manganese, Total	7/28/23 06:39	7/28/23 10:02		1.015	0.0118	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 7/25/23 10:18
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13835

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:02		1.015	0.328	mg/L	0.169505	0.5075	J
* Selenium, Total	7/28/23 06:39	7/28/23 10:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	0.00236	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	0.0279	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	0.0117	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	0.300	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 14:58	7/27/23 14:58		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	69.4	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	850	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	68.4	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	0.972	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.45	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20V

Location Code: WMWGASAP
Collected: 7/25/23 10:18
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13835

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 16:35	7/27/23 16:35		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:41	7/28/23 11:41		1	19.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:54	7/31/23 09:54		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:57	8/10/23 13:57		32	504	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/25/23 10:15	7/25/23 10:15			963.58	uS/cm			FA
pH	7/25/23 10:15	7/25/23 10:15			8.10	SU			FA
Temperature	7/25/23 10:15	7/25/23 10:15			21.99	C			FA
Turbidity	7/25/23 10:15	7/25/23 10:15			6.01	NTU			FA
Sulfide	7/25/23 10:15	7/25/23 10:15			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 10:18

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BD13835

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 10:18

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BD13835

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/25/23 10:18
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20V

Laboratory ID Number: BD13835

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP

Collected: 7/25/23 11:48

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13836

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:47		1.015	2.72	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:35		10.15	130	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/4/23 11:35		10.15	9.84	mg/L	0.08120	0.406	
* Lithium, Total	7/28/23 06:39	8/3/23 13:47		1.015	0.00918	mg/L	0.007105	0.01999956	J
* Magnesium, Total	7/28/23 06:39	8/4/23 11:35		10.15	49.8	mg/L	0.21315	4.06	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:47		1.015	0.208	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:47		1	15.8	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:47		1.015	7.36	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 13:47		1.015	15.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:29		1.015	2.74	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:27		10.15	135	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/2/23 14:27		10.15	9.35	mg/L	0.08120	0.406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:29		1.015	0.00852	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	7/27/23 13:35	8/2/23 14:27		10.15	53.2	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:29		1.015	0.208	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:29		1	15.6	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:29		1.015	7.27	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 14:29		1.015	16.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:06		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 10:06		1.015	0.00229	mg/L	0.000112	0.000203	
* Aluminum, Total	7/28/23 06:39	7/28/23 10:06		1.015	0.0102	mg/L	0.009135	0.05075	J
* Barium, Total	7/28/23 06:39	7/28/23 10:06		1.015	0.109	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:06		1.015	0.000247	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:06		1.015	0.000707	mg/L	0.000068	0.000203	
* Lead, Total	7/28/23 06:39	7/28/23 10:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:06		1.015	0.179	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP

Collected: 7/25/23 11:48

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13836

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:06		1.015	0.655	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	0.00196	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	0.112	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	0.000691	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	0.180	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	0.651	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:00	7/27/23 15:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	96.8	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	706	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	96.7	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.52	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV

Location Code: WMWGASAP

Collected: 7/25/23 11:48

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13836

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 16:53	7/27/23 16:53		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:42	7/28/23 11:42		1	16.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:56	7/31/23 09:56		1	0.0850	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:58	8/10/23 13:58		32	414	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/25/23 11:45	7/25/23 11:45			870.31	uS/cm			FA
pH	7/25/23 11:45	7/25/23 11:45			7.12	SU			FA
Temperature	7/25/23 11:45	7/25/23 11:45			20.18	C			FA
Turbidity	7/25/23 11:45	7/25/23 11:45			8.92	NTU			FA
Sulfide	7/25/23 11:45	7/25/23 11:45			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:48

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BD13836

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:48

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BD13836

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:48

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20SV

Laboratory ID Number: BD13836

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP
Collected: 7/25/23 11:48
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13837

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:51		1.015	2.73	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:39		10.15	131	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/4/23 11:39		10.15	9.58	mg/L	0.08120	0.406	
* Lithium, Total	7/28/23 06:39	8/3/23 13:51		1.015	0.00881	mg/L	0.007105	0.01999956	J
* Magnesium, Total	7/28/23 06:39	8/4/23 11:39		10.15	51.1	mg/L	0.21315	4.06	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:51		1.015	0.206	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:51		1	15.7	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:51		1.015	7.35	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 13:51		1.015	16.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:32		1.015	2.75	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:30		10.15	138	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/2/23 14:30		10.15	9.54	mg/L	0.08120	0.406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:32		1.015	0.00793	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	7/27/23 13:35	8/2/23 14:30		10.15	54.7	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:32		1.015	0.208	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:32		1	15.6	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:32		1.015	7.30	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 14:32		1.015	16.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:09		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 10:09		1.015	0.00208	mg/L	0.000112	0.000203	
* Aluminum, Total	7/28/23 06:39	7/28/23 10:09		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/28/23 06:39	7/28/23 10:09		1.015	0.113	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:09		1.015	0.000235	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:09		1.015	0.000689	mg/L	0.000068	0.000203	
* Lead, Total	7/28/23 06:39	7/28/23 10:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:09		1.015	0.173	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP

Collected: 7/25/23 11:48

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13837

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:09		1.015	0.644	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	0.00190	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	0.111	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	0.000686	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	0.177	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	0.654	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:02	7/27/23 15:02		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	96.9	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	728	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	96.7	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.58	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20SV Dup

Location Code: WMWGASAP

Collected: 7/25/23 11:48

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13837

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 17:05	7/27/23 17:05	1		Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:43	7/28/23 11:43	1		16.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 09:57	7/31/23 09:57	1		0.0841	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 13:59	8/10/23 13:59	40		417	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/25/23 11:45	7/25/23 11:45			870.31	uS/cm			FA
pH	7/25/23 11:45	7/25/23 11:45			7.12	SU			FA
Temperature	7/25/23 11:45	7/25/23 11:45			20.18	C			FA
Turbidity	7/25/23 11:45	7/25/23 11:45			8.92	NTU			FA
Sulfide	7/25/23 11:45	7/25/23 11:45			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:48

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BD13837

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13837	Fluoride	mg/L	0.027	0.125	2.50	2.67	2.73	2.66	2.25 to 2.75	103	80.0 to 120	2.22	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:48

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BD13837

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13837	Sulfate	mg/L	0.0944	2.0	800	1220	1220	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/25/23 11:48
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20SV Dup

Laboratory ID Number: BD13837

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP

Collected: 7/25/23 12:39

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13838

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 13:54		1.015	4.79	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 11:42		10.15	165	mg/L	0.70035	4.06	RA
* Iron, Total	7/28/23 06:39	8/3/23 13:54		1.015	0.0167	mg/L	0.008120	0.0406	J
* Lithium, Total	7/28/23 06:39	8/3/23 13:54		1.015	0.134	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/4/23 11:42		10.15	51.5	mg/L	0.21315	4.06	
* Molybdenum, Total	7/28/23 06:39	8/3/23 13:54		1.015	0.915	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 13:54		1	6.01	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 13:54		1.015	2.81	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 13:54		1.015	28.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:36		1.015	4.74	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:33		10.15	156	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:36		1.015	0.0157	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:36		1.015	0.130	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/2/23 14:33		10.15	50.8	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:36		1.015	0.895	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:36		1	6.01	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:36		1.015	2.81	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 14:36		1.015	28.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:13		1.015	0.000756	mg/L	0.000710	0.001015	J
* Aluminum, Total	7/28/23 06:39	7/28/23 10:13		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/28/23 06:39	7/28/23 10:13		1.015	0.00424	mg/L	0.000112	0.000203	
* Barium, Total	7/28/23 06:39	7/28/23 10:13		1.015	0.0543	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:13		1.015	0.0000815	mg/L	0.000068	0.000203	J
* Chromium, Total	7/28/23 06:39	7/28/23 10:13		1.015	0.000418	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 10:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:13		1.015	0.00314	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP

Collected: 7/25/23 12:39

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13838

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:13		1.015	6.59	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	0.00425	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	0.0532	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	0.0000754	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	0.00283	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	6.31	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 22:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:04	7/27/23 15:04		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	48.2	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	950	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	47.9	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.49	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-20

Location Code: WMWGASAP

Collected: 7/25/23 12:39

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13838

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 17:20	7/27/23 17:20		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:44	7/28/23 11:44		1	18.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:09	7/31/23 10:09		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:28	8/10/23 14:28		32	614	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/25/23 12:36	7/25/23 12:36			1071.20	uS/cm			FA
pH	7/25/23 12:36	7/25/23 12:36			7.91	SU			FA
Temperature	7/25/23 12:36	7/25/23 12:36			21.67	C			FA
Turbidity	7/25/23 12:36	7/25/23 12:36			2.76	NTU			FA
Sulfide	7/25/23 12:36	7/25/23 12:36			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 12:39

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BD13838

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13838	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13838	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0971	0.0987	0.0973	0.0850 to 0.115	96.3	70.0 to 130	1.63	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13838	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.104	0.102	0.102	0.0850 to 0.115	99.8	70.0 to 130	1.94	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13838	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.147	0.149	0.0963	0.0850 to 0.115	92.7	70.0 to 130	1.35	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13838	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0912	0.0925	0.0970	0.0850 to 0.115	91.2	70.0 to 130	1.42	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13838	Boron, Total	mg/L	0.000964	0.0650	1.00	5.79	5.77	1.01	0.850 to 1.15	100	70.0 to 130	0.346	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13838	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0964	0.0958	0.101	0.0850 to 0.115	96.3	70.0 to 130	0.624	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13838	Calcium, Total	mg/L	0.000592	0.152	5.00	171	172	4.94	4.25 to 5.75	120	70.0 to 130	0.583	20.0
BD13838	Chloride	mg/L	0.0305	1.00	10.0	29.4	29.7	9.97	9.00 to 11.0	105	80.0 to 120	1.02	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13838	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0979	0.0950	0.0989	0.0850 to 0.115	97.5	70.0 to 130	3.01	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13838	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0984	0.0966	0.0999	0.0850 to 0.115	98.4	70.0 to 130	1.85	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13838	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.212	0.209	0.201	0.170 to 0.230	97.6	70.0 to 130	1.43	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 12:39

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BD13838

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD13838	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0963	0.0952	0.101	0.0850 to 0.115	96.3	70.0 to 130	1.15	20.0
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD13838	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.340	0.337	0.203	0.170 to 0.230	103	70.0 to 130	0.886	20.0
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0
BD13838	Magnesium, Total	mg/L	0.00144	0.0462	5.00	56.7	55.9	5.14	4.25 to 5.75	104	70.0 to 130	1.42	20.0
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0
BD13838	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.103	0.100	0.102	0.0850 to 0.115	99.9	70.0 to 130	2.96	20.0
BD13838	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00397	0.00397	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0
BD13838	Molybdenum, Total	mg/L	0.001	0.0100	0.2	1.10	1.10	0.198	0.170 to 0.230	92.5	70.0 to 130	0.00	20.0
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0
BD13838	Potassium, Total	mg/L	0.0215	0.367	10.0	16.7	16.4	10.3	8.50 to 11.5	101	70.0 to 130	1.81	20.0
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13838	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.0990	0.0977	0.105	0.0850 to 0.115	99.0	70.0 to 130	1.32	20.0
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0
BD13838	Silicon, Total	mg/L	-0.000042	0.0440	1.00	3.84	3.82	1.02	0.850 to 1.15	103	70.0 to 130	0.522	20.0
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0
BD13838	Sodium, Total	mg/L	0.00362	0.0880	5.00	33.4	33.1	5.18	4.25 to 5.75	94.0	70.0 to 130	0.902	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD13838	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0974	0.0955	0.0993	0.0850 to 0.115	97.4	70.0 to 130	1.97	20.0
BD13838	Total Organic Carbon	mg/L	0.156	1.00	10.0	11.5	9.83	9.87		115	80.0 to 120	15.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 12:39

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-20

Laboratory ID Number: BD13838

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13838	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.18	-0.033	2.01	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 7/25/23 15:59
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13839

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:10		1.015	0.0943	mg/L	0.030000	0.1015	J
* Calcium, Total	7/28/23 06:39	8/4/23 11:51		10.15	47.5	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 14:10		1.015	0.0207	mg/L	0.008120	0.0406	J
* Lithium, Total	7/28/23 06:39	8/3/23 14:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 14:10		1.015	31.0	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:10		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:10		1	9.63	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:10		1.015	4.50	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 14:10		1.015	6.36	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:39		1.015	0.0962	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:36		10.15	49.2	mg/L	0.70035	4.06	RA
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 14:39		1.015	29.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:39		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:39		1	9.63	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:39		1.015	4.50	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 14:39		1.015	6.20	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 10:35		1.015	0.000137	mg/L	0.000112	0.000203	J
* Aluminum, Total	7/28/23 06:39	7/28/23 10:35		1.015	0.0151	mg/L	0.009135	0.05075	J
* Barium, Total	7/28/23 06:39	7/28/23 10:35		1.015	0.0166	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:35		1.015	0.000835	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:35		1.015	0.00405	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP

Collected: 7/25/23 15:59

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13839

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:35		1.015	0.663	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	0.000134	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	0.0155	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	0.000417	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	0.00238	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	0.645	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:13	7/27/23 15:13		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	242	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	244	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	241	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	1.22	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.55	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-4

Location Code: WMWGASAP
Collected: 7/25/23 15:59
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13839

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 18:38	7/27/23 18:38		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:57	7/28/23 11:57		1	8.49	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:10	7/31/23 10:10		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:15	8/10/23 14:15		1	11.4	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/25/23 15:56	7/25/23 15:56			433.52	uS/cm			FA
pH	7/25/23 15:56	7/25/23 15:56			7.20	SU			FA
Temperature	7/25/23 15:56	7/25/23 15:56			20.26	C			FA
Turbidity	7/25/23 15:56	7/25/23 15:56			2.71	NTU			FA
Sulfide	7/25/23 15:56	7/25/23 15:56			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/25/23 15:59
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BD13839

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13839	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.102	0.103	0.0971	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13839	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.0909	0.0928	0.0927	0.0850 to 0.115	90.9	70.0 to 130	2.07	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13839	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.101	0.0994	0.0994	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13839	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.111	0.111	0.0957	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13839	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0961	0.0997	0.0919	0.0850 to 0.115	96.1	70.0 to 130	3.68	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13839	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	1.10	1.10	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13839	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0956	0.0970	0.0962	0.0850 to 0.115	95.6	70.0 to 130	1.45	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13839	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	57.3	55.7	4.93	4.25 to 5.75	162	70.0 to 130	2.83	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13839	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0956	0.0973	0.0973	0.0850 to 0.115	95.2	70.0 to 130	1.76	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13839	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0964	0.0985	0.0997	0.0850 to 0.115	96.4	70.0 to 130	2.15	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13839	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.199	0.199	0.204	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 15:59

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BD13839

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD13839	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.102	0.0999	0.103	0.0850 to 0.115	102	70.0 to 130	2.08	20.0	
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0	
BD13839	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.204	0.199	0.170 to 0.230	102	70.0 to 130	0.489	20.0	
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0	
BD13839	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	34.3	34.5	4.99	4.25 to 5.75	90.0	70.0 to 130	0.581	20.0	
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0	
BD13839	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0997	0.102	0.100	0.0850 to 0.115	97.3	70.0 to 130	2.28	20.0	
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0	
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0	
BD13839	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.197	0.198	0.199	0.170 to 0.230	98.5	70.0 to 130	0.506	20.0	
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0	
BD13839	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	10.4	10.6	9.79	8.50 to 11.5	97.6	70.0 to 130	1.90	20.0	
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0	
BD13839	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.102	0.101	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD13839	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	5.46	5.46	1.02	0.850 to 1.15	96.0	70.0 to 130	0.00	20.0	
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0	
BD13839	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	11.4	11.3	5.13	4.25 to 5.75	104	70.0 to 130	0.881	20.0	
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0	
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0	
BD13839	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	1.89	20.0	
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0	
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 15:59

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-4

Laboratory ID Number: BD13839

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 7/26/23 10:40
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13840

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:13		1.015	0.464	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 12:01		10.15	48.8	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 14:13		1.015	0.0373	mg/L	0.008120	0.0406	J
* Lithium, Total	7/28/23 06:39	8/3/23 14:13		1.015	0.0655	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/3/23 14:13		1.015	22.6	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:13		1.015	0.0794	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:13		1	11.5	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:13		1.015	5.38	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/4/23 12:01		10.15	46.3	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:55		1.015	0.483	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:52		10.15	44.0	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:55		1.015	0.0610	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:55		1.015	0.0668	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 14:55		1.015	21.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:55		1.015	0.154	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:55		1	10.3	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:55		1.015	4.83	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 14:55		1.015	37.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 10:38		1.015	0.00380	mg/L	0.000112	0.000203	
* Aluminum, Total	7/28/23 06:39	7/28/23 10:38		1.015	0.0142	mg/L	0.009135	0.05075	J
* Barium, Total	7/28/23 06:39	7/28/23 10:38		1.015	0.0538	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:38		1.015	0.000448	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:38		1.015	0.100	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP

Collected: 7/26/23 10:40

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13840

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:38		1.015	3.67	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	0.0106	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	0.00439	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	0.0515	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	0.0770	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	3.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	8/23/23 09:15	8/23/23 09:45		1.015	0.00105	mg/L	0.000508	0.001015	
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:15	7/27/23 15:15		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	126	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	372	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	125	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.56	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-32V

Location Code: WMWGASAP
Collected: 7/26/23 10:40
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13840

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 18:56	7/27/23 18:56		1	1.45	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:11	7/28/23 12:11		2	26.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:11	7/31/23 10:11		1	0.134	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:29	8/10/23 14:29		8	140	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/26/23 10:37	7/26/23 10:37			600.28	uS/cm			FA
pH	7/26/23 10:37	7/26/23 10:37			7.45	SU			FA
Temperature	7/26/23 10:37	7/26/23 10:37			24.20	C			FA
Turbidity	7/26/23 10:37	7/26/23 10:37			3.92	NTU			FA
Sulfide	7/26/23 10:37	7/26/23 10:37			1.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/26/23 10:40

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BD13840

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 10:40
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BD13840

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD14402	Selenium, Dissolved	mg/L	0.0000524	0.00100	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/26/23 10:40

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-32V

Laboratory ID Number: BD13840

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 7/26/23 12:00
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13841

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:16		1.015	0.355	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/3/23 14:16		1.015	39.5	mg/L	0.070035	0.406	
* Iron, Total	7/28/23 06:39	8/3/23 14:16		1.015	0.0955	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 14:16		1.015	0.0383	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/3/23 14:16		1.015	20.0	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:16		1.015	0.121	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:16		1	7.13	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:16		1.015	3.33	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 14:16		1.015	20.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 14:58		1.015	0.359	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/1/23 14:58		1.015	38.3	mg/L	0.070035	0.406	
* Iron, Dissolved	7/27/23 13:35	8/1/23 14:58		1.015	0.0855	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 14:58		1.015	0.0377	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 14:58		1.015	19.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 14:58		1.015	0.123	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 14:58		1	7.19	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 14:58		1.015	3.36	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 14:58		1.015	20.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 10:42		1.015	0.000370	mg/L	0.000112	0.000203	
* Aluminum, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/28/23 06:39	7/28/23 10:42		1.015	0.0356	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:42		1.015	0.00418	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 7/26/23 12:00
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13841

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:42		1.015	2.10	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	0.000391	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	0.0348	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	0.00420	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	2.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	0.00199	mg/L	0.000508	0.001015	
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:17	7/27/23 15:17		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	121	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	255	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	120	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	1.05	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.45	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-37V

Location Code: WMWGASAP
Collected: 7/26/23 12:00
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13841

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 19:13	7/27/23 19:13		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 11:59	7/28/23 11:59		1	13.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:12	7/31/23 10:12		1	0.146	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:18	8/10/23 15:18		3	81.0	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/26/23 11:56	7/26/23 11:56			414.50	uS/cm			FA
pH	7/26/23 11:56	7/26/23 11:56			8.06	SU			FA
Temperature	7/26/23 11:56	7/26/23 11:56			24.80	C			FA
Turbidity	7/26/23 11:56	7/26/23 11:56			3.9	NTU			FA
Sulfide	7/26/23 11:56	7/26/23 11:56			1.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 12:00
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BD13841

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/26/23 12:00

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BD13841

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/26/23 12:00

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-37V

Laboratory ID Number: BD13841

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 7/24/23 13:17
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13842

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:19		1.015	0.113	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 12:04		10.15	50.3	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 14:19		1.015	0.337	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 14:19		1.015	0.0567	mg/L	0.007105	0.01999956	
* Magnesium, Total	7/28/23 06:39	8/3/23 14:19		1.015	25.2	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:19		1.015	0.0399	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:19		1	12.0	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:19		1.015	5.63	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 14:19		1.015	31.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:01		1.015	0.115	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 14:56		10.15	50.7	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:01		1.015	0.0299	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:01		1.015	0.0554	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:01		1.015	24.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:01		1	11.7	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:01		1.015	5.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:01		1.015	30.2	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:46		1.015	0.0290	mg/L	0.000710	0.001015	
* Arsenic, Total	7/28/23 06:39	7/28/23 10:46		1.015	0.0108	mg/L	0.000112	0.000203	
* Aluminum, Total	7/28/23 06:39	7/28/23 10:46		1.015	0.0268	mg/L	0.009135	0.05075	J
* Barium, Total	7/28/23 06:39	7/28/23 10:46		1.015	0.0514	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:46		1.015	0.000305	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:46		1.015	0.000133	mg/L	0.000068	0.000203	J
* Lead, Total	7/28/23 06:39	7/28/23 10:46		1.015	0.0000856	mg/L	0.000068	0.000203	J
* Manganese, Total	7/28/23 06:39	7/28/23 10:46		1.015	0.0862	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP

Collected: 7/24/23 13:17

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13842

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:46		1.015	4.23	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	0.0144	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	0.0143	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	0.00689	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	0.0464	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	0.0819	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	4.35	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	0.00133	mg/L	0.000508	0.001015	
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:19	7/27/23 15:19		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	261	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	302	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	259	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	1.77	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.55	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-33V

Location Code: WMWGASAP
Collected: 7/24/23 13:17
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13842

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 19:26	7/27/23 19:26		1	3.82	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:00	7/28/23 12:00		1	19.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:13	7/31/23 10:13		1	0.148	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:18	8/10/23 14:18		1	26.4	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/24/23 13:14	7/24/23 13:14			571.94	uS/cm			FA
pH	7/24/23 13:14	7/24/23 13:14			7.56	SU			FA
Temperature	7/24/23 13:14	7/24/23 13:14			25.31	C			FA
Turbidity	7/24/23 13:14	7/24/23 13:14			7.75	NTU			FA
Sulfide	7/24/23 13:14	7/24/23 13:14			7	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/24/23 13:17
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BD13842

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 13:17

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BD13842

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 13:17

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-33V

Laboratory ID Number: BD13842

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 7/24/23 15:25
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13843

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:22		1.015	0.121	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/3/23 14:22		1.015	23.2	mg/L	0.070035	0.406	
* Iron, Total	7/28/23 06:39	8/3/23 14:22		1.015	0.0617	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 14:22		1.015	0.0134	mg/L	0.007105	0.01999956	J
* Magnesium, Total	7/28/23 06:39	8/3/23 14:22		1.015	20.3	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:22		1.015	0.0393	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:22		1	7.19	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:22		1.015	3.36	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/4/23 12:07		10.15	120	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:04		1.015	0.121	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/1/23 15:04		1.015	23.2	mg/L	0.070035	0.406	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:04		1.015	0.0475	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:04		1.015	0.0124	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:04		1.015	19.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:04		1.015	0.0346	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:04		1	7.28	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:04		1.015	3.40	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/2/23 14:59		10.15	120	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/28/23 06:39	7/28/23 10:49		1.015	0.0154	mg/L	0.009135	0.05075	J
* Arsenic, Total	7/28/23 06:39	7/28/23 10:49		1.015	0.00343	mg/L	0.000112	0.000203	
* Barium, Total	7/28/23 06:39	7/28/23 10:49		1.015	0.0780	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/28/23 06:39	7/28/23 10:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 10:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:49		1.015	0.0340	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP

Collected: 7/24/23 15:25

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13843

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:49		1.015	35.1	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	0.00286	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	0.0778	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	0.0331	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	35.3	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	0.000886	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	7/27/23 13:35	7/27/23 18:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:21	7/27/23 15:21		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/1/23 09:35	8/1/23 13:15		1	209	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/27/23 13:05	7/31/23 09:59		1	512	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	206	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/1/23 09:35	8/1/23 13:15		1	2.80	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/1/23 09:35	8/1/23 13:15		1	4.53	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-36V

Location Code: WMWGASAP
Collected: 7/24/23 15:25
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13843

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 19:43	7/27/23 19:43		1	5.20	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:12	7/28/23 12:12		20	88.8	mg/L	10.00	20	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:15	7/31/23 10:15		1	0.420	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:32	8/10/23 14:32		5	121	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/24/23 15:21	7/24/23 15:21			947.26	uS/cm			FA
pH	7/24/23 15:21	7/24/23 15:21			7.93	SU			FA
Temperature	7/24/23 15:21	7/24/23 15:21			23.97	C			FA
Turbidity	7/24/23 15:21	7/24/23 15:21			3.24	NTU			FA
Sulfide	7/24/23 15:21	7/24/23 15:21			2	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 15:25

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BD13843

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 15:25

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BD13843

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/24/23 15:25

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-36V

Laboratory ID Number: BD13843

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13843	Alkalinity	mg CaCO3/L					210	51.2	45.0 to 55.0			0.477	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13843	Solids, Dissolved	mg/L	0.0000	25.0			518	50.0	40.0 to 60.0			1.17	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP
Collected: 7/25/23 10:10
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13844

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:25		1.015	0.880	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 12:10		10.15	56.1	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 14:25		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/28/23 06:39	8/3/23 14:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 14:25		1.015	29.1	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:25		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:25		1	7.32	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:25		1.015	3.42	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 14:25		1.015	16.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:07		1.015	0.883	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 15:02		10.15	62.9	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:07		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:07		1.015	28.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:07		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:07		1	7.32	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:07		1.015	3.42	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:07		1.015	16.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:53		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 10:53		1.015	0.000135	mg/L	0.000112	0.000203	J
* Aluminum, Total	7/28/23 06:39	7/28/23 10:53		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/28/23 06:39	7/28/23 10:53		1.015	0.0178	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:53		1.015	0.000446	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:53		1.015	0.000830	mg/L	0.000152	0.001015	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP

Collected: 7/25/23 10:10

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13844

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:53		1.015	1.04	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	0.000118	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	0.0169	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	0.000218	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	0.000245	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	1.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	0.000897	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:22	7/27/23 15:22		1	1.60	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	184	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	327	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	183	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	1.14	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.55	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-26

Location Code: WMWGASAP

Collected: 7/25/23 10:10

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13844

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 20:00	7/27/23 20:00	1		Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:03	7/28/23 12:03	1		14.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:16	7/31/23 10:16	1		Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:33	8/10/23 14:33	2		76.4	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/25/23 10:06	7/25/23 10:06			538.04	uS/cm			FA
pH	7/25/23 10:06	7/25/23 10:06			7.55	SU			FA
Temperature	7/25/23 10:06	7/25/23 10:06			18.13	C			FA
Turbidity	7/25/23 10:06	7/25/23 10:06			2.06	NTU			FA
Sulfide	7/25/23 10:06	7/25/23 10:06			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/25/23 10:10
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BD13844

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 10:10

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BD13844

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/25/23 10:10
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-26

Laboratory ID Number: BD13844

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 7/25/23 11:38
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13845

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:28		1.015	0.143	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/3/23 14:28		1.015	28.1	mg/L	0.070035	0.406	
* Iron, Total	7/28/23 06:39	8/3/23 14:28		1.015	0.0126	mg/L	0.008120	0.0406	J
* Lithium, Total	7/28/23 06:39	8/3/23 14:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 14:28		1.015	15.1	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:28		1.015	0.00725	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:28		1	7.28	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:28		1.015	3.40	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 14:28		1.015	7.35	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:10		1.015	0.143	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/1/23 15:10		1.015	27.2	mg/L	0.070035	0.406	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:10		1.015	0.00945	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:10		1.015	14.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:10		1.015	0.00737	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:10		1	7.30	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:10		1.015	3.41	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:10		1.015	7.49	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 10:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/28/23 06:39	7/28/23 10:57		1.015	0.0304	mg/L	0.009135	0.05075	J
* Arsenic, Total	7/28/23 06:39	7/28/23 10:57		1.015	0.000163	mg/L	0.000112	0.000203	J
* Barium, Total	7/28/23 06:39	7/28/23 10:57		1.015	0.0158	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 10:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 10:57		1.015	0.000400	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 10:57		1.015	0.000548	mg/L	0.000152	0.001015	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP

Collected: 7/25/23 11:38

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13845

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 10:57		1.015	0.697	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 10:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 10:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	0.000148	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	0.0144	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	0.664	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	0.000761	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:24	7/27/23 15:24		1	1.06	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	116	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	155	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	116	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.50	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27

Location Code: WMWGASAP
Collected: 7/25/23 11:38
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13845

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 20:14	7/27/23 20:14		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:04	7/28/23 12:04		1	12.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:17	7/31/23 10:17		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:22	8/10/23 14:22		1	10.7	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/25/23 11:34	7/25/23 11:34			270.99	uS/cm			FA
pH	7/25/23 11:34	7/25/23 11:34			7.06	SU			FA
Temperature	7/25/23 11:34	7/25/23 11:34			20.55	C			FA
Turbidity	7/25/23 11:34	7/25/23 11:34			2.23	NTU			FA
Sulfide	7/25/23 11:34	7/25/23 11:34			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:38

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BD13845

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/25/23 11:38
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BD13845

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:38

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-27

Laboratory ID Number: BD13845

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP
Collected: 7/25/23 11:38
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13846

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:32		1.015	0.141	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/3/23 14:32		1.015	28.4	mg/L	0.070035	0.406	
* Iron, Total	7/28/23 06:39	8/3/23 14:32		1.015	0.0125	mg/L	0.008120	0.0406	J
* Lithium, Total	7/28/23 06:39	8/3/23 14:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 14:32		1.015	15.1	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:32		1.015	0.00717	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:32		1	7.34	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:32		1.015	3.43	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 14:32		1.015	7.24	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:13		1.015	0.141	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/1/23 15:13		1.015	27.8	mg/L	0.070035	0.406	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:13		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:13		1.015	14.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:13		1.015	0.00730	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:13		1	7.28	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:13		1.015	3.40	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:13		1.015	7.33	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 11:00		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 11:00		1.015	0.000117	mg/L	0.000112	0.000203	J
* Aluminum, Total	7/28/23 06:39	7/28/23 11:00		1.015	0.0307	mg/L	0.009135	0.05075	J
* Barium, Total	7/28/23 06:39	7/28/23 11:00		1.015	0.0156	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 11:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 11:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 11:00		1.015	0.000305	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 11:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 11:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 11:00		1.015	0.000653	mg/L	0.000152	0.001015	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP

Collected: 7/25/23 11:38

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13846

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 11:00		1.015	0.676	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 11:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 11:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	0.000131	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	0.0148	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	0.000221	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	0.668	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	0.000710	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:26	7/27/23 15:26		1	1.17	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	113	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	154	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	113	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.47	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-27 Dup

Location Code: WMWGASAP
Collected: 7/25/23 11:38
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13846

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 20:28	7/27/23 20:28		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:05	7/28/23 12:05		1	12.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:18	7/31/23 10:18		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:23	8/10/23 14:23		1	10.7	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/25/23 11:34	7/25/23 11:34			270.99	uS/cm			FA
pH	7/25/23 11:34	7/25/23 11:34			7.06	SU			FA
Temperature	7/25/23 11:34	7/25/23 11:34			20.55	C			FA
Turbidity	7/25/23 11:34	7/25/23 11:34			2.23	NTU			FA
Sulfide	7/25/23 11:34	7/25/23 11:34			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:38

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BD13846

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:38

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BD13846

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 11:38

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-27 Dup

Laboratory ID Number: BD13846

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP
Collected: 7/25/23 13:05
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13847

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:35		1.015	0.253	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 12:13		10.15	40.1	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 14:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/28/23 06:39	8/3/23 14:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 14:35		1.015	23.4	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:35		1.015	0.00780	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:35		1	5.82	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:35		1.015	2.72	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 14:35		1.015	8.74	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:17		1.015	0.268	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 15:05		10.15	44.1	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:17		1.015	22.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:17		1.015	0.00814	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:17		1	5.91	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:17		1.015	2.76	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:17		1.015	8.75	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 11:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 11:04		1.015	0.000130	mg/L	0.000112	0.000203	J
* Aluminum, Total	7/28/23 06:39	7/28/23 11:04		1.015	0.0134	mg/L	0.009135	0.05075	J
* Barium, Total	7/28/23 06:39	7/28/23 11:04		1.015	0.0176	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 11:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 11:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/28/23 06:39	7/28/23 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 11:04		1.015	0.00536	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP

Collected: 7/25/23 13:05

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13847

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 11:04		1.015	0.412	mg/L	0.169505	0.5075	J
* Selenium, Total	7/28/23 06:39	7/28/23 11:04		1.015	0.000684	mg/L	0.000508	0.001015	J
* Thallium, Total	7/28/23 06:39	7/28/23 11:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	0.000120	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	0.0179	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	0.00424	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	0.428	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	0.00102	mg/L	0.000508	0.001015	
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:28	7/27/23 15:28		1	1.36	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	164	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	225	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	163	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	0.545	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.52	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23S

Location Code: WMWGASAP

Collected: 7/25/23 13:05

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13847

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 20:43	7/27/23 20:43		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:06	7/28/23 12:06		1	16.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:19	7/31/23 10:19		1	0.0709	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:24	8/10/23 14:24		1	24.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/25/23 13:02	7/25/23 13:02			402.61	uS/cm			FA
pH	7/25/23 13:02	7/25/23 13:02			6.76	SU			FA
Temperature	7/25/23 13:02	7/25/23 13:02			20.41	C			FA
Turbidity	7/25/23 13:02	7/25/23 13:02			1.78	NTU			FA
Sulfide	7/25/23 13:02	7/25/23 13:02			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 13:05

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BD13847

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13847	Fluoride	mg/L	0.0182	0.125	2.50	2.72	2.74	2.67	2.25 to 2.75	106	80.0 to 120	0.733	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 13:05

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BD13847

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD13847	Sulfate	mg/L	0.0629	2.0	20.0	44.2	44.5	20.3	18.0 to 22.0	96.5	80.0 to 120	0.676	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 13:05

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-23S

Laboratory ID Number: BD13847

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 7/25/23 14:25
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13848

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 14:38		1.015	1.31	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/3/23 14:38		1.015	37.8	mg/L	0.070035	0.406	
* Iron, Total	7/28/23 06:39	8/3/23 14:38		1.015	0.0285	mg/L	0.008120	0.0406	J
* Lithium, Total	7/28/23 06:39	8/3/23 14:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/4/23 12:16		10.15	39.5	mg/L	0.21315	4.06	
* Molybdenum, Total	7/28/23 06:39	8/3/23 14:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 14:38		1	10.6	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 14:38		1.015	4.97	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 14:38		1.015	22.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:20		1.015	1.34	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/1/23 15:20		1.015	34.7	mg/L	0.070035	0.406	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:20		1.015	0.0270	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:20		1.015	37.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:20		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:20		1	10.4	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:20		1.015	4.84	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:20		1.015	24.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/28/23 06:39	7/28/23 11:07		1.015	0.00100	mg/L	0.000112	0.000203	
* Barium, Total	7/28/23 06:39	7/28/23 11:07		1.015	0.0501	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 11:07		1.015	0.00868	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP
Collected: 7/25/23 14:25
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13848

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 11:07		1.015	3.42	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 11:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	0.00116	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	0.0458	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	0.00803	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	3.88	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 23:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:30	7/27/23 15:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	177	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	323	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	175	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	2.07	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.50	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-23D

Location Code: WMWGASAP

Collected: 7/25/23 14:25

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13848

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 21:00	7/27/23 21:00		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:14	7/28/23 12:14		20	41.6	mg/L	10.00	20	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:32	7/31/23 10:32		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:58	8/10/23 14:58		3	57.0	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/25/23 14:22	7/25/23 14:22			578.86	uS/cm			FA
pH	7/25/23 14:22	7/25/23 14:22			7.81	SU			FA
Temperature	7/25/23 14:22	7/25/23 14:22			22.28	C			FA
Turbidity	7/25/23 14:22	7/25/23 14:22			2.09	NTU			FA
Sulfide	7/25/23 14:22	7/25/23 14:22			2	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/25/23 14:25
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BD13848

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13848	Aluminum, Total	mg/L	0.000656	0.0198	0.100	0.108	0.106	0.104	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13848	Antimony, Total	mg/L	0.000359	0.00100	0.100	0.0967	0.0983	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.64	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13848	Arsenic, Total	mg/L	-0.0000007	0.000200	0.100	0.102	0.100	0.102	0.0850 to 0.115	101	70.0 to 130	1.98	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13848	Barium, Total	mg/L	0.0000582	0.00100	0.100	0.144	0.144	0.0963	0.0850 to 0.115	93.9	70.0 to 130	0.00	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13848	Beryllium, Total	mg/L	-0.0000261	0.000880	0.100	0.0967	0.0971	0.0970	0.0850 to 0.115	96.7	70.0 to 130	0.413	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13848	Boron, Total	mg/L	0.000964	0.0650	1.00	2.31	2.32	1.01	0.850 to 1.15	100	70.0 to 130	0.432	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13848	Cadmium, Total	mg/L	-0.0000050	0.000147	0.100	0.0990	0.0974	0.101	0.0850 to 0.115	99.0	70.0 to 130	1.63	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13848	Calcium, Total	mg/L	0.000592	0.152	5.00	43.7	44.3	4.94	4.25 to 5.75	118	70.0 to 130	1.36	20.0
BD13848	Chloride	mg/L	0.102	1.00	200	246	241	9.88	9.00 to 11.0	102	80.0 to 120	2.05	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13848	Chromium, Total	mg/L	-0.0000207	0.000440	0.100	0.0966	0.0975	0.0989	0.0850 to 0.115	96.6	70.0 to 130	0.927	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13848	Cobalt, Total	mg/L	0.0000028	0.000147	0.100	0.0983	0.0980	0.0999	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13852	Fluoride	mg/L	0.0168	0.125	2.50	2.78	2.80	2.67	2.25 to 2.75	107	80.0 to 120	0.717	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13848	Iron, Total	mg/L	-0.000528	0.0176	0.2	0.227	0.239	0.201	0.170 to 0.230	99.2	70.0 to 130	5.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 14:25

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BD13848

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13848	Lead, Total	mg/L	0.0000007	0.000147	0.100	0.0983	0.0978	0.101	0.0850 to 0.115	98.3	70.0 to 130	0.510	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13848	Lithium, Total	mg/L	0.000019	0.0154	0.200	0.207	0.206	0.203	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13848	Magnesium, Total	mg/L	0.00144	0.0462	5.00	43.8	45.0	5.14	4.25 to 5.75	86.0	70.0 to 130	2.70	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13848	Manganese, Total	mg/L	0.0000093	0.00033	0.100	0.109	0.108	0.102	0.0850 to 0.115	100	70.0 to 130	0.922	20.0
BD13848	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00401	0.00402	0.00397	0.00340 to 0.00460	100	70.0 to 130	0.249	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13848	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.201	0.202	0.198	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13848	Potassium, Total	mg/L	0.0215	0.367	10.0	13.2	13.2	10.3	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13848	Selenium, Total	mg/L	0.000198	0.00100	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13848	Silicon, Total	mg/L	-0.000042	0.0440	1.00	5.95	5.95	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13848	Sodium, Total	mg/L	0.00362	0.0880	5.00	27.3	27.3	5.18	4.25 to 5.75	90.0	70.0 to 130	0.00	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13848	Thallium, Total	mg/L	0.0000027	0.000147	0.100	0.0994	0.0984	0.0993	0.0850 to 0.115	99.4	70.0 to 130	1.01	20.0
BD13848	Total Organic Carbon	mg/L	0.123	1.00	10.0	9.13	10.9	9.46		91.3	80.0 to 120	17.7	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/25/23 14:25

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-23D

Laboratory ID Number: BD13848

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13848	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.00	-0.031	2.10	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 7/26/23 09:45
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13849

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 15:00		1.015	1.16	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 12:26		10.15	59.1	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 15:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/28/23 06:39	8/3/23 15:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 15:00		1.015	21.8	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 15:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 15:00		1	6.76	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 15:00		1.015	3.16	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 15:00		1.015	9.26	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:23		1.015	1.15	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 15:08		10.15	65.0	mg/L	0.70035	4.06	RA
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:23		1.015	21.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:23		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:23		1	6.72	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:23		1.015	3.14	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:23		1.015	9.49	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 11:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 11:36		1.015	0.000154	mg/L	0.000112	0.000203	J
* Aluminum, Total	7/28/23 06:39	7/28/23 11:36		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/28/23 06:39	7/28/23 11:36		1.015	0.0170	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 11:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 11:36		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	7/28/23 06:39	7/28/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 11:36		1.015	0.00109	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 7/26/23 09:45
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13849

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 11:36		1.015	2.86	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 11:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	0.000159	mg/L	0.000112	0.000203	J
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	0.0175	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	0.000346	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	2.86	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 21:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:38	7/27/23 15:38		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	153	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	312	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	151	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	1.46	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.52	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-7

Location Code: WMWGASAP
Collected: 7/26/23 09:45
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13849

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 22:23	7/27/23 22:23		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:27	7/28/23 12:27		1	11.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:34	7/31/23 10:34		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:00	8/10/23 15:00		5	91.8	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/26/23 09:42	7/26/23 09:42			499.63	uS/cm			FA
pH	7/26/23 09:42	7/26/23 09:42			7.35	SU			FA
Temperature	7/26/23 09:42	7/26/23 09:42			20.73	C			FA
Turbidity	7/26/23 09:42	7/26/23 09:42			1.82	NTU			FA
Sulfide	7/26/23 09:42	7/26/23 09:42			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 09:45
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BD13849

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD13849	Aluminum, Dissolved	mg/L	-0.000479	0.0198	0.100	0.100	0.103	0.0971	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD13852	Aluminum, Total	mg/L	0.000948	0.0198	0.100	0.107	0.109	0.104	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD13849	Antimony, Dissolved	mg/L	0.000470	0.00100	0.100	0.102	0.101	0.0927	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD13852	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.0964	0.0960	0.0989	0.0850 to 0.115	96.4	70.0 to 130	0.416	20.0
BD13849	Arsenic, Dissolved	mg/L	0.0000023	0.000200	0.100	0.0999	0.101	0.0994	0.0850 to 0.115	99.7	70.0 to 130	1.10	20.0
BD13852	Arsenic, Total	mg/L	0.0000046	0.000200	0.100	0.101	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD13849	Barium, Dissolved	mg/L	-0.0000223	0.00100	0.100	0.115	0.114	0.0957	0.0850 to 0.115	97.5	70.0 to 130	0.873	20.0
BD13852	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.148	0.153	0.0981	0.0850 to 0.115	90.8	70.0 to 130	3.32	20.0
BD13849	Beryllium, Dissolved	mg/L	0.0000339	0.000880	0.100	0.0969	0.0911	0.0919	0.0850 to 0.115	96.9	70.0 to 130	6.17	20.0
BD13852	Beryllium, Total	mg/L	-0.0000404	0.000880	0.100	0.0980	0.0954	0.0971	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BD13849	Boron, Dissolved	mg/L	-0.00211	0.0650	1.00	2.17	2.18	0.999	0.850 to 1.15	102	70.0 to 130	0.460	20.0
BD13852	Boron, Total	mg/L	0.00120	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD13849	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0975	0.0962	0.0962	0.0850 to 0.115	97.5	70.0 to 130	1.34	20.0
BD13852	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0996	0.0980	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.62	20.0
BD13849	Calcium, Dissolved	mg/L	-0.00427	0.152	5.00	72.7	63.9	4.93	4.25 to 5.75	154	70.0 to 130	12.9	20.0
BD13852	Calcium, Total	mg/L	0.00618	0.152	5.00	56.8	57.5	4.96	4.25 to 5.75	60.0	70.0 to 130	1.22	20.0
BD13852	Chloride	mg/L	0.088	1.00	10.0	14.7	14.8	9.89	9.00 to 11.0	103	80.0 to 120	0.678	20.0
BD13849	Chromium, Dissolved	mg/L	-0.000236	0.000440	0.100	0.0954	0.0958	0.0973	0.0850 to 0.115	95.4	70.0 to 130	0.418	20.0
BD13852	Chromium, Total	mg/L	-0.0000033	0.000440	0.100	0.0962	0.0971	0.0999	0.0850 to 0.115	96.2	70.0 to 130	0.931	20.0
BD13849	Cobalt, Dissolved	mg/L	-0.0000007	0.000147	0.100	0.0963	0.0981	0.0997	0.0850 to 0.115	96.3	70.0 to 130	1.85	20.0
BD13852	Cobalt, Total	mg/L	0.0000035	0.000147	0.100	0.0983	0.0980	0.103	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13852	Fluoride	mg/L	0.0168	0.125	2.50	2.78	2.80	2.67	2.25 to 2.75	107	80.0 to 120	0.717	20.0
BD13849	Iron, Dissolved	mg/L	0.00396	0.0176	0.2	0.203	0.199	0.204	0.170 to 0.230	102	70.0 to 130	1.99	20.0
BD13852	Iron, Total	mg/L	0.00421	0.0176	0.2	0.710	0.713	0.195	0.170 to 0.230	97.5	70.0 to 130	0.422	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 09:45
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BD13849

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13849	Lead, Dissolved	mg/L	0.0000048	0.000147	0.100	0.103	0.101	0.103	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13852	Lead, Total	mg/L	0.0000180	0.000147	0.100	0.0972	0.0976	0.101	0.0850 to 0.115	97.1	70.0 to 130	0.411	20.0
BD13849	Lithium, Dissolved	mg/L	-0.000674	0.0154	0.200	0.205	0.205	0.199	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD13852	Lithium, Total	mg/L	0.000861	0.0154	0.200	0.205	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD13849	Magnesium, Dissolved	mg/L	-0.00158	0.0462	5.00	25.9	26.3	4.99	4.25 to 5.75	92.0	70.0 to 130	1.53	20.0
BD13852	Magnesium, Total	mg/L	-0.00656	0.0462	5.00	26.6	26.3	5.08	4.25 to 5.75	100	70.0 to 130	1.13	20.0
BD13849	Manganese, Dissolved	mg/L	0.0000113	0.00033	0.100	0.0977	0.0992	0.100	0.0850 to 0.115	97.4	70.0 to 130	1.52	20.0
BD13852	Manganese, Total	mg/L	0.0000680	0.00033	0.100	0.156	0.154	0.103	0.0850 to 0.115	101	70.0 to 130	1.29	20.0
BD13852	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00399	0.00401	0.00401	0.00340 to 0.00460	99.8	70.0 to 130	0.500	20.0
BD13849	Molybdenum, Dissolved	mg/L	0.000075	0.0100	0.2	0.201	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD13852	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.199	0.201	0.196	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD13849	Potassium, Dissolved	mg/L	-0.00863	0.367	10.0	12.6	12.7	9.79	8.50 to 11.5	97.4	70.0 to 130	0.791	20.0
BD13852	Potassium, Total	mg/L	0.00658	0.367	10.0	10.5	10.5	10.2	8.50 to 11.5	99.9	70.0 to 130	0.00	20.0
BD13849	Selenium, Dissolved	mg/L	0.000105	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13852	Selenium, Total	mg/L	0.0000784	0.00100	0.100	0.0997	0.103	0.105	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD13849	Silicon, Dissolved	mg/L	0.000389	0.0440	1.00	4.16	4.16	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD13852	Silicon, Total	mg/L	0.000226	0.0440	1.00	5.56	5.58	1.01	0.850 to 1.15	104	70.0 to 130	0.359	20.0
BD13849	Sodium, Dissolved	mg/L	0.00271	0.0880	5.00	14.5	14.6	5.13	4.25 to 5.75	100	70.0 to 130	0.687	20.0
BD13852	Sodium, Total	mg/L	0.00228	0.0880	5.00	29.3	29.2	5.06	4.25 to 5.75	94.0	70.0 to 130	0.342	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13849	Thallium, Dissolved	mg/L	-0.0000030	0.000147	0.100	0.105	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD13852	Thallium, Total	mg/L	0.0000050	0.000147	0.100	0.0982	0.0976	0.0988	0.0850 to 0.115	98.2	70.0 to 130	0.613	20.0
BD13852	Total Organic Carbon	mg/L	0.136	1.00	10.0	11.0	11.1	9.35		110	80.0 to 120	0.905	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 09:45
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-7

Laboratory ID Number: BD13849

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD13852	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	1.98	-0.052	2.08	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 7/26/23 11:00
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13850

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 15:03		1.015	1.41	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 12:29		10.15	61.8	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 15:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	7/28/23 06:39	8/3/23 15:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 15:03		1.015	26.3	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 15:03		1.015	0.00616	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 15:03		1	6.31	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 15:03		1.015	2.95	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 15:03		1.015	14.2	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:45		1.015	1.41	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 15:18		10.15	63.3	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:45		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:45		1.015	25.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:45		1.015	0.00562	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:45		1	6.25	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:45		1.015	2.92	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:45		1.015	14.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	7/28/23 06:39	7/28/23 11:40		1.015	0.0186	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 11:40		1.015	0.000974	mg/L	0.000152	0.001015	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP

Collected: 7/26/23 11:00

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13850

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 11:40		1.015	2.31	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	0.0186	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	0.000946	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	2.42	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 21:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:39	7/27/23 15:39		1	1.78	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/4/23 09:45	8/4/23 14:05		1	174	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	343	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	172	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/4/23 09:45	8/4/23 14:05		1	1.62	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/4/23 09:45	8/4/23 14:05		1	4.51	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-6

Location Code: WMWGASAP
Collected: 7/26/23 11:00
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13850

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 22:39	7/27/23 22:39		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:28	7/28/23 12:28		1	14.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:35	7/31/23 10:35		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:01	8/10/23 15:01		5	93.9	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/26/23 10:58	7/26/23 10:58			554.19	uS/cm			FA
pH	7/26/23 10:58	7/26/23 10:58			7.05	SU			FA
Temperature	7/26/23 10:58	7/26/23 10:58			19.47	C			FA
Turbidity	7/26/23 10:58	7/26/23 10:58			1.46	NTU			FA
Sulfide	7/26/23 10:58	7/26/23 10:58			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/26/23 11:00

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BD13850

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13852	Aluminum, Dissolved	mg/L	-0.000370	0.0198	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13852	Aluminum, Total	mg/L	0.000948	0.0198	0.100	0.107	0.109	0.104	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD13852	Antimony, Dissolved	mg/L	0.000348	0.00100	0.100	0.0949	0.0938	0.0948	0.0850 to 0.115	94.9	70.0 to 130	1.17	20.0
BD13852	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.0964	0.0960	0.0989	0.0850 to 0.115	96.4	70.0 to 130	0.416	20.0
BD13852	Arsenic, Dissolved	mg/L	0.0000182	0.000200	0.100	0.103	0.101	0.0983	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13852	Arsenic, Total	mg/L	0.0000046	0.000200	0.100	0.101	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD13852	Barium, Dissolved	mg/L	-0.0000021	0.00100	0.100	0.173	0.172	0.0987	0.0850 to 0.115	97.9	70.0 to 130	0.580	20.0
BD13852	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.148	0.153	0.0981	0.0850 to 0.115	90.8	70.0 to 130	3.32	20.0
BD13852	Beryllium, Dissolved	mg/L	0.0000114	0.000880	0.100	0.0929	0.0923	0.0980	0.0850 to 0.115	92.9	70.0 to 130	0.648	20.0
BD13852	Beryllium, Total	mg/L	-0.0000404	0.000880	0.100	0.0980	0.0954	0.0971	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BD13852	Boron, Dissolved	mg/L	-0.00176	0.0650	1.00	1.04	1.04	0.998	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13852	Boron, Total	mg/L	0.00120	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD13852	Cadmium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.0999	0.0983	0.0993	0.0850 to 0.115	99.9	70.0 to 130	1.61	20.0
BD13852	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0996	0.0980	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.62	20.0
BD13852	Calcium, Dissolved	mg/L	-0.00708	0.152	5.00	86.4	97.2	4.84	4.25 to 5.75	170	70.0 to 130	11.8	20.0
BD13852	Calcium, Total	mg/L	0.00618	0.152	5.00	56.8	57.5	4.96	4.25 to 5.75	60.0	70.0 to 130	1.22	20.0
BD13852	Chloride	mg/L	0.088	1.00	10.0	14.7	14.8	9.89	9.00 to 11.0	103	80.0 to 120	0.678	20.0
BD13852	Chromium, Dissolved	mg/L	-0.000250	0.000440	0.100	0.0966	0.0955	0.0972	0.0850 to 0.115	96.6	70.0 to 130	1.15	20.0
BD13852	Chromium, Total	mg/L	-0.0000033	0.000440	0.100	0.0962	0.0971	0.0999	0.0850 to 0.115	96.2	70.0 to 130	0.931	20.0
BD13852	Cobalt, Dissolved	mg/L	0.0000013	0.000147	0.100	0.0981	0.0975	0.0998	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BD13852	Cobalt, Total	mg/L	0.0000035	0.000147	0.100	0.0983	0.0980	0.103	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13852	Fluoride	mg/L	0.0168	0.125	2.50	2.78	2.80	2.67	2.25 to 2.75	107	80.0 to 120	0.717	20.0
BD13852	Iron, Dissolved	mg/L	0.00101	0.0176	0.2	0.933	0.932	0.201	0.170 to 0.230	97.0	70.0 to 130	0.107	20.0
BD13852	Iron, Total	mg/L	0.00421	0.0176	0.2	0.710	0.713	0.195	0.170 to 0.230	97.5	70.0 to 130	0.422	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/26/23 11:00

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BD13850

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13852	Lead, Dissolved	mg/L	0.0000070	0.000147	0.100	0.101	0.0975	0.103	0.0850 to 0.115	101	70.0 to 130	3.53	20.0
BD13852	Lead, Total	mg/L	0.0000180	0.000147	0.100	0.0972	0.0976	0.101	0.0850 to 0.115	97.1	70.0 to 130	0.411	20.0
BD13852	Lithium, Dissolved	mg/L	-0.000365	0.0154	0.200	0.209	0.211	0.199	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD13852	Lithium, Total	mg/L	0.000861	0.0154	0.200	0.205	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD13852	Magnesium, Dissolved	mg/L	0.00741	0.0462	5.00	36.0	36.2	4.91	4.25 to 5.75	94.0	70.0 to 130	0.554	20.0
BD13852	Magnesium, Total	mg/L	-0.00656	0.0462	5.00	26.6	26.3	5.08	4.25 to 5.75	100	70.0 to 130	1.13	20.0
BD13852	Manganese, Dissolved	mg/L	0.0000081	0.00033	0.100	0.164	0.161	0.100	0.0850 to 0.115	99.2	70.0 to 130	1.85	20.0
BD13852	Manganese, Total	mg/L	0.0000680	0.00033	0.100	0.156	0.154	0.103	0.0850 to 0.115	101	70.0 to 130	1.29	20.0
BD13852	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00399	0.00401	0.00401	0.00340 to 0.00460	99.8	70.0 to 130	0.500	20.0
BD13852	Molybdenum, Dissolved	mg/L	0.000655	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13852	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.199	0.201	0.196	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD13852	Potassium, Dissolved	mg/L	-0.00949	0.367	10.0	10.4	10.5	10.2	8.50 to 11.5	98.7	70.0 to 130	0.957	20.0
BD13852	Potassium, Total	mg/L	0.00658	0.367	10.0	10.5	10.5	10.2	8.50 to 11.5	99.9	70.0 to 130	0.00	20.0
BD13852	Selenium, Dissolved	mg/L	0.000171	0.00100	0.100	0.105	0.105	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD13852	Selenium, Total	mg/L	0.0000784	0.00100	0.100	0.0997	0.103	0.105	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD13852	Silicon, Dissolved	mg/L	0.000327	0.0440	1.00	6.19	6.18	1.01	0.850 to 1.15	98.0	70.0 to 130	0.162	20.0
BD13852	Silicon, Total	mg/L	0.000226	0.0440	1.00	5.56	5.58	1.01	0.850 to 1.15	104	70.0 to 130	0.359	20.0
BD13852	Sodium, Dissolved	mg/L	0.00496	0.0880	5.00	19.2	19.2	5.07	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BD13852	Sodium, Total	mg/L	0.00228	0.0880	5.00	29.3	29.2	5.06	4.25 to 5.75	94.0	70.0 to 130	0.342	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13852	Thallium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.105	0.102	0.108	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD13852	Thallium, Total	mg/L	0.0000050	0.000147	0.100	0.0982	0.0976	0.0988	0.0850 to 0.115	98.2	70.0 to 130	0.613	20.0
BD13852	Total Organic Carbon	mg/L	0.136	1.00	10.0	11.0	11.1	9.35		110	80.0 to 120	0.905	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 11:00
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-6

Laboratory ID Number: BD13850

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD13850	Alkalinity	mg CaCO3/L					174	51.4	45.0 to 55.0			0.00	10.0
BD13852	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	1.98	-0.052	2.08	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 7/26/23 12:00
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13851

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 15:06		1.015	1.33	mg/L	0.030000	0.1015	
* Calcium, Total	7/28/23 06:39	8/4/23 12:32		10.15	70.1	mg/L	0.70035	4.06	
* Iron, Total	7/28/23 06:39	8/3/23 15:06		1.015	0.137	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 15:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 15:06		1.015	27.8	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 15:06		1.015	0.00956	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 15:06		1	6.31	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 15:06		1.015	2.95	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 15:06		1.015	18.3	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:48		1.015	1.32	mg/L	0.030000	0.1015	
* Calcium, Dissolved	7/27/23 13:35	8/2/23 15:21		10.15	66.1	mg/L	0.70035	4.06	
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:48		1.015	0.128	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:48		1.015	27.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:48		1.015	0.00935	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:48		1	6.31	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:48		1.015	2.95	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:48		1.015	18.4	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 11:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/28/23 06:39	7/28/23 11:44		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/28/23 06:39	7/28/23 11:44		1.015	0.000427	mg/L	0.000112	0.000203	
* Barium, Total	7/28/23 06:39	7/28/23 11:44		1.015	0.0349	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 11:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 11:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/28/23 06:39	7/28/23 11:44		1.015	0.000685	mg/L	0.000068	0.000203	
* Lead, Total	7/28/23 06:39	7/28/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	7/28/23 06:39	7/28/23 11:44		1.015	0.150	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP
Collected: 7/26/23 12:00
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13851

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 11:44		1.015	2.45	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 11:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	0.000411	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	0.0341	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	0.000660	mg/L	0.000068	0.000203	
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	0.143	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	2.29	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 21:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:40	7/27/23 15:40		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	175	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	376	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	174	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	0.839	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.47	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-21

Location Code: WMWGASAP

Collected: 7/26/23 12:00

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13851

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 22:56	7/27/23 22:56		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:37	7/28/23 12:37		2	21.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:36	7/31/23 10:36		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:02	8/10/23 15:02		8	108	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/26/23 11:57	7/26/23 11:57			597.81	uS/cm			FA
pH	7/26/23 11:57	7/26/23 11:57			7.44	SU			FA
Temperature	7/26/23 11:57	7/26/23 11:57			19.37	C			FA
Turbidity	7/26/23 11:57	7/26/23 11:57			1.75	NTU			FA
Sulfide	7/26/23 11:57	7/26/23 11:57			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 12:00
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BD13851

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD13852	Aluminum, Dissolved	mg/L	-0.000370	0.0198	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BD13852	Aluminum, Total	mg/L	0.000948	0.0198	0.100	0.107	0.109	0.104	0.0850 to 0.115	107	70.0 to 130	1.85	20.0	
BD13852	Antimony, Dissolved	mg/L	0.000348	0.00100	0.100	0.0949	0.0938	0.0948	0.0850 to 0.115	94.9	70.0 to 130	1.17	20.0	
BD13852	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.0964	0.0960	0.0989	0.0850 to 0.115	96.4	70.0 to 130	0.416	20.0	
BD13852	Arsenic, Dissolved	mg/L	0.0000182	0.000200	0.100	0.103	0.101	0.0983	0.0850 to 0.115	103	70.0 to 130	1.96	20.0	
BD13852	Arsenic, Total	mg/L	0.0000046	0.000200	0.100	0.101	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD13852	Barium, Dissolved	mg/L	-0.0000021	0.00100	0.100	0.173	0.172	0.0987	0.0850 to 0.115	97.9	70.0 to 130	0.580	20.0	
BD13852	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.148	0.153	0.0981	0.0850 to 0.115	90.8	70.0 to 130	3.32	20.0	
BD13852	Beryllium, Dissolved	mg/L	0.0000114	0.000880	0.100	0.0929	0.0923	0.0980	0.0850 to 0.115	92.9	70.0 to 130	0.648	20.0	
BD13852	Beryllium, Total	mg/L	-0.0000404	0.000880	0.100	0.0980	0.0954	0.0971	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0	
BD13852	Boron, Dissolved	mg/L	-0.00176	0.0650	1.00	1.04	1.04	0.998	0.850 to 1.15	104	70.0 to 130	0.00	20.0	
BD13852	Boron, Total	mg/L	0.00120	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0	
BD13852	Cadmium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.0999	0.0983	0.0993	0.0850 to 0.115	99.9	70.0 to 130	1.61	20.0	
BD13852	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0996	0.0980	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.62	20.0	
BD13852	Calcium, Dissolved	mg/L	-0.00708	0.152	5.00	86.4	97.2	4.84	4.25 to 5.75	170	70.0 to 130	11.8	20.0	
BD13852	Calcium, Total	mg/L	0.00618	0.152	5.00	56.8	57.5	4.96	4.25 to 5.75	60.0	70.0 to 130	1.22	20.0	
BD13852	Chloride	mg/L	0.088	1.00	10.0	14.7	14.8	9.89	9.00 to 11.0	103	80.0 to 120	0.678	20.0	
BD13852	Chromium, Dissolved	mg/L	-0.000250	0.000440	0.100	0.0966	0.0955	0.0972	0.0850 to 0.115	96.6	70.0 to 130	1.15	20.0	
BD13852	Chromium, Total	mg/L	-0.0000033	0.000440	0.100	0.0962	0.0971	0.0999	0.0850 to 0.115	96.2	70.0 to 130	0.931	20.0	
BD13852	Cobalt, Dissolved	mg/L	0.0000013	0.000147	0.100	0.0981	0.0975	0.0998	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0	
BD13852	Cobalt, Total	mg/L	0.0000035	0.000147	0.100	0.0983	0.0980	0.103	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0	
BD13852	Fluoride	mg/L	0.0168	0.125	2.50	2.78	2.80	2.67	2.25 to 2.75	107	80.0 to 120	0.717	20.0	
BD13852	Iron, Dissolved	mg/L	0.00101	0.0176	0.2	0.933	0.932	0.201	0.170 to 0.230	97.0	70.0 to 130	0.107	20.0	
BD13852	Iron, Total	mg/L	0.00421	0.0176	0.2	0.710	0.713	0.195	0.170 to 0.230	97.5	70.0 to 130	0.422	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/26/23 12:00

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BD13851

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13852	Lead, Dissolved	mg/L	0.0000070	0.000147	0.100	0.101	0.0975	0.103	0.0850 to 0.115	101	70.0 to 130	3.53	20.0
BD13852	Lead, Total	mg/L	0.0000180	0.000147	0.100	0.0972	0.0976	0.101	0.0850 to 0.115	97.1	70.0 to 130	0.411	20.0
BD13852	Lithium, Dissolved	mg/L	-0.000365	0.0154	0.200	0.209	0.211	0.199	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD13852	Lithium, Total	mg/L	0.000861	0.0154	0.200	0.205	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD13852	Magnesium, Dissolved	mg/L	0.00741	0.0462	5.00	36.0	36.2	4.91	4.25 to 5.75	94.0	70.0 to 130	0.554	20.0
BD13852	Magnesium, Total	mg/L	-0.00656	0.0462	5.00	26.6	26.3	5.08	4.25 to 5.75	100	70.0 to 130	1.13	20.0
BD13852	Manganese, Dissolved	mg/L	0.0000081	0.00033	0.100	0.164	0.161	0.100	0.0850 to 0.115	99.2	70.0 to 130	1.85	20.0
BD13852	Manganese, Total	mg/L	0.0000680	0.00033	0.100	0.156	0.154	0.103	0.0850 to 0.115	101	70.0 to 130	1.29	20.0
BD13852	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00399	0.00401	0.00401	0.00340 to 0.00460	99.8	70.0 to 130	0.500	20.0
BD13852	Molybdenum, Dissolved	mg/L	0.000655	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13852	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.199	0.201	0.196	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD13852	Potassium, Dissolved	mg/L	-0.00949	0.367	10.0	10.4	10.5	10.2	8.50 to 11.5	98.7	70.0 to 130	0.957	20.0
BD13852	Potassium, Total	mg/L	0.00658	0.367	10.0	10.5	10.5	10.2	8.50 to 11.5	99.9	70.0 to 130	0.00	20.0
BD13852	Selenium, Dissolved	mg/L	0.000171	0.00100	0.100	0.105	0.105	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD13852	Selenium, Total	mg/L	0.0000784	0.00100	0.100	0.0997	0.103	0.105	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD13852	Silicon, Dissolved	mg/L	0.000327	0.0440	1.00	6.19	6.18	1.01	0.850 to 1.15	98.0	70.0 to 130	0.162	20.0
BD13852	Silicon, Total	mg/L	0.000226	0.0440	1.00	5.56	5.58	1.01	0.850 to 1.15	104	70.0 to 130	0.359	20.0
BD13852	Sodium, Dissolved	mg/L	0.00496	0.0880	5.00	19.2	19.2	5.07	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BD13852	Sodium, Total	mg/L	0.00228	0.0880	5.00	29.3	29.2	5.06	4.25 to 5.75	94.0	70.0 to 130	0.342	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13852	Thallium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.105	0.102	0.108	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD13852	Thallium, Total	mg/L	0.0000050	0.000147	0.100	0.0982	0.0976	0.0988	0.0850 to 0.115	98.2	70.0 to 130	0.613	20.0
BD13852	Total Organic Carbon	mg/L	0.136	1.00	10.0	11.0	11.1	9.35		110	80.0 to 120	0.905	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 12:00
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-21

Laboratory ID Number: BD13851

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD13852	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	1.98	-0.052	2.08	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 7/26/23 12:55
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	7/28/23 06:39	8/3/23 15:09		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	7/28/23 06:39	8/4/23 12:35		10.15	53.8	mg/L	0.70035	4.06	RA
* Iron, Total	7/28/23 06:39	8/3/23 15:09		1.015	0.515	mg/L	0.008120	0.0406	
* Lithium, Total	7/28/23 06:39	8/3/23 15:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	7/28/23 06:39	8/3/23 15:09		1.015	21.6	mg/L	0.021315	0.406	
* Molybdenum, Total	7/28/23 06:39	8/3/23 15:09		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	7/28/23 06:39	8/3/23 15:09		1	9.67	mg/L			
* Silicon, Total	7/28/23 06:39	8/3/23 15:09		1.015	4.52	mg/L	0.02030	0.25375	
* Sodium, Total	7/28/23 06:39	8/3/23 15:09		1.015	24.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	7/27/23 13:35	8/1/23 15:51		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	7/27/23 13:35	8/2/23 15:24		10.15	77.9	mg/L	0.70035	4.06	RA
* Iron, Dissolved	7/27/23 13:35	8/1/23 15:51		1.015	0.739	mg/L	0.008120	0.0406	
* Lithium, Dissolved	7/27/23 13:35	8/1/23 15:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	7/27/23 13:35	8/1/23 15:51		1.015	31.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	7/27/23 13:35	8/1/23 15:51		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	7/27/23 13:35	8/1/23 15:51		1	11.1	mg/L			
* Silicon, Dissolved	7/27/23 13:35	8/1/23 15:51		1.015	5.21	mg/L	0.02030	0.25375	
* Sodium, Dissolved	7/27/23 13:35	8/1/23 15:51		1.015	14.0	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	7/28/23 06:39	7/28/23 11:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	7/28/23 06:39	7/28/23 11:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	7/28/23 06:39	7/28/23 11:47		1.015	0.000657	mg/L	0.000112	0.000203	
* Barium, Total	7/28/23 06:39	7/28/23 11:47		1.015	0.0572	mg/L	0.000508	0.001015	
* Beryllium, Total	7/28/23 06:39	7/28/23 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	7/28/23 06:39	7/28/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	7/28/23 06:39	7/28/23 11:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	7/28/23 06:39	7/28/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	7/28/23 06:39	7/28/23 11:47		1.015	0.0000689	mg/L	0.000068	0.000203	J
* Manganese, Total	7/28/23 06:39	7/28/23 11:47		1.015	0.0550	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP

Collected: 7/26/23 12:55

Customer ID:

Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	7/28/23 06:39	7/28/23 11:47		1.015	0.514	mg/L	0.169505	0.5075	
* Selenium, Total	7/28/23 06:39	7/28/23 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	7/28/23 06:39	7/28/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	0.000405	mg/L	0.000112	0.000203	
* Barium, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	0.0751	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	0.0648	mg/L	0.000152	0.001015	
* Potassium, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	0.534	mg/L	0.169505	0.5075	
* Selenium, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	7/27/23 13:35	7/27/23 19:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	7/27/23 17:24	7/27/23 21:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	7/27/23 15:41	7/27/23 15:41		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	204	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	7/28/23 11:08	7/31/23 13:22		1	283	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	203	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	1.02	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.42	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-14

Location Code: WMWGASAP
Collected: 7/26/23 12:55
Customer ID:
Submittal Date: 7/27/23 09:54

Laboratory ID Number: BD13852

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	7/27/23 23:13	7/27/23 23:13		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	7/28/23 12:31	7/28/23 12:31		1	4.43	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	7/31/23 10:37	7/31/23 10:37		1	0.104	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:03	8/10/23 15:03		5	91.9	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/26/23 12:50	7/26/23 12:50			457.86	uS/cm			FA
pH	7/26/23 12:50	7/26/23 12:50			7.36	SU			FA
Temperature	7/26/23 12:50	7/26/23 12:50			22.31	C			FA
Turbidity	7/26/23 12:50	7/26/23 12:50			2.14	NTU			FA
Sulfide	7/26/23 12:50	7/26/23 12:50			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 12:55
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BD13852

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD13852	Aluminum, Dissolved	mg/L	-0.000370	0.0198	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD13852	Aluminum, Total	mg/L	0.000948	0.0198	0.100	0.107	0.109	0.104	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD13852	Antimony, Dissolved	mg/L	0.000348	0.00100	0.100	0.0949	0.0938	0.0948	0.0850 to 0.115	94.9	70.0 to 130	1.17	20.0
BD13852	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.0964	0.0960	0.0989	0.0850 to 0.115	96.4	70.0 to 130	0.416	20.0
BD13852	Arsenic, Dissolved	mg/L	0.0000182	0.000200	0.100	0.103	0.101	0.0983	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD13852	Arsenic, Total	mg/L	0.0000046	0.000200	0.100	0.101	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD13852	Barium, Dissolved	mg/L	-0.0000021	0.00100	0.100	0.173	0.172	0.0987	0.0850 to 0.115	97.9	70.0 to 130	0.580	20.0
BD13852	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.148	0.153	0.0981	0.0850 to 0.115	90.8	70.0 to 130	3.32	20.0
BD13852	Beryllium, Dissolved	mg/L	0.0000114	0.000880	0.100	0.0929	0.0923	0.0980	0.0850 to 0.115	92.9	70.0 to 130	0.648	20.0
BD13852	Beryllium, Total	mg/L	-0.0000404	0.000880	0.100	0.0980	0.0954	0.0971	0.0850 to 0.115	98.0	70.0 to 130	2.69	20.0
BD13852	Boron, Dissolved	mg/L	-0.00176	0.0650	1.00	1.04	1.04	0.998	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD13852	Boron, Total	mg/L	0.00120	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD13852	Cadmium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.0999	0.0983	0.0993	0.0850 to 0.115	99.9	70.0 to 130	1.61	20.0
BD13852	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0996	0.0980	0.101	0.0850 to 0.115	99.6	70.0 to 130	1.62	20.0
BD13852	Calcium, Dissolved	mg/L	-0.00708	0.152	5.00	86.4	97.2	4.84	4.25 to 5.75	170	70.0 to 130	11.8	20.0
BD13852	Calcium, Total	mg/L	0.00618	0.152	5.00	56.8	57.5	4.96	4.25 to 5.75	60.0	70.0 to 130	1.22	20.0
BD13852	Chloride	mg/L	0.088	1.00	10.0	14.7	14.8	9.89	9.00 to 11.0	103	80.0 to 120	0.678	20.0
BD13852	Chromium, Dissolved	mg/L	-0.000250	0.000440	0.100	0.0966	0.0955	0.0972	0.0850 to 0.115	96.6	70.0 to 130	1.15	20.0
BD13852	Chromium, Total	mg/L	-0.0000033	0.000440	0.100	0.0962	0.0971	0.0999	0.0850 to 0.115	96.2	70.0 to 130	0.931	20.0
BD13852	Cobalt, Dissolved	mg/L	0.0000013	0.000147	0.100	0.0981	0.0975	0.0998	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BD13852	Cobalt, Total	mg/L	0.0000035	0.000147	0.100	0.0983	0.0980	0.103	0.0850 to 0.115	98.3	70.0 to 130	0.306	20.0
BD13852	Fluoride	mg/L	0.0168	0.125	2.50	2.78	2.80	2.67	2.25 to 2.75	107	80.0 to 120	0.717	20.0
BD13852	Iron, Dissolved	mg/L	0.00101	0.0176	0.2	0.933	0.932	0.201	0.170 to 0.230	97.0	70.0 to 130	0.107	20.0
BD13852	Iron, Total	mg/L	0.00421	0.0176	0.2	0.710	0.713	0.195	0.170 to 0.230	97.5	70.0 to 130	0.422	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/26/23 12:55

Customer ID:

Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BD13852

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD13852	Lead, Dissolved	mg/L	0.0000070	0.000147	0.100	0.101	0.0975	0.103	0.0850 to 0.115	101	70.0 to 130	3.53	20.0
BD13852	Lead, Total	mg/L	0.0000180	0.000147	0.100	0.0972	0.0976	0.101	0.0850 to 0.115	97.1	70.0 to 130	0.411	20.0
BD13852	Lithium, Dissolved	mg/L	-0.000365	0.0154	0.200	0.209	0.211	0.199	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BD13852	Lithium, Total	mg/L	0.000861	0.0154	0.200	0.205	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD13852	Magnesium, Dissolved	mg/L	0.00741	0.0462	5.00	36.0	36.2	4.91	4.25 to 5.75	94.0	70.0 to 130	0.554	20.0
BD13852	Magnesium, Total	mg/L	-0.00656	0.0462	5.00	26.6	26.3	5.08	4.25 to 5.75	100	70.0 to 130	1.13	20.0
BD13852	Manganese, Dissolved	mg/L	0.0000081	0.00033	0.100	0.164	0.161	0.100	0.0850 to 0.115	99.2	70.0 to 130	1.85	20.0
BD13852	Manganese, Total	mg/L	0.0000680	0.00033	0.100	0.156	0.154	0.103	0.0850 to 0.115	101	70.0 to 130	1.29	20.0
BD13852	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00399	0.00401	0.00401	0.00340 to 0.00460	99.8	70.0 to 130	0.500	20.0
BD13852	Molybdenum, Dissolved	mg/L	0.000655	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD13852	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.199	0.201	0.196	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD13852	Potassium, Dissolved	mg/L	-0.00949	0.367	10.0	10.4	10.5	10.2	8.50 to 11.5	98.7	70.0 to 130	0.957	20.0
BD13852	Potassium, Total	mg/L	0.00658	0.367	10.0	10.5	10.5	10.2	8.50 to 11.5	99.9	70.0 to 130	0.00	20.0
BD13852	Selenium, Dissolved	mg/L	0.000171	0.00100	0.100	0.105	0.105	0.103	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD13852	Selenium, Total	mg/L	0.0000784	0.00100	0.100	0.0997	0.103	0.105	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD13852	Silicon, Dissolved	mg/L	0.000327	0.0440	1.00	6.19	6.18	1.01	0.850 to 1.15	98.0	70.0 to 130	0.162	20.0
BD13852	Silicon, Total	mg/L	0.000226	0.0440	1.00	5.56	5.58	1.01	0.850 to 1.15	104	70.0 to 130	0.359	20.0
BD13852	Sodium, Dissolved	mg/L	0.00496	0.0880	5.00	19.2	19.2	5.07	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BD13852	Sodium, Total	mg/L	0.00228	0.0880	5.00	29.3	29.2	5.06	4.25 to 5.75	94.0	70.0 to 130	0.342	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD13852	Thallium, Dissolved	mg/L	-0.0000026	0.000147	0.100	0.105	0.102	0.108	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD13852	Thallium, Total	mg/L	0.0000050	0.000147	0.100	0.0982	0.0976	0.0988	0.0850 to 0.115	98.2	70.0 to 130	0.613	20.0
BD13852	Total Organic Carbon	mg/L	0.136	1.00	10.0	11.0	11.1	9.35		110	80.0 to 120	0.905	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/26/23 12:55
Customer ID:
Delivery Date: 7/27/23 09:54

Description: Gaston Ash Pond - MW-14

Laboratory ID Number: BD13852

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD13852	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.06	0.200	2.00	1.98	-0.052	2.08	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD13852	Solids, Dissolved	mg/L	2.00	25.0			282	57.0	40.0 to 60.0			0.354	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 7/31/23 16:14
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14401

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	8/3/23 10:28	8/4/23 12:14		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/3/23 10:28	8/4/23 12:14		1.015	32.7	mg/L	0.070035	0.406	
* Iron, Total	8/3/23 10:28	8/4/23 12:14		1.015	0.0531	mg/L	0.008120	0.0406	
* Lithium, Total	8/3/23 10:28	8/4/23 12:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/3/23 10:28	8/4/23 12:14		1.015	18.0	mg/L	0.021315	0.406	
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:14		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:14		1	8.47	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:14		1.015	3.96	mg/L	0.02030	0.25375	
* Sodium, Total	8/3/23 10:28	8/4/23 12:14		1.015	2.18	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	8/3/23 08:52	8/4/23 13:28		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	8/3/23 08:52	8/4/23 13:28		1.015	28.5	mg/L	0.070035	0.406	
* Iron, Dissolved	8/3/23 08:52	8/4/23 13:28		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	8/3/23 08:52	8/4/23 13:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	8/3/23 08:52	8/4/23 13:28		1.015	17.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	8/3/23 08:52	8/4/23 13:28		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	8/3/23 08:52	8/4/23 13:28		1	7.58	mg/L			
* Silicon, Dissolved	8/3/23 08:52	8/4/23 13:28		1.015	3.54	mg/L	0.02030	0.25375	
* Sodium, Dissolved	8/3/23 08:52	8/4/23 13:28		1.015	2.09	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	8/3/23 10:28	8/3/23 11:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.198	mg/L	0.009135	0.05075	
* Arsenic, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.000736	mg/L	0.000112	0.000203	
* Barium, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.0157	mg/L	0.000508	0.001015	
* Beryllium, Total	8/3/23 10:28	8/3/23 11:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.000709	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.000246	mg/L	0.000068	0.000203	
* Lead, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.000729	mg/L	0.000068	0.000203	
* Manganese, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.0637	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 7/31/23 16:14
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14401

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.285	mg/L	0.169505	0.5075	J
* Selenium, Total	8/3/23 10:28	8/3/23 11:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:15		1.015	0.000399	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	0.000504	mg/L	0.000112	0.000203	
* Barium, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	0.0134	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	0.000391	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	0.218	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	8/3/23 08:52	8/3/23 10:25		1.015	0.000262	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 20:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	8/3/23 07:12	8/3/23 07:12		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	144	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	150	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	142	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	1.84	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.54	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-3

Location Code: WMWGASAP
Collected: 7/31/23 16:14
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14401

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 20:31	8/2/23 20:31	1		Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:44	8/3/23 11:44	1		2.96	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:39	8/3/23 14:39	1		0.0836	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:50	8/10/23 14:50	1		4.18	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	7/31/23 16:11	7/31/23 16:11			269.49	uS/cm			FA
pH	7/31/23 16:11	7/31/23 16:11			7.75	SU			FA
Temperature	7/31/23 16:11	7/31/23 16:11			21.15	C			FA
Turbidity	7/31/23 16:11	7/31/23 16:11			9.88	NTU			FA
Sulfide	7/31/23 16:11	7/31/23 16:11			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/31/23 16:14

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BD14401

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD14409	Aluminum, Dissolved	mg/L	-0.000169	0.0198	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BD14409	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0928	0.0929	0.0957	0.0850 to 0.115	91.6	70.0 to 130	0.108	20.0	
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0	
BD14409	Arsenic, Dissolved	mg/L	0.0000066	0.000200	0.100	0.100	0.102	0.0995	0.0850 to 0.115	99.8	70.0 to 130	1.98	20.0	
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0	
BD14409	Barium, Dissolved	mg/L	-0.0000148	0.00100	0.100	0.123	0.119	0.104	0.0850 to 0.115	102	70.0 to 130	3.31	20.0	
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0	
BD14409	Beryllium, Dissolved	mg/L	0.0000347	0.000880	0.100	0.101	0.0967	0.101	0.0850 to 0.115	101	70.0 to 130	4.35	20.0	
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0	
BD14409	Boron, Dissolved	mg/L	0.000178	0.0650	1.00	1.47	1.45	0.989	0.850 to 1.15	101	70.0 to 130	1.37	20.0	
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0	
BD14409	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0944	0.0967	0.0999	0.0850 to 0.115	94.4	70.0 to 130	2.41	20.0	
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0	
BD14409	Calcium, Dissolved	mg/L	-0.0108	0.152	5.00	50.4	47.9	4.81	4.25 to 5.75	116	70.0 to 130	5.09	20.0	
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0	
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0	
BD14409	Chromium, Dissolved	mg/L	-0.0000290	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0	
BD14409	Cobalt, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.102	0.102	0.106	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0	
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0	
BD14409	Iron, Dissolved	mg/L	-0.00551	0.0176	0.2	0.191	0.195	0.192	0.170 to 0.230	95.5	70.0 to 130	2.07	20.0	
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/31/23 16:14

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BD14401

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14409	Lead, Dissolved	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.102	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14409	Lithium, Dissolved	mg/L	0.000106	0.0154	0.200	0.210	0.210	0.204	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14409	Magnesium, Dissolved	mg/L	-0.0180	0.0462	5.00	27.2	27.2	5.20	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14409	Manganese, Dissolved	mg/L	0.0000084	0.00033	0.100	0.103	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14409	Molybdenum, Dissolved	mg/L	0.00142	0.0100	0.2	0.225	0.223	0.191	0.170 to 0.230	96.5	70.0 to 130	0.893	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14409	Potassium, Dissolved	mg/L	0.00702	0.367	10.0	11.6	11.6	10.1	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14409	Selenium, Dissolved	mg/L	0.0000454	0.00100	0.100	0.104	0.106	0.105	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14409	Silicon, Dissolved	mg/L	0.000121	0.0440	1.00	4.65	4.60	0.998	0.850 to 1.15	103	70.0 to 130	1.08	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14409	Sodium, Dissolved	mg/L	-0.00390	0.0880	5.00	12.5	12.5	5.28	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD14409	Thallium, Dissolved	mg/L	-0.0000092	0.000147	0.100	0.0962	0.0993	0.0970	0.0850 to 0.115	96.2	70.0 to 130	3.17	20.0
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/31/23 16:14

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-3

Laboratory ID Number: BD14401

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 8/1/23 09:06
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/3/23 10:28	8/4/23 12:17		1.015	2.98	mg/L	0.030000	0.1015	
* Calcium, Total	8/3/23 10:28	8/4/23 13:18		10.15	126	mg/L	0.70035	4.06	
* Iron, Total	8/3/23 10:28	8/4/23 12:17		1.015	0.372	mg/L	0.008120	0.0406	
* Lithium, Total	8/3/23 10:28	8/4/23 12:17		1.015	0.0373	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/3/23 10:28	8/4/23 13:18		10.15	60.7	mg/L	0.21315	4.06	
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:17		1.015	0.370	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:17		1	9.07	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:17		1.015	4.24	mg/L	0.02030	0.25375	
* Sodium, Total	8/3/23 10:28	8/4/23 12:17		1.015	30.8	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	8/3/23 08:52	8/4/23 13:31		1.015	2.98	mg/L	0.030000	0.1015	
* Calcium, Dissolved	8/3/23 08:52	8/4/23 14:04		10.15	119	mg/L	0.70035	4.06	
* Iron, Dissolved	8/3/23 08:52	8/4/23 13:31		1.015	0.365	mg/L	0.008120	0.0406	
* Lithium, Dissolved	8/3/23 08:52	8/4/23 13:31		1.015	0.0339	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	8/3/23 08:52	8/4/23 14:04		10.15	67.2	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	8/3/23 08:52	8/4/23 13:31		1.015	0.352	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	8/3/23 08:52	8/4/23 13:31		1	8.37	mg/L			
* Silicon, Dissolved	8/3/23 08:52	8/4/23 13:31		1.015	3.91	mg/L	0.02030	0.25375	
* Sodium, Dissolved	8/3/23 08:52	8/4/23 13:31		1.015	29.7	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/3/23 10:28	8/3/23 11:18		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	8/3/23 10:28	8/3/23 11:18		1.015	0.00367	mg/L	0.000112	0.000203	
* Aluminum, Total	8/3/23 10:28	8/3/23 11:18		1.015	0.0181	mg/L	0.009135	0.05075	J
* Barium, Total	8/3/23 10:28	8/3/23 11:18		1.015	0.0341	mg/L	0.000508	0.001015	
* Beryllium, Total	8/3/23 10:28	8/3/23 11:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:18		1.015	0.000312	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/3/23 10:28	8/3/23 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/3/23 10:28	8/3/23 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/3/23 10:28	8/3/23 11:18		1.015	0.0428	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP

Collected: 8/1/23 09:06

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	8/3/23 10:28	8/3/23 11:18		1.015	0.474	mg/L	0.169505	0.5075	J
* Selenium, Total	8/3/23 10:28	8/3/23 11:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	0.00364	mg/L	0.000112	0.000203	
* Barium, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	0.0355	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	0.000230	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	0.0400	mg/L	0.000152	0.001015	
* Potassium, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	0.421	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	8/2/23 09:15	8/2/23 09:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	8/3/23 08:52	8/3/23 10:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 20:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	8/3/23 07:14	8/3/23 07:14		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	80.9	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	788	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	80.3	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	0.547	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.50	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-34V

Location Code: WMWGASAP
Collected: 8/1/23 09:06
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 20:47	8/2/23 20:47		1	1.44	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:45	8/3/23 11:45		1	16.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:40	8/3/23 14:40		1	0.0858	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:04	8/10/23 15:04		32	470	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/1/23 09:03	8/1/23 09:03			960.32	uS/cm			FA
pH	8/1/23 09:03	8/1/23 09:03			7.80	SU			FA
Temperature	8/1/23 09:03	8/1/23 09:03			23.73	C			FA
Turbidity	8/1/23 09:03	8/1/23 09:03			0.76	NTU			FA
Sulfide	8/1/23 09:03	8/1/23 09:03			1.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 09:06

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BD14402

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD14409	Aluminum, Dissolved	mg/L	-0.000169	0.0198	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD14409	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0928	0.0929	0.0957	0.0850 to 0.115	91.6	70.0 to 130	0.108	20.0
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0
BD14409	Arsenic, Dissolved	mg/L	0.0000066	0.000200	0.100	0.100	0.102	0.0995	0.0850 to 0.115	99.8	70.0 to 130	1.98	20.0
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD14409	Barium, Dissolved	mg/L	-0.0000148	0.00100	0.100	0.123	0.119	0.104	0.0850 to 0.115	102	70.0 to 130	3.31	20.0
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0
BD14409	Beryllium, Dissolved	mg/L	0.0000347	0.000880	0.100	0.101	0.0967	0.101	0.0850 to 0.115	101	70.0 to 130	4.35	20.0
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0
BD14409	Boron, Dissolved	mg/L	0.000178	0.0650	1.00	1.47	1.45	0.989	0.850 to 1.15	101	70.0 to 130	1.37	20.0
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0
BD14409	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0944	0.0967	0.0999	0.0850 to 0.115	94.4	70.0 to 130	2.41	20.0
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0
BD14409	Calcium, Dissolved	mg/L	-0.0108	0.152	5.00	50.4	47.9	4.81	4.25 to 5.75	116	70.0 to 130	5.09	20.0
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0
BD14409	Chromium, Dissolved	mg/L	-0.0000290	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0
BD14409	Cobalt, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.102	0.102	0.106	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0
BD14409	Iron, Dissolved	mg/L	-0.00551	0.0176	0.2	0.191	0.195	0.192	0.170 to 0.230	95.5	70.0 to 130	2.07	20.0
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 09:06

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BD14402

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14409	Lead, Dissolved	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.102	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14409	Lithium, Dissolved	mg/L	0.000106	0.0154	0.200	0.210	0.210	0.204	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14409	Magnesium, Dissolved	mg/L	-0.0180	0.0462	5.00	27.2	27.2	5.20	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14409	Manganese, Dissolved	mg/L	0.0000084	0.00033	0.100	0.103	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14409	Molybdenum, Dissolved	mg/L	0.00142	0.0100	0.2	0.225	0.223	0.191	0.170 to 0.230	96.5	70.0 to 130	0.893	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14409	Potassium, Dissolved	mg/L	0.00702	0.367	10.0	11.6	11.6	10.1	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14402	Selenium, Dissolved	mg/L	0.0000524	0.00100	0.100	0.103	0.103	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14409	Silicon, Dissolved	mg/L	0.000121	0.0440	1.00	4.65	4.60	0.998	0.850 to 1.15	103	70.0 to 130	1.08	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14409	Sodium, Dissolved	mg/L	-0.00390	0.0880	5.00	12.5	12.5	5.28	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD14409	Thallium, Dissolved	mg/L	-0.0000092	0.000147	0.100	0.0962	0.0993	0.0970	0.0850 to 0.115	96.2	70.0 to 130	3.17	20.0
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 09:06

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-34V

Laboratory ID Number: BD14402

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-3

Location Code: WMWGASAPFB

Collected: 8/1/23 10:15

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14403

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	8/3/23 10:28	8/4/23 12:20		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/3/23 10:28	8/4/23 12:20		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	8/3/23 10:28	8/4/23 12:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/3/23 10:28	8/4/23 12:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/3/23 10:28	8/4/23 12:20		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:20		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:20		1	Not Detected	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:20		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	8/3/23 10:28	8/4/23 12:20		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ELH						
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 20:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	8/3/23 07:16	8/3/23 07:16		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-3

Location Code: WMWGASAPFB

Collected: 8/1/23 10:15

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14403

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 21:01	8/2/23 21:01		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:52	8/3/23 11:52		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:41	8/3/23 14:41		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:52	8/10/23 14:52		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 8/1/23 10:15

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BD14403

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 8/1/23 10:15

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BD14403

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 8/1/23 10:15

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond Field Blank-3

Laboratory ID Number: BD14403

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP
Collected: 8/1/23 10:37
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/3/23 10:28	8/4/23 12:24		1.015	0.195	mg/L	0.030000	0.1015	
* Calcium, Total	8/3/23 10:28	8/4/23 12:24		1.015	34.2	mg/L	0.070035	0.406	
* Iron, Total	8/3/23 10:28	8/4/23 12:24		1.015	0.113	mg/L	0.008120	0.0406	
* Lithium, Total	8/3/23 10:28	8/4/23 12:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/3/23 10:28	8/4/23 12:24		1.015	23.7	mg/L	0.021315	0.406	
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:24		1.015	0.0123	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:24		1	16.3	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:24		1.015	7.60	mg/L	0.02030	0.25375	
* Sodium, Total	8/3/23 10:28	8/4/23 12:24		1.015	39.6	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	8/3/23 08:52	8/4/23 13:34		1.015	0.193	mg/L	0.030000	0.1015	
* Calcium, Dissolved	8/3/23 08:52	8/4/23 13:34		1.015	30.7	mg/L	0.070035	0.406	
* Iron, Dissolved	8/3/23 08:52	8/4/23 13:34		1.015	0.0558	mg/L	0.008120	0.0406	
* Lithium, Dissolved	8/3/23 08:52	8/4/23 13:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	8/3/23 08:52	8/4/23 13:34		1.015	24.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	8/3/23 08:52	8/4/23 13:34		1.015	0.0124	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	8/3/23 08:52	8/4/23 13:34		1	15.5	mg/L			
* Silicon, Dissolved	8/3/23 08:52	8/4/23 13:34		1.015	7.23	mg/L	0.02030	0.25375	
* Sodium, Dissolved	8/3/23 08:52	8/4/23 14:07		10.15	42.9	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	8/3/23 10:28	8/3/23 11:25		1.015	0.00361	mg/L	0.000112	0.000203	
* Barium, Total	8/3/23 10:28	8/3/23 11:25		1.015	0.0150	mg/L	0.000508	0.001015	
* Beryllium, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/3/23 10:28	8/3/23 11:25		1.015	0.0357	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP

Collected: 8/1/23 10:37

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	8/3/23 10:28	8/3/23 11:25		1.015	0.820	mg/L	0.169505	0.5075	
* Selenium, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	0.00295	mg/L	0.000112	0.000203	
* Barium, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	0.0156	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	0.0347	mg/L	0.000152	0.001015	
* Potassium, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	0.816	mg/L	0.169505	0.5075	
* Selenium, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	0.000535	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	8/3/23 08:52	8/3/23 10:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 21:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	8/3/23 07:18	8/3/23 07:18		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	220	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	283	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	217	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	3.09	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.55	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-35V

Location Code: WMWGASAP

Collected: 8/1/23 10:37

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 21:16	8/2/23 21:16		1	1.18	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:46	8/3/23 11:46		1	7.56	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:42	8/3/23 14:42		1	0.132	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 14:53	8/10/23 14:53		1	37.5	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/1/23 10:34	8/1/23 10:34			459.20	uS/cm			FA
pH	8/1/23 10:34	8/1/23 10:34			8.20	SU			FA
Temperature	8/1/23 10:34	8/1/23 10:34			25.12	C			FA
Turbidity	8/1/23 10:34	8/1/23 10:34			0.69	NTU			FA
Sulfide	8/1/23 10:34	8/1/23 10:34			1.0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 10:37

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BD14404

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD14409	Aluminum, Dissolved	mg/L	-0.000169	0.0198	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BD14409	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0928	0.0929	0.0957	0.0850 to 0.115	91.6	70.0 to 130	0.108	20.0	
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0	
BD14409	Arsenic, Dissolved	mg/L	0.0000066	0.000200	0.100	0.100	0.102	0.0995	0.0850 to 0.115	99.8	70.0 to 130	1.98	20.0	
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0	
BD14409	Barium, Dissolved	mg/L	-0.0000148	0.00100	0.100	0.123	0.119	0.104	0.0850 to 0.115	102	70.0 to 130	3.31	20.0	
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0	
BD14409	Beryllium, Dissolved	mg/L	0.0000347	0.000880	0.100	0.101	0.0967	0.101	0.0850 to 0.115	101	70.0 to 130	4.35	20.0	
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0	
BD14409	Boron, Dissolved	mg/L	0.000178	0.0650	1.00	1.47	1.45	0.989	0.850 to 1.15	101	70.0 to 130	1.37	20.0	
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0	
BD14409	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0944	0.0967	0.0999	0.0850 to 0.115	94.4	70.0 to 130	2.41	20.0	
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0	
BD14409	Calcium, Dissolved	mg/L	-0.0108	0.152	5.00	50.4	47.9	4.81	4.25 to 5.75	116	70.0 to 130	5.09	20.0	
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0	
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0	
BD14409	Chromium, Dissolved	mg/L	-0.0000290	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0	
BD14409	Cobalt, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.102	0.102	0.106	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0	
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0	
BD14409	Iron, Dissolved	mg/L	-0.00551	0.0176	0.2	0.191	0.195	0.192	0.170 to 0.230	95.5	70.0 to 130	2.07	20.0	
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 10:37

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BD14404

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14409	Lead, Dissolved	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.102	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14409	Lithium, Dissolved	mg/L	0.000106	0.0154	0.200	0.210	0.210	0.204	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14409	Magnesium, Dissolved	mg/L	-0.0180	0.0462	5.00	27.2	27.2	5.20	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14409	Manganese, Dissolved	mg/L	0.0000084	0.00033	0.100	0.103	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14409	Molybdenum, Dissolved	mg/L	0.00142	0.0100	0.2	0.225	0.223	0.191	0.170 to 0.230	96.5	70.0 to 130	0.893	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14409	Potassium, Dissolved	mg/L	0.00702	0.367	10.0	11.6	11.6	10.1	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14409	Selenium, Dissolved	mg/L	0.0000454	0.00100	0.100	0.104	0.106	0.105	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14409	Silicon, Dissolved	mg/L	0.000121	0.0440	1.00	4.65	4.60	0.998	0.850 to 1.15	103	70.0 to 130	1.08	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14409	Sodium, Dissolved	mg/L	-0.00390	0.0880	5.00	12.5	12.5	5.28	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD14409	Thallium, Dissolved	mg/L	-0.0000092	0.000147	0.100	0.0962	0.0993	0.0970	0.0850 to 0.115	96.2	70.0 to 130	3.17	20.0
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 10:37

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-35V

Laboratory ID Number: BD14404

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 7/31/23 13:07
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/3/23 10:28	8/4/23 12:27		1.015	0.371	mg/L	0.030000	0.1015	
* Calcium, Total	8/3/23 10:28	8/4/23 13:21		10.15	44.6	mg/L	0.70035	4.06	
* Iron, Total	8/3/23 10:28	8/4/23 12:27		1.015	0.00850	mg/L	0.008120	0.0406	J
* Lithium, Total	8/3/23 10:28	8/4/23 12:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/3/23 10:28	8/4/23 12:27		1.015	22.7	mg/L	0.021315	0.406	
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:27		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:27		1	9.07	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:27		1.015	4.24	mg/L	0.02030	0.25375	
* Sodium, Total	8/3/23 10:28	8/4/23 12:27		1.015	6.28	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	8/3/23 08:52	8/4/23 13:37		1.015	0.370	mg/L	0.030000	0.1015	
* Calcium, Dissolved	8/3/23 08:52	8/4/23 13:37		1.015	39.3	mg/L	0.070035	0.406	
* Iron, Dissolved	8/3/23 08:52	8/4/23 13:37		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	8/3/23 08:52	8/4/23 13:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	8/3/23 08:52	8/4/23 13:37		1.015	23.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	8/3/23 08:52	8/4/23 13:37		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	8/3/23 08:52	8/4/23 13:37		1	8.52	mg/L			
* Silicon, Dissolved	8/3/23 08:52	8/4/23 13:37		1.015	3.98	mg/L	0.02030	0.25375	
* Sodium, Dissolved	8/3/23 08:52	8/4/23 13:37		1.015	6.59	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/3/23 10:28	8/3/23 11:29		1.015	0.00322	mg/L	0.000710	0.001015	
* Aluminum, Total	8/3/23 10:28	8/3/23 11:29		1.015	0.0122	mg/L	0.009135	0.05075	J
* Arsenic, Total	8/3/23 10:28	8/3/23 11:29		1.015	0.000149	mg/L	0.000112	0.000203	J
* Barium, Total	8/3/23 10:28	8/3/23 11:29		1.015	0.00987	mg/L	0.000508	0.001015	
* Beryllium, Total	8/3/23 10:28	8/3/23 11:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:29		1.015	0.000843	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/3/23 10:28	8/3/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/3/23 10:28	8/3/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/3/23 10:28	8/3/23 11:29		1.015	0.000425	mg/L	0.000152	0.001015	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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 7/31/23 13:07
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	8/3/23 10:28	8/3/23 11:29		1.015	0.266	mg/L	0.169505	0.5075	J
* Selenium, Total	8/3/23 10:28	8/3/23 11:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	0.000909	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	0.000122	mg/L	0.000112	0.000203	J
* Barium, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	0.00942	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	0.000589	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	0.250	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	8/3/23 08:52	8/3/23 10:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 21:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	8/3/23 07:20	8/3/23 07:20		1	0.770	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	126	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	242	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	125	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	1.17	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.50	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-11

Location Code: WMWGASAP
Collected: 7/31/23 13:07
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 21:30	8/2/23 21:30		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:47	8/3/23 11:47		1	7.77	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:43	8/3/23 14:43		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:15	8/10/23 15:15		5	69.0	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	7/31/23 13:04	7/31/23 13:04			389.21	uS/cm			FA
pH	7/31/23 13:04	7/31/23 13:04			7.73	SU			FA
Temperature	7/31/23 13:04	7/31/23 13:04			23.63	C			FA
Turbidity	7/31/23 13:04	7/31/23 13:04			4.3	NTU			FA
Sulfide	7/31/23 13:04	7/31/23 13:04			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/31/23 13:07

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BD14405

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD14409	Aluminum, Dissolved	mg/L	-0.000169	0.0198	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BD14409	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0928	0.0929	0.0957	0.0850 to 0.115	91.6	70.0 to 130	0.108	20.0	
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0	
BD14409	Arsenic, Dissolved	mg/L	0.0000066	0.000200	0.100	0.100	0.102	0.0995	0.0850 to 0.115	99.8	70.0 to 130	1.98	20.0	
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0	
BD14409	Barium, Dissolved	mg/L	-0.0000148	0.00100	0.100	0.123	0.119	0.104	0.0850 to 0.115	102	70.0 to 130	3.31	20.0	
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0	
BD14409	Beryllium, Dissolved	mg/L	0.0000347	0.000880	0.100	0.101	0.0967	0.101	0.0850 to 0.115	101	70.0 to 130	4.35	20.0	
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0	
BD14409	Boron, Dissolved	mg/L	0.000178	0.0650	1.00	1.47	1.45	0.989	0.850 to 1.15	101	70.0 to 130	1.37	20.0	
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0	
BD14409	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0944	0.0967	0.0999	0.0850 to 0.115	94.4	70.0 to 130	2.41	20.0	
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0	
BD14409	Calcium, Dissolved	mg/L	-0.0108	0.152	5.00	50.4	47.9	4.81	4.25 to 5.75	116	70.0 to 130	5.09	20.0	
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0	
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0	
BD14409	Chromium, Dissolved	mg/L	-0.0000290	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0	
BD14409	Cobalt, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.102	0.102	0.106	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0	
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0	
BD14409	Iron, Dissolved	mg/L	-0.00551	0.0176	0.2	0.191	0.195	0.192	0.170 to 0.230	95.5	70.0 to 130	2.07	20.0	
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 7/31/23 13:07

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BD14405

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14409	Lead, Dissolved	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.102	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14409	Lithium, Dissolved	mg/L	0.000106	0.0154	0.200	0.210	0.210	0.204	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14409	Magnesium, Dissolved	mg/L	-0.0180	0.0462	5.00	27.2	27.2	5.20	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14409	Manganese, Dissolved	mg/L	0.0000084	0.00033	0.100	0.103	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14409	Molybdenum, Dissolved	mg/L	0.00142	0.0100	0.2	0.225	0.223	0.191	0.170 to 0.230	96.5	70.0 to 130	0.893	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14409	Potassium, Dissolved	mg/L	0.00702	0.367	10.0	11.6	11.6	10.1	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14409	Selenium, Dissolved	mg/L	0.0000454	0.00100	0.100	0.104	0.106	0.105	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14409	Silicon, Dissolved	mg/L	0.000121	0.0440	1.00	4.65	4.60	0.998	0.850 to 1.15	103	70.0 to 130	1.08	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14409	Sodium, Dissolved	mg/L	-0.00390	0.0880	5.00	12.5	12.5	5.28	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14405	Sulfate	mg/L	-0.00842	2.0	100	169	169	20.2	18.0 to 22.0	100	80.0 to 120	0.00	20.0
BD14409	Thallium, Dissolved	mg/L	-0.0000092	0.000147	0.100	0.0962	0.0993	0.0970	0.0850 to 0.115	96.2	70.0 to 130	3.17	20.0
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP
Sample Date: 7/31/23 13:07
Customer ID:
Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-11

Laboratory ID Number: BD14405

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-5

Location Code: WMWGASAPFB

Collected: 7/31/23 13:45

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/3/23 10:28	8/4/23 12:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/3/23 10:28	8/4/23 12:31		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	8/3/23 10:28	8/4/23 12:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/3/23 10:28	8/4/23 12:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/3/23 10:28	8/4/23 12:31		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:31		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:31		1	Not Detected	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:31		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	8/3/23 10:28	8/4/23 12:31		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:32		1.015	0.000214	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ELH						
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 21:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	8/3/23 07:22	8/3/23 07:22		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Field Blank-5

Location Code: WMWASAPFB

Collected: 7/31/23 13:45

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 21:45	8/2/23 21:45		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:53	8/3/23 11:53		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:45	8/3/23 14:45		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:31	8/10/23 15:31		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/31/23 13:45

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BD14406

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14410	Sulfate	mg/L	0.120	2.0	20.0	20.1	20.3	20.2	18.0 to 22.0	100	80.0 to 120	0.990	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/31/23 13:45

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BD14406

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPFB

Sample Date: 7/31/23 13:45

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond Field Blank-5

Laboratory ID Number: BD14406

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 8/1/23 10:33
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/3/23 10:28	8/4/23 12:34		1.015	2.10	mg/L	0.030000	0.1015	
* Calcium, Total	8/3/23 10:28	8/4/23 13:25		10.15	95.2	mg/L	0.70035	4.06	
* Iron, Total	8/3/23 10:28	8/4/23 12:34		1.015	0.0784	mg/L	0.008120	0.0406	
* Lithium, Total	8/3/23 10:28	8/4/23 12:34		1.015	0.0265	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/3/23 10:28	8/4/23 12:34		1.015	28.4	mg/L	0.021315	0.406	
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:34		1.015	0.129	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:34		1	6.93	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:34		1.015	3.24	mg/L	0.02030	0.25375	
* Sodium, Total	8/3/23 10:28	8/4/23 13:25		10.15	52.5	mg/L	0.4060	4.06	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	8/3/23 08:52	8/4/23 13:40		1.015	2.09	mg/L	0.030000	0.1015	
* Calcium, Dissolved	8/3/23 08:52	8/4/23 14:11		10.15	86.6	mg/L	0.70035	4.06	
* Iron, Dissolved	8/3/23 08:52	8/4/23 13:40		1.015	0.0590	mg/L	0.008120	0.0406	
* Lithium, Dissolved	8/3/23 08:52	8/4/23 13:40		1.015	0.0228	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	8/3/23 08:52	8/4/23 13:40		1.015	29.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	8/3/23 08:52	8/4/23 13:40		1.015	0.124	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	8/3/23 08:52	8/4/23 13:40		1	6.57	mg/L			
* Silicon, Dissolved	8/3/23 08:52	8/4/23 13:40		1.015	3.07	mg/L	0.02030	0.25375	
* Sodium, Dissolved	8/3/23 08:52	8/4/23 14:11		10.15	60.7	mg/L	0.4060	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/3/23 10:28	8/3/23 11:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	8/3/23 10:28	8/3/23 11:36		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	8/3/23 10:28	8/3/23 11:36		1.015	0.000497	mg/L	0.000112	0.000203	
* Barium, Total	8/3/23 10:28	8/3/23 11:36		1.015	0.0525	mg/L	0.000508	0.001015	
* Beryllium, Total	8/3/23 10:28	8/3/23 11:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:36		1.015	0.000237	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/3/23 10:28	8/3/23 11:36		1.015	0.000213	mg/L	0.000068	0.000203	
* Lead, Total	8/3/23 10:28	8/3/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/3/23 10:28	8/3/23 11:36		1.015	0.225	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP
Collected: 8/1/23 10:33
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	8/3/23 10:28	8/3/23 11:36		1.015	5.50	mg/L	0.169505	0.5075	
* Selenium, Total	8/3/23 10:28	8/3/23 11:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	0.000487	mg/L	0.000112	0.000203	
* Barium, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	0.0524	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	0.000270	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	0.000235	mg/L	0.000068	0.000203	
* Lead, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	0.255	mg/L	0.000152	0.001015	
* Potassium, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	5.49	mg/L	0.169505	0.5075	
* Selenium, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	8/3/23 08:52	8/3/23 10:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 21:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	8/3/23 07:23	8/3/23 07:23		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	92.1	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	580	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	91.6	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	0.519	mg CaCO3/L		0.5	A
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.49	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-15R

Location Code: WMWGASAP

Collected: 8/1/23 10:33

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 21:57	8/2/23 21:57		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:58	8/3/23 11:58		5	86.1	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:46	8/3/23 14:46		1	0.0627	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:40	8/10/23 15:40		16	233	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/1/23 10:29	8/1/23 10:29			931.65	uS/cm			FA
pH	8/1/23 10:29	8/1/23 10:29			7.48	SU			FA
Temperature	8/1/23 10:29	8/1/23 10:29			21.24	C			FA
Turbidity	8/1/23 10:29	8/1/23 10:29			0.24	NTU			FA
Sulfide	8/1/23 10:29	8/1/23 10:29			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 10:33

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BD14407

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14409	Aluminum, Dissolved	mg/L	-0.000169	0.0198	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD14409	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0928	0.0929	0.0957	0.0850 to 0.115	91.6	70.0 to 130	0.108	20.0
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0
BD14409	Arsenic, Dissolved	mg/L	0.0000066	0.000200	0.100	0.100	0.102	0.0995	0.0850 to 0.115	99.8	70.0 to 130	1.98	20.0
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD14409	Barium, Dissolved	mg/L	-0.0000148	0.00100	0.100	0.123	0.119	0.104	0.0850 to 0.115	102	70.0 to 130	3.31	20.0
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0
BD14409	Beryllium, Dissolved	mg/L	0.0000347	0.000880	0.100	0.101	0.0967	0.101	0.0850 to 0.115	101	70.0 to 130	4.35	20.0
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0
BD14409	Boron, Dissolved	mg/L	0.000178	0.0650	1.00	1.47	1.45	0.989	0.850 to 1.15	101	70.0 to 130	1.37	20.0
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0
BD14409	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0944	0.0967	0.0999	0.0850 to 0.115	94.4	70.0 to 130	2.41	20.0
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0
BD14409	Calcium, Dissolved	mg/L	-0.0108	0.152	5.00	50.4	47.9	4.81	4.25 to 5.75	116	70.0 to 130	5.09	20.0
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0
BD14409	Chromium, Dissolved	mg/L	-0.0000290	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0
BD14409	Cobalt, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.102	0.102	0.106	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0
BD14409	Iron, Dissolved	mg/L	-0.00551	0.0176	0.2	0.191	0.195	0.192	0.170 to 0.230	95.5	70.0 to 130	2.07	20.0
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 10:33

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BD14407

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD14409	Lead, Dissolved	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.102	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14409	Lithium, Dissolved	mg/L	0.000106	0.0154	0.200	0.210	0.210	0.204	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14409	Magnesium, Dissolved	mg/L	-0.0180	0.0462	5.00	27.2	27.2	5.20	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14409	Manganese, Dissolved	mg/L	0.0000084	0.00033	0.100	0.103	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14409	Molybdenum, Dissolved	mg/L	0.00142	0.0100	0.2	0.225	0.223	0.191	0.170 to 0.230	96.5	70.0 to 130	0.893	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14409	Potassium, Dissolved	mg/L	0.00702	0.367	10.0	11.6	11.6	10.1	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14409	Selenium, Dissolved	mg/L	0.0000454	0.00100	0.100	0.104	0.106	0.105	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14409	Silicon, Dissolved	mg/L	0.000121	0.0440	1.00	4.65	4.60	0.998	0.850 to 1.15	103	70.0 to 130	1.08	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14409	Sodium, Dissolved	mg/L	-0.00390	0.0880	5.00	12.5	12.5	5.28	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14410	Sulfate	mg/L	0.120	2.0	20.0	20.1	20.3	20.2	18.0 to 22.0	100	80.0 to 120	0.990	20.0
BD14409	Thallium, Dissolved	mg/L	-0.0000092	0.000147	0.100	0.0962	0.0993	0.0970	0.0850 to 0.115	96.2	70.0 to 130	3.17	20.0
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 10:33

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-15R

Laboratory ID Number: BD14407

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP
Collected: 8/1/23 11:45
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/3/23 10:28	8/4/23 12:37		1.015	0.833	mg/L	0.030000	0.1015	
* Calcium, Total	8/3/23 10:28	8/4/23 13:28		10.15	63.2	mg/L	0.70035	4.06	
* Iron, Total	8/3/23 10:28	8/4/23 12:37		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/3/23 10:28	8/4/23 12:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/3/23 10:28	8/4/23 12:37		1.015	23.5	mg/L	0.021315	0.406	
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:37		1.015	0.0424	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:37		1	6.70	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:37		1.015	3.13	mg/L	0.02030	0.25375	
* Sodium, Total	8/3/23 10:28	8/4/23 12:37		1.015	10.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	8/3/23 08:52	8/4/23 13:44		1.015	0.824	mg/L	0.030000	0.1015	
* Calcium, Dissolved	8/3/23 08:52	8/4/23 14:14		10.15	56.1	mg/L	0.70035	4.06	
* Iron, Dissolved	8/3/23 08:52	8/4/23 13:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	8/3/23 08:52	8/4/23 13:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	8/3/23 08:52	8/4/23 13:44		1.015	23.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	8/3/23 08:52	8/4/23 13:44		1.015	0.0407	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	8/3/23 08:52	8/4/23 13:44		1	6.36	mg/L			
* Silicon, Dissolved	8/3/23 08:52	8/4/23 13:44		1.015	2.97	mg/L	0.02030	0.25375	
* Sodium, Dissolved	8/3/23 08:52	8/4/23 13:44		1.015	10.9	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/3/23 10:28	8/3/23 11:40		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	8/3/23 10:28	8/3/23 11:40		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	8/3/23 10:28	8/3/23 11:40		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	8/3/23 10:28	8/3/23 11:40		1.015	0.0236	mg/L	0.000508	0.001015	
* Beryllium, Total	8/3/23 10:28	8/3/23 11:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:40		1.015	0.000247	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/3/23 10:28	8/3/23 11:40		1.015	0.0000875	mg/L	0.000068	0.000203	J
* Lead, Total	8/3/23 10:28	8/3/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/3/23 10:28	8/3/23 11:40		1.015	0.0434	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP

Collected: 8/1/23 11:45

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	8/3/23 10:28	8/3/23 11:40		1.015	2.10	mg/L	0.169505	0.5075	
* Selenium, Total	8/3/23 10:28	8/3/23 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	0.0234	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	0.000237	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	0.0221	mg/L	0.000152	0.001015	
* Potassium, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	2.10	mg/L	0.169505	0.5075	
* Selenium, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	8/3/23 08:52	8/3/23 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 21:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	8/3/23 07:23	8/3/23 07:23		1	0.770	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	184	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	299	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	183	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	1.24	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.52	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-22

Location Code: WMWGASAP

Collected: 8/1/23 11:45

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 22:11	8/2/23 22:11	1		Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:50	8/3/23 11:50	1		13.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:47	8/3/23 14:47	1		Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:41	8/10/23 15:41	3		59.3	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/1/23 11:41	8/1/23 11:41			506.33	uS/cm			FA
pH	8/1/23 11:41	8/1/23 11:41			6.88	SU			FA
Temperature	8/1/23 11:41	8/1/23 11:41			20.16	C			FA
Turbidity	8/1/23 11:41	8/1/23 11:41			0.17	NTU			FA
Sulfide	8/1/23 11:41	8/1/23 11:41			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 11:45

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BD14408

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD14409	Aluminum, Dissolved	mg/L	-0.000169	0.0198	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD14409	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0928	0.0929	0.0957	0.0850 to 0.115	91.6	70.0 to 130	0.108	20.0
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0
BD14409	Arsenic, Dissolved	mg/L	0.0000066	0.000200	0.100	0.100	0.102	0.0995	0.0850 to 0.115	99.8	70.0 to 130	1.98	20.0
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD14409	Barium, Dissolved	mg/L	-0.0000148	0.00100	0.100	0.123	0.119	0.104	0.0850 to 0.115	102	70.0 to 130	3.31	20.0
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0
BD14409	Beryllium, Dissolved	mg/L	0.0000347	0.000880	0.100	0.101	0.0967	0.101	0.0850 to 0.115	101	70.0 to 130	4.35	20.0
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0
BD14409	Boron, Dissolved	mg/L	0.000178	0.0650	1.00	1.47	1.45	0.989	0.850 to 1.15	101	70.0 to 130	1.37	20.0
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0
BD14409	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0944	0.0967	0.0999	0.0850 to 0.115	94.4	70.0 to 130	2.41	20.0
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0
BD14409	Calcium, Dissolved	mg/L	-0.0108	0.152	5.00	50.4	47.9	4.81	4.25 to 5.75	116	70.0 to 130	5.09	20.0
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0
BD14409	Chromium, Dissolved	mg/L	-0.0000290	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0
BD14409	Cobalt, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.102	0.102	0.106	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0
BD14409	Iron, Dissolved	mg/L	-0.00551	0.0176	0.2	0.191	0.195	0.192	0.170 to 0.230	95.5	70.0 to 130	2.07	20.0
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 11:45

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BD14408

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14409	Lead, Dissolved	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.102	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14409	Lithium, Dissolved	mg/L	0.000106	0.0154	0.200	0.210	0.210	0.204	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14409	Magnesium, Dissolved	mg/L	-0.0180	0.0462	5.00	27.2	27.2	5.20	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14409	Manganese, Dissolved	mg/L	0.0000084	0.00033	0.100	0.103	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14409	Molybdenum, Dissolved	mg/L	0.00142	0.0100	0.2	0.225	0.223	0.191	0.170 to 0.230	96.5	70.0 to 130	0.893	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14409	Potassium, Dissolved	mg/L	0.00702	0.367	10.0	11.6	11.6	10.1	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14409	Selenium, Dissolved	mg/L	0.0000454	0.00100	0.100	0.104	0.106	0.105	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14409	Silicon, Dissolved	mg/L	0.000121	0.0440	1.00	4.65	4.60	0.998	0.850 to 1.15	103	70.0 to 130	1.08	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14409	Sodium, Dissolved	mg/L	-0.00390	0.0880	5.00	12.5	12.5	5.28	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14410	Sulfate	mg/L	0.120	2.0	20.0	20.1	20.3	20.2	18.0 to 22.0	100	80.0 to 120	0.990	20.0
BD14409	Thallium, Dissolved	mg/L	-0.0000092	0.000147	0.100	0.0962	0.0993	0.0970	0.0850 to 0.115	96.2	70.0 to 130	3.17	20.0
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 11:45

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-22

Laboratory ID Number: BD14408

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP
Collected: 8/1/23 13:15
Customer ID:
Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14409

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	8/3/23 10:28	8/4/23 12:41		1.015	0.464	mg/L	0.030000	0.1015	
* Calcium, Total	8/3/23 10:28	8/4/23 13:31		10.15	48.4	mg/L	0.70035	4.06	
* Iron, Total	8/3/23 10:28	8/4/23 12:41		1.015	0.0878	mg/L	0.008120	0.0406	
* Lithium, Total	8/3/23 10:28	8/4/23 12:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/3/23 10:28	8/4/23 12:41		1.015	21.9	mg/L	0.021315	0.406	
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:41		1.015	0.0335	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:41		1	8.58	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:41		1.015	4.01	mg/L	0.02030	0.25375	
* Sodium, Total	8/3/23 10:28	8/4/23 12:41		1.015	7.19	mg/L	0.04060	0.406	
Analytical Method: EPA 200.7			Analyst: ABB						
* Boron, Dissolved	8/3/23 08:52	8/4/23 13:47		1.015	0.459	mg/L	0.030000	0.1015	
* Calcium, Dissolved	8/3/23 08:52	8/4/23 14:17		10.15	44.6	mg/L	0.70035	4.06	RA
* Iron, Dissolved	8/3/23 08:52	8/4/23 13:47		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	8/3/23 08:52	8/4/23 13:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	8/3/23 08:52	8/4/23 13:47		1.015	22.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	8/3/23 08:52	8/4/23 13:47		1.015	0.0320	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	8/3/23 08:52	8/4/23 13:47		1	7.75	mg/L			
* Silicon, Dissolved	8/3/23 08:52	8/4/23 13:47		1.015	3.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	8/3/23 08:52	8/4/23 13:47		1.015	7.33	mg/L	0.04060	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	8/3/23 10:28	8/3/23 11:43		1.015	0.00132	mg/L	0.000710	0.001015	
* Arsenic, Total	8/3/23 10:28	8/3/23 11:43		1.015	0.000336	mg/L	0.000112	0.000203	
* Aluminum, Total	8/3/23 10:28	8/3/23 11:43		1.015	0.261	mg/L	0.009135	0.05075	
* Barium, Total	8/3/23 10:28	8/3/23 11:43		1.015	0.0216	mg/L	0.000508	0.001015	
* Beryllium, Total	8/3/23 10:28	8/3/23 11:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:43		1.015	0.000416	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/3/23 10:28	8/3/23 11:43		1.015	0.000152	mg/L	0.000068	0.000203	J
* Lead, Total	8/3/23 10:28	8/3/23 11:43		1.015	0.000230	mg/L	0.000068	0.000203	
* Manganese, Total	8/3/23 10:28	8/3/23 11:43		1.015	0.00692	mg/L	0.000152	0.001015	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP

Collected: 8/1/23 13:15

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14409

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	8/3/23 10:28	8/3/23 11:43		1.015	1.88	mg/L	0.169505	0.5075	
* Selenium, Total	8/3/23 10:28	8/3/23 11:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	0.00117	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	0.000150	mg/L	0.000112	0.000203	J
* Barium, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	0.0209	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	0.000315	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	0.00217	mg/L	0.000152	0.001015	
* Potassium, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	1.82	mg/L	0.169505	0.5075	
* Selenium, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	8/3/23 08:52	8/3/23 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ELH							
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 21:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	8/3/23 07:24	8/3/23 07:24		1	1.10	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: DHC							
* Alkalinity	8/7/23 11:57	8/7/23 14:03		1	184	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	228	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: DHC							
* Bicarbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	183	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	8/7/23 11:57	8/7/23 14:03		1	1.39	mg CaCO3/L		0.5	
Analytical Method: SM 4500H+ B		Analyst: DHC							
Alkalinity pH Endpoint	8/7/23 11:57	8/7/23 14:03		1	4.51	SU		2	

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.

Certificate Of Analysis

Description: Gaston Ash Pond - MW-5

Location Code: WMWGASAP

Collected: 8/1/23 13:15

Customer ID:

Submittal Date: 8/2/23 10:12

Laboratory ID Number: BD14409

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 22:28	8/2/23 22:28		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:51	8/3/23 11:51		1	10.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:48	8/3/23 14:48		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:35	8/10/23 15:35		1	20.7	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/1/23 13:10	8/1/23 13:10			408.46	uS/cm			FA
pH	8/1/23 13:10	8/1/23 13:10			7.45	SU			FA
Temperature	8/1/23 13:10	8/1/23 13:10			21.21	C			FA
Turbidity	8/1/23 13:10	8/1/23 13:10			7.99	NTU			FA
Sulfide	8/1/23 13:10	8/1/23 13:10			0	mg/L			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.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 13:15

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BD14409

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD14409	Aluminum, Dissolved	mg/L	-0.000169	0.0198	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BD14409	Antimony, Dissolved	mg/L	0.000318	0.00100	0.100	0.0928	0.0929	0.0957	0.0850 to 0.115	91.6	70.0 to 130	0.108	20.0	
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0	
BD14409	Arsenic, Dissolved	mg/L	0.0000066	0.000200	0.100	0.100	0.102	0.0995	0.0850 to 0.115	99.8	70.0 to 130	1.98	20.0	
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0	
BD14409	Barium, Dissolved	mg/L	-0.0000148	0.00100	0.100	0.123	0.119	0.104	0.0850 to 0.115	102	70.0 to 130	3.31	20.0	
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0	
BD14409	Beryllium, Dissolved	mg/L	0.0000347	0.000880	0.100	0.101	0.0967	0.101	0.0850 to 0.115	101	70.0 to 130	4.35	20.0	
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0	
BD14409	Boron, Dissolved	mg/L	0.000178	0.0650	1.00	1.47	1.45	0.989	0.850 to 1.15	101	70.0 to 130	1.37	20.0	
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0	
BD14409	Cadmium, Dissolved	mg/L	0.0000024	0.000147	0.100	0.0944	0.0967	0.0999	0.0850 to 0.115	94.4	70.0 to 130	2.41	20.0	
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0	
BD14409	Calcium, Dissolved	mg/L	-0.0108	0.152	5.00	50.4	47.9	4.81	4.25 to 5.75	116	70.0 to 130	5.09	20.0	
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0	
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0	
BD14409	Chromium, Dissolved	mg/L	-0.0000290	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0	
BD14409	Cobalt, Dissolved	mg/L	-0.0000171	0.000147	0.100	0.102	0.102	0.106	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0	
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0	
BD14409	Iron, Dissolved	mg/L	-0.00551	0.0176	0.2	0.191	0.195	0.192	0.170 to 0.230	95.5	70.0 to 130	2.07	20.0	
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 13:15

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BD14409

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD14409	Lead, Dissolved	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.102	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14409	Lithium, Dissolved	mg/L	0.000106	0.0154	0.200	0.210	0.210	0.204	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14409	Magnesium, Dissolved	mg/L	-0.0180	0.0462	5.00	27.2	27.2	5.20	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14409	Manganese, Dissolved	mg/L	0.0000084	0.00033	0.100	0.103	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14409	Molybdenum, Dissolved	mg/L	0.00142	0.0100	0.2	0.225	0.223	0.191	0.170 to 0.230	96.5	70.0 to 130	0.893	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14409	Potassium, Dissolved	mg/L	0.00702	0.367	10.0	11.6	11.6	10.1	8.50 to 11.5	97.8	70.0 to 130	0.00	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14409	Selenium, Dissolved	mg/L	0.0000454	0.00100	0.100	0.104	0.106	0.105	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14409	Silicon, Dissolved	mg/L	0.000121	0.0440	1.00	4.65	4.60	0.998	0.850 to 1.15	103	70.0 to 130	1.08	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14409	Sodium, Dissolved	mg/L	-0.00390	0.0880	5.00	12.5	12.5	5.28	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14410	Sulfate	mg/L	0.120	2.0	20.0	20.1	20.3	20.2	18.0 to 22.0	100	80.0 to 120	0.990	20.0
BD14409	Thallium, Dissolved	mg/L	-0.0000092	0.000147	0.100	0.0962	0.0993	0.0970	0.0850 to 0.115	96.2	70.0 to 130	3.17	20.0
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGASAP

Sample Date: 8/1/23 13:15

Customer ID:

Delivery Date: 8/2/23 10:12

Description: Gaston Ash Pond - MW-5

Laboratory ID Number: BD14409

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14409	Alkalinity	mg CaCO3/L					185	50.4	45.0 to 55.0			0.542	10.0
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gaston Ash Pond Equipment Blank-1

Location Code: WMWGASAPEB
Collected: 8/1/23 13:40
Customer ID:
Submittal Date: 8/2/23 10:13

Laboratory ID Number: BD14410

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/3/23 10:28	8/4/23 12:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/3/23 10:28	8/4/23 12:44		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	8/3/23 10:28	8/4/23 12:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/3/23 10:28	8/4/23 12:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/3/23 10:28	8/4/23 12:44		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	8/3/23 10:28	8/4/23 12:44		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	8/3/23 10:28	8/4/23 12:44		1	Not Detected	mg/L			
* Silicon, Total	8/3/23 10:28	8/4/23 12:44		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	8/3/23 10:28	8/4/23 12:44		1.015	Not Detected	mg/L	0.04060	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/3/23 10:28	8/3/23 11:47		1.015	0.000206	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/3/23 10:28	8/3/23 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ELH						
* Mercury, Total by CVAA	8/3/23 15:32	8/3/23 21:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	8/3/23 07:25	8/3/23 07:25		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	8/3/23 11:20	8/4/23 12:55		1	Not Detected	mg/L		25	U

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

Comments:

Certificate Of Analysis

Description: Gaston Ash Pond Equipment Blank-1

Location Code: WMWGAPEB
Collected: 8/1/23 13:40
Customer ID:
Submittal Date: 8/2/23 10:13

Laboratory ID Number: BD14410

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	8/2/23 22:44	8/2/23 22:44		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/3/23 11:55	8/3/23 11:55		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/3/23 14:49	8/3/23 14:49		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/10/23 15:36	8/10/23 15:36		1	Not Detected	mg/L	0.6	2	U

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

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 8/1/23 13:40

Customer ID:

Delivery Date: 8/2/23 10:13

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BD14410

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD14410	Aluminum, Total	mg/L	0.000502	0.0198	0.100	0.102	0.100	0.104	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD14410	Antimony, Total	mg/L	0.000401	0.00100	0.100	0.0933	0.0931	0.0970	0.0850 to 0.115	93.3	70.0 to 130	0.215	20.0
BD14410	Arsenic, Total	mg/L	0.0000024	0.000200	0.100	0.101	0.0998	0.0993	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD14410	Barium, Total	mg/L	0.0000290	0.00100	0.100	0.0979	0.0998	0.0992	0.0850 to 0.115	97.9	70.0 to 130	1.92	20.0
BD14410	Beryllium, Total	mg/L	0.0000296	0.000880	0.100	0.0982	0.0950	0.101	0.0850 to 0.115	98.2	70.0 to 130	3.31	20.0
BD14410	Boron, Total	mg/L	0.00220	0.0650	1.00	1.00	0.987	1.00	0.850 to 1.15	100	70.0 to 130	1.31	20.0
BD14410	Cadmium, Total	mg/L	0.0000003	0.000147	0.100	0.0971	0.0977	0.100	0.0850 to 0.115	97.1	70.0 to 130	0.616	20.0
BD14410	Calcium, Total	mg/L	-0.00237	0.152	5.00	5.12	5.09	5.19	4.25 to 5.75	102	70.0 to 130	0.588	20.0
BD14410	Chloride	mg/L	0.0361	1.00	10.0	10.2	9.89	10.1	9.00 to 11.0	102	80.0 to 120	3.09	20.0
BD14410	Chromium, Total	mg/L	-0.0000364	0.000440	0.100	0.0988	0.0968	0.0998	0.0850 to 0.115	98.6	70.0 to 130	2.04	20.0
BD14410	Cobalt, Total	mg/L	-0.0000194	0.000147	0.100	0.101	0.0990	0.102	0.0850 to 0.115	101	70.0 to 130	2.00	20.0
BD14410	Fluoride	mg/L	0.011	0.125	2.50	2.66	2.70	2.70	2.25 to 2.75	106	80.0 to 120	1.49	20.0
BD14410	Iron, Total	mg/L	-0.000551	0.0176	0.2	0.204	0.201	0.203	0.170 to 0.230	102	70.0 to 130	1.48	20.0
BD14410	Lead, Total	mg/L	0.0000079	0.000147	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD14410	Lithium, Total	mg/L	1.090E-05	0.0154	0.200	0.198	0.195	0.197	0.170 to 0.230	99.0	70.0 to 130	1.53	20.0
BD14410	Magnesium, Total	mg/L	-0.00153	0.0462	5.00	4.98	4.94	5.03	4.25 to 5.75	99.6	70.0 to 130	0.806	20.0
BD14410	Manganese, Total	mg/L	0.0000132	0.00033	0.100	0.100	0.0975	0.102	0.0850 to 0.115	100	70.0 to 130	2.53	20.0
BD14410	Mercury, Total by CVAA	mg/L	-6.000E-05	0.000500	0.004	0.00389	0.0039	0.00399	0.00340 to 0.00460	97.2	70.0 to 130	0.257	20.0
BD14410	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.204	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD14410	Potassium, Total	mg/L	-0.00213	0.367	10.0	9.90	9.86	10.0	8.50 to 11.5	99.0	70.0 to 130	0.405	20.0
BD14410	Selenium, Total	mg/L	0.0000647	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD14410	Silicon, Total	mg/L	-0.000894	0.0440	1.00	1.04	1.02	1.04	0.850 to 1.15	104	70.0 to 130	1.94	20.0
BD14410	Sodium, Total	mg/L	-0.00108	0.0880	5.00	4.91	4.89	4.97	4.25 to 5.75	98.2	70.0 to 130	0.408	20.0
BD14410	Sulfate	mg/L	0.120	2.0	20.0	20.1	20.3	20.2	18.0 to 22.0	100	80.0 to 120	0.990	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 8/1/23 13:40

Customer ID:

Delivery Date: 8/2/23 10:13

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BD14410

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD14410	Thallium, Total	mg/L	-0.0000124	0.000147	0.100	0.0961	0.0988	0.0998	0.0850 to 0.115	96.1	70.0 to 130	2.77	20.0
BD14410	Total Organic Carbon	mg/L	0.139	1.00	10.0	10.6	10.8	24.1		106	80.0 to 120	1.87	20.0

Comments:

Batch QC Summary

Customer Account: WMWGASAPEB

Sample Date: 8/1/23 13:40

Customer ID:

Delivery Date: 8/2/23 10:13

Description: Gaston Ash Pond Equipment Blank-1

Laboratory ID Number: BD14410

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD14410	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.92	-0.018	2.09	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BD14409	Solids, Dissolved	mg/L	1.00	25.0			229	54.0	40.0 to 60.0			0.438	10.0

Comments:

Definitions

Project Number: WMWGASAP_1416

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
 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	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments Relinquished to biology lab 07192023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-42	07/18/2023	13:20	6	Groundwater		BD13310	<input checked="" type="checkbox"/>
MW-38	07/19/2023	08:42	6	Groundwater		BD13311	<input checked="" type="checkbox"/>
MW-41	07/19/2023	09:36	6	Groundwater		BD13312	<input checked="" type="checkbox"/>
MW-40	07/19/2023	10:35	6	Groundwater		BD13313	<input checked="" type="checkbox"/>
MW-39	07/19/2023	11:36	6	Groundwater		BD13314	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Paul Cotton</i>	07/20/2023 08:57

SmarTroll ID	7586-41446-5-5	Cooler Temp	1.3 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-9	07/18/2023	09:13	6	Groundwater		BD13322	<input checked="" type="checkbox"/>
MW-10	07/18/2023	11:00	6	Groundwater		BD13323	<input checked="" type="checkbox"/>
MW-12	07/18/2023	13:35	6	Groundwater		BD13324	<input checked="" type="checkbox"/>
MW-8	07/19/2023	09:10	6	Groundwater		BD13325	<input checked="" type="checkbox"/>
MW-13	07/19/2023	11:20	6	Groundwater		BD13326	<input checked="" type="checkbox"/>
MW-31VR	07/19/2023	12:55	6	Groundwater		BD13327	<input checked="" type="checkbox"/>
MW-30H	07/19/2023	14:40	6	Groundwater		BD13328	<input checked="" type="checkbox"/>
MW-30H Dup	07/19/2023	14:40	6	Sample Duplicate		BD13329	<input checked="" type="checkbox"/>
FB-1	07/19/2023	15:45	5	Field Blank		BD13330	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Brian Cotton</i>	07/20/2023 08:41

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.3 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-19	07/18/2023	13:17	6	Groundwater		BD13315	<input checked="" type="checkbox"/>
MW-16V	07/19/2023	08:36	6	Groundwater		BD13316	<input checked="" type="checkbox"/>
MW-16	07/19/2023	09:41	6	Groundwater		BD13317	<input checked="" type="checkbox"/>
MW-16 dup	07/19/2023	09:41	6	Sample Duplicate		BD13318	<input checked="" type="checkbox"/>
MW-28H	07/19/2023	10:43	6	Groundwater		BD13319	<input checked="" type="checkbox"/>
MW-29H	07/19/2023	13:00	6	Groundwater		BD13320	<input checked="" type="checkbox"/>
FB-2	07/19/2023	14:05	5	Field Blank		BD13321	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>Rubie Cator</i>	07/20/2023 08:50

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.5 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-17V	07/24/2023	13:10	6	Groundwater		BD13829	<input checked="" type="checkbox"/>
MW-17SV	07/24/2023	14:29	6	Groundwater		BD13830	<input checked="" type="checkbox"/>
MW-17SV dup	07/24/2023	14:29	6	Sample Duplicate		BD13831	<input checked="" type="checkbox"/>
FB-4	07/24/2023	15:00	5	Field Blank		BD13832	<input checked="" type="checkbox"/>
MW-17	07/25/2023	08:10	6	Groundwater		BD13833	<input checked="" type="checkbox"/>
MW-18	07/25/2023	09:08	6	Groundwater		BD13834	<input checked="" type="checkbox"/>
MW-20V	07/25/2023	10:18	6	Groundwater		BD13835	<input checked="" type="checkbox"/>
MW-20SV	07/25/2023	11:48	6	Groundwater		BD13836	<input checked="" type="checkbox"/>
MW-20SV dup	07/25/2023	11:48	6	Sample Duplicate		BD13837	<input checked="" type="checkbox"/>
MW-20	07/25/2023	12:39	6	Groundwater		BD13838	<input checked="" type="checkbox"/>
MW-4	07/25/2023	15:59	6	Groundwater		BD13839	<input checked="" type="checkbox"/>
MW-32V	07/26/2023	10:40	6	Groundwater		BD13840	<input checked="" type="checkbox"/>
MW-37V	07/26/2023	12:00	6	Groundwater		BD13841	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Melinda Gentry</i>	<i>Bush</i>	07/27/2023 08:28

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.1 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab


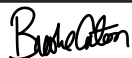
Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By: Greg Dyer
		Location	Gaston Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-33V	07/24/2023	13:17	6	Groundwater		BD13842	<input checked="" type="checkbox"/>
MW-36V	07/24/2023	15:25	6	Groundwater		BD13843	<input checked="" type="checkbox"/>
MW-26	07/25/2023	10:10	6	Groundwater		BD13844	<input checked="" type="checkbox"/>
MW-27	07/25/2023	11:38	6	Groundwater		BD13845	<input checked="" type="checkbox"/>
MW-27 Dup	07/25/2023	11:38	6	Sample Duplicate		BD13846	<input checked="" type="checkbox"/>
MW-23S	07/25/2023	13:05	6	Groundwater		BD13847	<input checked="" type="checkbox"/>
MW-23D	07/25/2023	14:25	6	Groundwater		BD13848	<input checked="" type="checkbox"/>
MW-7	07/26/2023	09:45	6	Groundwater		BD13849	<input checked="" type="checkbox"/>
MW-6	07/26/2023	11:00	6	Groundwater		BD13850	<input checked="" type="checkbox"/>
MW-21	07/26/2023	12:00	6	Groundwater		BD13851	<input checked="" type="checkbox"/>
MW-14	07/26/2023	12:55	6	Groundwater		BD13852	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		07/27/2023 08:29

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.8 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: Relinquishing to secure lab building 8 on 08/01/2023 @ 1630.
 Moved date/time to comments section for receipt time to be used in Date/Time section by signatures. BC 08/02/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-3	07/31/2023	16:14	6	Groundwater		BD14401	<input checked="" type="checkbox"/>
MW-34V	08/01/2023	09:06	6	Groundwater		BD14402	<input checked="" type="checkbox"/>
FB-3	08/01/2023	10:15	5	Field Blank		BD14403	<input checked="" type="checkbox"/>
MW-35V	08/01/2023	10:37	6	Groundwater		BD14404	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.08.02 10:06:14 -05'00'</small>	08/02/2023 10:06

SmarTroll ID	7586-41443-5-2	Cooler Temp	0.8 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-11	07/31/2023	13:07	6	Groundwater		BD14405	<input checked="" type="checkbox"/>
FB-5	07/31/2023	13:45	5	Field Blank		BD14406	<input checked="" type="checkbox"/>
MW-15R	08/01/2023	10:33	6	Groundwater		BD14407	<input checked="" type="checkbox"/>
MW-22	08/01/2023	11:45	6	Groundwater		BD14408	<input checked="" type="checkbox"/>
MW-5	08/01/2023	13:15	6	Groundwater		BD14409	<input checked="" type="checkbox"/>
EB-1	08/01/2023	13:40	5	Equipment Blank		BD14410	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		08/02/2023 09:36

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.7 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		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 MS/MSD collected @ MW-38; Relinquished to biology lab 07192023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-42	07/18/2023	13:20	1	Groundwater		BD13331	<input checked="" type="checkbox"/>
MW-38	07/19/2023	08:42	3	Groundwater		BD13332	<input checked="" type="checkbox"/>
MW-41	07/19/2023	09:36	1	Groundwater		BD13333	<input checked="" type="checkbox"/>
MW-40	07/19/2023	10:35	1	Groundwater		BD13334	<input checked="" type="checkbox"/>
MW-39	07/19/2023	11:36	1	Groundwater		BD13335	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>		

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-9	07/18/2023	09:13	1	Groundwater		BD13343	<input checked="" type="checkbox"/>
MW-10	07/18/2023	11:00	1	Groundwater		BD13344	<input checked="" type="checkbox"/>
MW-12	07/18/2023	13:35	1	Groundwater		BD13345	<input checked="" type="checkbox"/>
MW-8	07/19/2023	09:10	1	Groundwater		BD13346	<input checked="" type="checkbox"/>
MW-13	07/19/2023	11:20	1	Groundwater		BD13347	<input checked="" type="checkbox"/>
MW-31VR	07/19/2023	12:55	1	Groundwater		BD13348	<input checked="" type="checkbox"/>
MW-30H	07/19/2023	14:40	1	Groundwater		BD13349	<input checked="" type="checkbox"/>
MW-30H Dup	07/19/2023	14:40	1	Sample Duplicate		BD13350	<input checked="" type="checkbox"/>
FB-1	07/19/2023	15:45	1	Field Blank		BD13351	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		07/20/2023 08:41

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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	pH Check
MW-19	07/18/2023	13:17	1	Groundwater		BD13336	<input checked="" type="checkbox"/>
MW-16V	07/19/2023	08:36	1	Groundwater		BD13337	<input checked="" type="checkbox"/>
MW-16	07/19/2023	09:41	1	Groundwater		BD13338	<input checked="" type="checkbox"/>
MW-16 dup	07/19/2023	09:41	1	Sample Duplicate		BD13339	<input checked="" type="checkbox"/>
MW-28H	07/19/2023	10:43	1	Groundwater		BD13340	<input checked="" type="checkbox"/>
MW-29H	07/19/2023	13:00	1	Groundwater		BD13341	<input checked="" type="checkbox"/>
FB-2	07/19/2023	14:05	1	Field Blank		BD13342	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>Dustin Brooks</i>	07/20/2023 08:50

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		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-17

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-17V	07/24/2023	13:10	1	Groundwater		BD13853	<input checked="" type="checkbox"/>
MW-17SV	07/24/2023	14:29	1	Groundwater		BD13854	<input checked="" type="checkbox"/>
MW-17SV dup	07/24/2023	14:29	1	Sample Duplicate		BD13855	<input checked="" type="checkbox"/>
FB-4	07/24/2023	15:00	1	Field Blank		BD13856	<input checked="" type="checkbox"/>
MW-17	07/25/2023	08:10	3	Groundwater		BD13857	<input checked="" type="checkbox"/>
MW-18	07/25/2023	09:08	1	Groundwater		BD13858	<input checked="" type="checkbox"/>
MW-20V	07/25/2023	10:18	1	Groundwater		BD13859	<input checked="" type="checkbox"/>
MW-20SV	07/25/2023	11:48	1	Groundwater		BD13860	<input checked="" type="checkbox"/>
MW-20SV dup	07/25/2023	11:48	1	Sample Duplicate		BD13861	<input checked="" type="checkbox"/>
MW-20	07/25/2023	12:39	1	Groundwater		BD13862	<input checked="" type="checkbox"/>
MW-4	07/25/2023	15:59	1	Groundwater		BD13863	<input checked="" type="checkbox"/>
MW-32V	07/26/2023	10:40	1	Groundwater		BD13864	<input checked="" type="checkbox"/>
MW-37V	07/26/2023	12:00	1	Groundwater		BD13865	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>Bushy Carter</i>	07/27/2023 08:29

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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 @ MW-6

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-33V	07/24/2023	13:17	1	Groundwater		BD13866	<input checked="" type="checkbox"/>
MW-36V	07/24/2023	15:25	1	Groundwater		BD13867	<input checked="" type="checkbox"/>
MW-26	07/25/2023	10:10	1	Groundwater		BD13868	<input checked="" type="checkbox"/>
MW-27	07/25/2023	11:38	1	Groundwater		BD13869	<input checked="" type="checkbox"/>
MW-27 Dup	07/25/2023	11:38	1	Sample Duplicate		BD13870	<input checked="" type="checkbox"/>
MW-23S	07/25/2023	13:05	1	Groundwater		BD13871	<input checked="" type="checkbox"/>
MW-23D	07/25/2023	14:25	1	Groundwater		BD13872	<input checked="" type="checkbox"/>
MW-7	07/26/2023	09:45	1	Groundwater		BD13873	<input checked="" type="checkbox"/>
MW-6	07/26/2023	11:00	3	Groundwater		BD13874	<input checked="" type="checkbox"/>
MW-21	07/26/2023	12:00	1	Groundwater		BD13875	<input checked="" type="checkbox"/>
MW-14	07/26/2023	12:55	1	Groundwater		BD13876	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Burdette</i>	07/27/2023 08:29

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
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 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



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
		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: Relinquishing to secure lab building 8 on 08/01/2023 @ 1630.
Moved date/time to comments section for receipt time to be used in Date/Time section by signatures. BC 08/02/2023

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-3	07/31/2023	16:14	1	Groundwater		BD14411	<input checked="" type="checkbox"/>
MW-34V	08/01/2023	09:06	1	Groundwater		BD14412	<input checked="" type="checkbox"/>
FB-3	08/01/2023	10:15	1	Field Blank		BD14413	<input checked="" type="checkbox"/>
MW-35V	08/01/2023	10:37	1	Groundwater		BD14414	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.08.02 10:08:19 -05'00'</small>	08/02/2023 10:08

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1416	pH Strip ID	10620-61242-10-8

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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

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-11	07/31/2023	13:07	1	Groundwater		BD14415	<input checked="" type="checkbox"/>
FB-5	07/31/2023	13:45	1	Field Blank		BD14416	<input checked="" type="checkbox"/>
MW-15R	08/01/2023	10:33	1	Groundwater		BD14417	<input checked="" type="checkbox"/>
MW-22	08/01/2023	11:45	1	Groundwater		BD14418	<input checked="" type="checkbox"/>
MW-5	08/01/2023	13:15	1	Groundwater		BD14419	<input checked="" type="checkbox"/>
EB-1	08/01/2023	13:40	1	Equipment Blank		BD14420	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		08/02/2023 09:36

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1416	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
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September 20, 2023

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWBARAP_1417
Pace Project No.: 30616118

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on August 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWBARAP_1417
Pace Project No.: 30616118

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWBARAP_1417
Pace Project No.: 30616118

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30616118001	BD15023 MW-8	Water	08/07/23 14:30	08/17/23 10:00
30616118002	BD15024 MW-8V	Water	08/07/23 17:40	08/17/23 10:00
30616118003	BD15025 MW-8V Diss	Water	08/07/23 17:40	08/17/23 10:00
30616118004	BD15026 MW-15V	Water	08/08/23 09:13	08/17/23 10:00
30616118005	BD15026 MW-15V MS	Water	08/08/23 09:13	08/17/23 10:00
30616118006	BD15026 MW-15V MSD	Water	08/08/23 09:13	08/17/23 10:00
30616118007	BD15027 MW-22H	Water	08/08/23 10:30	08/17/23 10:00
30616118008	BD15028 FB-3	Water	08/08/23 11:20	08/17/23 10:00
30616118009	BD15029 MW-15	Water	08/08/23 11:40	08/17/23 10:00
30616118010	BD15030 MW-24H	Water	08/08/23 12:50	08/17/23 10:00
30616118011	BD15031 MW-16	Water	08/08/23 13:55	08/17/23 10:00
30616118012	BD15032 MW-16 Dup	Water	08/08/23 13:55	08/17/23 10:00
30616118013	BD15033 MW-2	Water	08/08/23 14:57	08/17/23 10:00
30616118014	BD15034 MW-11	Water	08/07/23 11:05	08/17/23 10:00
30616118015	BD15034 MW-11 MS	Water	08/07/23 11:05	08/17/23 10:00
30616118016	BD15034 MW-11 MSD	Water	08/07/23 11:05	08/17/23 10:00
30616118017	BD15035 FB-1	Water	08/07/23 11:30	08/17/23 10:00
30616118018	BD15036 MW-10	Water	08/07/23 12:05	08/17/23 10:00
30616118019	BD15037 MW-10 Dup	Water	08/07/23 12:05	08/17/23 10:00
30616118020	BD15038 MW-10V	Water	08/07/23 13:04	08/17/23 10:00
30616118021	BD15039 MW-9	Water	08/07/23 14:00	08/17/23 10:00
30616118022	BD15040 MW-16V	Water	08/07/23 15:20	08/17/23 10:00
30616118023	BD15041 MW-18H	Water	08/08/23 07:51	08/17/23 10:00
30616118024	BD15042 MW-19H	Water	08/08/23 08:58	08/17/23 10:00
30616118025	BD15043 MW-20H	Water	08/08/23 09:56	08/17/23 10:00
30616118026	BD15044 MW-20V	Water	08/08/23 10:49	08/17/23 10:00
30616118027	BD15045 MW-12	Water	08/08/23 11:50	08/17/23 10:00
30616118028	BD15046 MW-12V	Water	08/08/23 12:38	08/17/23 10:00
30616118029	BD15047 MW-1	Water	08/08/23 13:50	08/17/23 10:00
30616118030	BD15048 MW-1 Dup	Water	08/08/23 13:50	08/17/23 10:00
30616118031	BD15049 MW-7V	Water	08/07/23 12:31	08/17/23 10:00
30616118032	BD15050 MW-7	Water	08/07/23 13:30	08/17/23 10:00
30616118033	BD15051 MW-5V	Water	08/07/23 14:55	08/17/23 10:00
30616118034	BD15052 MW-5	Water	08/07/23 15:52	08/17/23 10:00
30616118035	BD15052 MW-5 MS	Water	08/07/23 15:52	08/17/23 10:00
30616118036	BD15052 MW-5 MSD	Water	08/07/23 15:52	08/17/23 10:00
30616118037	BD15053 FB-2	Water	08/07/23 16:20	08/17/23 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWBARAP_1417
Pace Project No.: 30616118

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30616118038	BD15054 MW-25V	Water	08/08/23 08:55	08/17/23 10:00
30616118039	BD15055 MW-25H	Water	08/08/23 09:58	08/17/23 10:00
30616118040	BD15056 MW-25H Dup	Water	08/08/23 09:58	08/17/23 10:00
30616118041	BD15057 MW-17V	Water	08/08/23 12:15	08/17/23 10:00
30616118042	BD15058 MW-17H	Water	08/08/23 13:00	08/17/23 10:00
30616118043	BD15059 MW-23V	Water	08/08/23 14:08	08/17/23 10:00
30616118044	BD15060 MW-23H	Water	08/08/23 15:10	08/17/23 10:00
30616118045	BD15139 MW-1V	Water	08/09/23 10:14	08/17/23 10:00
30616118046	BD15140 FB-4	Water	08/09/23 10:35	08/17/23 10:00
30616118047	BD15141 MW-3	Water	08/09/23 11:48	08/17/23 10:00
30616118048	BD15142 MW-4	Water	08/09/23 12:38	08/17/23 10:00
30616118049	BD15143 MW-6	Water	08/09/23 13:45	08/17/23 10:00
30616118050	BD15144 MW-14V	Water	08/09/23 09:25	08/17/23 10:00
30616118051	BD15145 MW-14	Water	08/09/23 10:27	08/17/23 10:00
30616118052	BD15146 MW-13V	Water	08/09/23 11:45	08/17/23 10:00
30616118053	BD15147 MW-13	Water	08/09/23 12:45	08/17/23 10:00
30616118054	BD15148 EB-1	Water	08/09/23 13:20	08/17/23 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30616118001	BD15023 MW-8	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118002	BD15024 MW-8V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118003	BD15025 MW-8V Diss	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118004	BD15026 MW-15V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118005	BD15026 MW-15V MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30616118006	BD15026 MW-15V MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30616118007	BD15027 MW-22H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118008	BD15028 FB-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118009	BD15029 MW-15	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118010	BD15030 MW-24H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118011	BD15031 MW-16	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118012	BD15032 MW-16 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118013	BD15033 MW-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30616118014	BD15034 MW-11	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118015	BD15034 MW-11 MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30616118016	BD15034 MW-11 MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30616118017	BD15035 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118018	BD15036 MW-10	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118019	BD15037 MW-10 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118020	BD15038 MW-10V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118021	BD15039 MW-9	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118022	BD15040 MW-16V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118023	BD15041 MW-18H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118024	BD15042 MW-19H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118025	BD15043 MW-20H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118026	BD15044 MW-20V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30616118027	BD15045 MW-12	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118028	BD15046 MW-12V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118029	BD15047 MW-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118030	BD15048 MW-1 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118031	BD15049 MW-7V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118032	BD15050 MW-7	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118033	BD15051 MW-5V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118034	BD15052 MW-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118035	BD15052 MW-5 MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30616118036	BD15052 MW-5 MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30616118037	BD15053 FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118038	BD15054 MW-25V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118039	BD15055 MW-25H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30616118040	BD15056 MW-25H Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30616118041	BD15057 MW-17V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118042	BD15058 MW-17H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118043	BD15059 MW-23V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118044	BD15060 MW-23H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118045	BD15139 MW-1V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118046	BD15140 FB-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118047	BD15141 MW-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118048	BD15142 MW-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118049	BD15143 MW-6	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118050	BD15144 MW-14V	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118051	BD15145 MW-14	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30616118052	BD15146 MW-13V	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30616118053	BD15147 MW-13	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30616118054	BD15148 EB-1	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: WMWBARAP_1417
Pace Project No.: 30616118

Method: EPA 9315
Description: 9315 Total Radium
Client: Alabama Power
Date: September 20, 2023

General Information:

54 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:

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PROJECT NARRATIVE

Project: WMWBARAP_1417
Pace Project No.: 30616118

Method: EPA 9320
Description: 9320 Radium 228
Client: Alabama Power
Date: September 20, 2023

General Information:

54 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:

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PROJECT NARRATIVE

Project: WMWBARAP_1417
Pace Project No.: 30616118

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Alabama Power
Date: September 20, 2023

General Information:

48 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.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.376U ± 0.258 (0.424) C:96% T:NA	pCi/L	09/15/23 11:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.413U ± 0.316 (0.615) C:71% T:96%	pCi/L	09/08/23 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.789U ± 0.574 (1.04)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15024 MW-8V **Lab ID: 30616118002** Collected: 08/07/23 17:40 Received: 08/17/23 10:00 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	0.454 ± 0.272 (0.425) C:96% T:NA	pCi/L	09/15/23 11:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.342U ± 0.440 (0.939) C:73% T:85%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.796U ± 0.712 (1.36)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15025 MW-8V Diss **Lab ID: 30616118003** Collected: 08/07/23 17:40 Received: 08/17/23 10:00 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	0.476U ± 0.296 (0.512) C:83% T:NA	pCi/L	09/15/23 11:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.515U ± 0.409 (0.815) C:79% T:84%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.991U ± 0.705 (1.33)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15026 MW-15V **Lab ID: 30616118004** Collected: 08/08/23 09:13 Received: 08/17/23 10:00 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	0.576 ± 0.330 (0.478) C:94% T:NA	pCi/L	09/15/23 11:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.47 ± 0.526 (0.789) C:76% T:95%	pCi/L	09/08/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.05 ± 0.856 (1.27)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15026 MW-15V MS **Lab ID: 30616118005** Collected: 08/08/23 09:13 Received: 08/17/23 10:00 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	94.55 %REC ± NA (NA) C:NA T:NA	pCi/L	09/15/23 11:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	76.86 %REC ± NA (NA) C:NA T:NA	pCi/L	09/08/23 14:58	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15026 MW-15V MSD **Lab ID:** 30616118006 Collected: 08/08/23 09:13 Received: 08/17/23 10:00 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	94.59 %REC 0.04RPD ± NA (NA) C:NA T:NA	pCi/L	09/15/23 11:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	78.62 %REC 2.27RPD ± NA (NA) C:NA T:NA	pCi/L	09/08/23 14:58	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.350U ± 0.237 (0.392) C:88% T:NA	pCi/L	09/15/23 11:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.298U ± 0.319 (0.660) C:75% T:90%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.648U ± 0.556 (1.05)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.182U ± 0.159 (0.280) C:94% T:NA	pCi/L	09/15/23 11:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.359U ± 0.305 (0.606) C:78% T:90%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.541U ± 0.464 (0.886)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.463 ± 0.256 (0.373) C:89% T:NA	pCi/L	09/15/23 11:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.458U ± 0.325 (0.620) C:75% T:94%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.921U ± 0.581 (0.993)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.602 ± 0.280 (0.364) C:88% T:NA	pCi/L	09/15/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.628U ± 0.376 (0.691) C:70% T:93%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.23 ± 0.656 (1.06)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.500U ± 0.344 (0.591) C:74% T:NA	pCi/L	09/15/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.729 ± 0.346 (0.571) C:78% T:90%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.23 ± 0.690 (1.16)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.444 ± 0.271 (0.431) C:88% T:NA	pCi/L	09/15/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.708 ± 0.381 (0.673) C:73% T:90%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.15 ± 0.652 (1.10)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.274U ± 0.313 (0.648) C:85% T:NA	pCi/L	09/15/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.223U ± 0.316 (0.679) C:77% T:92%	pCi/L	09/08/23 14:58	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.497U ± 0.629 (1.33)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.538 ± 0.281 (0.412) C:85% T:NA	pCi/L	09/15/23 13:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.578U ± 0.341 (0.621) C:83% T:92%	pCi/L	09/11/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.12 ± 0.622 (1.03)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15034 MW-11 MS **Lab ID: 30616118015** Collected: 08/07/23 11:05 Received: 08/17/23 10:00 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	99.60 %REC ± NA (NA) C:NA T:NA	pCi/L	09/15/23 13:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	82.03 %REC ± NA (NA) C:NA T:NA	pCi/L	09/11/23 11:45	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15034 MW-11 MSD **Lab ID: 30616118016** Collected: 08/07/23 11:05 Received: 08/17/23 10:00 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	110.29 %REC 10.19RPD ± NA (NA) C:NA T:NA	pCi/L	09/15/23 13:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	81.87 %REC 0.19RPD ± NA (NA) C:NA T:NA	pCi/L	09/11/23 11:45	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.212U ± 0.232 (0.470) C:69% T:NA	pCi/L	09/15/23 13:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.692U ± 0.428 (0.817) C:81% T:88%	pCi/L	09/08/23 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.904U ± 0.660 (1.29)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15036 MW-10 **Lab ID: 30616118018** Collected: 08/07/23 12:05 Received: 08/17/23 10:00 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	0.429 ± 0.240 (0.364) C:86% T:NA	pCi/L	09/15/23 13:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.911 ± 0.449 (0.792) C:79% T:86%	pCi/L	09/08/23 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.34 ± 0.689 (1.16)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.462 ± 0.277 (0.422) C:74% T:NA	pCi/L	09/15/23 13:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.09 ± 0.475 (0.793) C:78% T:89%	pCi/L	09/08/23 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.55 ± 0.752 (1.22)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.434U ± 0.272 (0.444) C:81% T:NA	pCi/L	09/15/23 13:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.20 ± 0.480 (0.762) C:80% T:93%	pCi/L	09/08/23 14:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.63 ± 0.752 (1.21)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.439U ± 0.273 (0.446) C:81% T:NA	pCi/L	09/15/23 13:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.139U ± 0.298 (0.659) C:83% T:92%	pCi/L	09/11/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.578U ± 0.571 (1.11)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15040 MW-16V **Lab ID: 30616118022** Collected: 08/07/23 15:20 Received: 08/17/23 10:00 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	0.400U ± 0.265 (0.433) C:69% T:NA	pCi/L	09/15/23 13:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.278U ± 0.359 (0.763) C:85% T:81%	pCi/L	09/11/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.678U ± 0.624 (1.20)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.262U ± 0.209 (0.373) C:86% T:NA	pCi/L	09/15/23 13:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.121U ± 0.338 (0.820) C:83% T:80%	pCi/L	09/11/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.262U ± 0.547 (1.19)	pCi/L	09/15/23 16:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15042 MW-19H **Lab ID: 30616118024** Collected: 08/08/23 08:58 Received: 08/17/23 10:00 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	0.404U ± 0.260 (0.431) C:91% T:NA	pCi/L	09/15/23 13:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.232U ± 0.314 (0.669) C:82% T:91%	pCi/L	09/11/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.636U ± 0.574 (1.10)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15043 MW-20H **Lab ID: 30616118025** Collected: 08/08/23 09:56 Received: 08/17/23 10:00 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	0.285U ± 0.245 (0.456) C:70% T:NA	pCi/L	09/15/23 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.967 ± 0.395 (0.618) C:81% T:99%	pCi/L	09/11/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.25 ± 0.640 (1.07)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15044 MW-20V **Lab ID: 30616118026** Collected: 08/08/23 10:49 Received: 08/17/23 10:00 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	1.44 ± 0.432 (0.389) C:87% T:NA	pCi/L	09/15/23 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.01 ± 0.585 (0.643) C:82% T:82%	pCi/L	09/11/23 11:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.45 ± 1.02 (1.03)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.686 ± 0.307 (0.381) C:82% T:NA	pCi/L	09/15/23 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.520U ± 0.343 (0.643) C:78% T:92%	pCi/L	09/11/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.21 ± 0.650 (1.02)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.382 ± 0.238 (0.379) C:87% T:NA	pCi/L	09/15/23 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0403U ± 0.296 (0.682) C:82% T:87%	pCi/L	09/11/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.422U ± 0.534 (1.06)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.431 ± 0.215 (0.264) C:97% T:NA	pCi/L	09/15/23 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.17 ± 0.422 (0.601) C:80% T:97%	pCi/L	09/11/23 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.60 ± 0.637 (0.865)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15048 MW-1 Dup **Lab ID: 30616118030** Collected: 08/08/23 13:50 Received: 08/17/23 10:00 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	0.902 ± 0.334 (0.349) C:81% T:NA	pCi/L	09/15/23 13:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.863 ± 0.414 (0.683) C:76% T:89%	pCi/L	09/11/23 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.77 ± 0.748 (1.03)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15049 MW-7V **Lab ID: 30616118031** Collected: 08/07/23 12:31 Received: 08/17/23 10:00 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	0.101U ± 0.165 (0.369) C:85% T:NA	pCi/L	09/15/23 13:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0631U ± 0.260 (0.595) C:85% T:87%	pCi/L	09/11/23 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.164U ± 0.425 (0.964)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15050 MW-7 **Lab ID: 30616118032** Collected: 08/07/23 13:30 Received: 08/17/23 10:00 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	0.412 ± 0.237 (0.356) C:90% T:NA	pCi/L	09/15/23 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.414U ± 0.332 (0.660) C:81% T:95%	pCi/L	09/11/23 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.826U ± 0.569 (1.02)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15051 MW-5V **Lab ID: 30616118033** Collected: 08/07/23 14:55 Received: 08/17/23 10:00 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	0.198U ± 0.182 (0.338) C:75% T:NA	pCi/L	09/15/23 13:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0875U ± 0.249 (0.609) C:82% T:93%	pCi/L	09/11/23 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.198U ± 0.431 (0.947)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.263U ± 0.207 (0.373) C:87% T:NA	pCi/L	09/15/23 15:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.276U ± 0.359 (0.756) C:66% T:93%	pCi/L	09/11/23 15:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.539U ± 0.566 (1.13)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	113.26 %REC ± NA (NA) C:NA T:NA	pCi/L	09/15/23 15:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	82.93 %REC ± NA (NA) C:NA T:NA	pCi/L	09/11/23 15:09	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15052 MW-5 MSD **Lab ID: 30616118036** Collected: 08/07/23 15:52 Received: 08/17/23 10:00 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	122.33 %REC 7.70RPD ± NA (NA) C:NA T:NA	pCi/L	09/15/23 15:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	84.38 %REC 1.74RPD ± NA (NA) C:NA T:NA	pCi/L	09/11/23 15:09	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD15053 FB-2 Lab ID: 30616118037 Collected: 08/07/23 16:20 Received: 08/17/23 10:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.452 ± 0.272 (0.413) C:77% T:NA	pCi/L	09/15/23 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.389U ± 0.381 (0.783) C:80% T:78%	pCi/L	09/11/23 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.841U ± 0.653 (1.20)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15054 MW-25V **Lab ID: 30616118038** Collected: 08/08/23 08:55 Received: 08/17/23 10:00 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	0.155U ± 0.174 (0.352) C:89% T:NA	pCi/L	09/15/23 13:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.582U ± 0.357 (0.658) C:83% T:86%	pCi/L	09/11/23 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.737U ± 0.531 (1.01)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15055 MW-25H **Lab ID: 30616118039** Collected: 08/08/23 09:58 Received: 08/17/23 10:00 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	0.112U ± 0.161 (0.349) C:93% T:NA	pCi/L	09/15/23 13:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.289U ± 0.287 (0.586) C:82% T:90%	pCi/L	09/11/23 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.401U ± 0.448 (0.935)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15056 MW-25H Dup **Lab ID:** 30616118040 Collected: 08/08/23 09:58 Received: 08/17/23 10:00 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	0.355 ± 0.230 (0.340) C:77% T:NA	pCi/L	09/15/23 13:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.238U ± 0.266 (0.552) C:83% T:89%	pCi/L	09/11/23 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.593U ± 0.496 (0.892)	pCi/L	09/15/23 16:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	2.11 ± 0.567 (0.399) C:81% T:NA	pCi/L	09/15/23 13:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.53 ± 0.604 (0.888) C:66% T:79%	pCi/L	09/11/23 15:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	3.64 ± 1.17 (1.29)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.500 ± 0.257 (0.358) C:80% T:NA	pCi/L	09/15/23 15:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.398U ± 0.388 (0.792) C:68% T:95%	pCi/L	09/11/23 15:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.898U ± 0.645 (1.15)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.16 ± 0.413 (0.452) C:86% T:NA	pCi/L	09/15/23 15:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.739U ± 0.495 (0.935) C:66% T:83%	pCi/L	09/11/23 15:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.90 ± 0.908 (1.39)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.580 ± 0.291 (0.417) C:94% T:NA	pCi/L	09/15/23 15:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.284U ± 0.362 (0.760) C:62% T:95%	pCi/L	09/11/23 15:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.864U ± 0.653 (1.18)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.426 ± 0.242 (0.363) C:86% T:NA	pCi/L	09/15/23 15:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.150U ± 0.372 (0.823) C:70% T:83%	pCi/L	09/11/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.576U ± 0.614 (1.19)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0253U ± 0.143 (0.370) C:79% T:NA	pCi/L	09/15/23 15:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.203U ± 0.360 (0.781) C:73% T:91%	pCi/L	09/11/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.228U ± 0.503 (1.15)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD15141 MW-3 Lab ID: 30616118047 Collected: 08/09/23 11:48 Received: 08/17/23 10:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.203U ± 0.174 (0.310) C:92% T:NA	pCi/L	09/15/23 15:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.376U ± 0.331 (0.844) C:65% T:91%	pCi/L	09/11/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.203U ± 0.505 (1.15)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.520 ± 0.278 (0.430) C:88% T:NA	pCi/L	09/15/23 15:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.568U ± 0.430 (0.838) C:65% T:88%	pCi/L	09/11/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.09U ± 0.708 (1.27)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0103U ± 0.144 (0.382) C:82% T:NA	pCi/L	09/15/23 15:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.202U ± 0.380 (0.829) C:64% T:88%	pCi/L	09/11/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.212U ± 0.524 (1.21)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15144 MW-14V **Lab ID: 30616118050** Collected: 08/09/23 09:25 Received: 08/17/23 10:00 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	0.319U ± 0.212 (0.356) C:93% T:NA	pCi/L	09/15/23 15:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.261U ± 0.375 (0.800) C:65% T:88%	pCi/L	09/11/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.580U ± 0.587 (1.16)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Sample: BD15145 MW-14 **Lab ID: 30616118051** Collected: 08/09/23 10:27 Received: 08/17/23 10:00 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	0.356U ± 0.220 (0.360) C:98% T:NA	pCi/L	09/15/23 15:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.353U ± 0.369 (0.754) C:63% T:88%	pCi/L	09/11/23 15:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.709U ± 0.589 (1.11)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.512 ± 0.271 (0.361) C:85% T:NA	pCi/L	09/15/23 15:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.783U ± 0.487 (0.899) C:63% T:83%	pCi/L	09/11/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.30 ± 0.758 (1.26)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.364U ± 0.225 (0.365) C:98% T:NA	pCi/L	09/15/23 15:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.574U ± 0.447 (0.873) C:63% T:86%	pCi/L	09/11/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.938U ± 0.672 (1.24)	pCi/L	09/19/23 15:38	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BD15148 EB-1 Lab ID: 30616118054 Collected: 08/09/23 13:20 Received: 08/17/23 10:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.163U ± 0.181 (0.368) C:97% T:NA	pCi/L	09/15/23 15:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.429U ± 0.415 (0.846) C:67% T:89%	pCi/L	09/11/23 15:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.592U ± 0.596 (1.21)	pCi/L	09/19/23 15:38	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

QC Batch:	612796	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30616118034, 30616118035, 30616118036, 30616118044, 30616118045, 30616118046, 30616118047, 30616118048, 30616118049, 30616118050, 30616118051, 30616118052, 30616118053, 30616118054

METHOD BLANK:	2982880	Matrix:	Water
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Associated Lab Samples: 30616118034, 30616118035, 30616118036, 30616118044, 30616118045, 30616118046, 30616118047, 30616118048, 30616118049, 30616118050, 30616118051, 30616118052, 30616118053, 30616118054

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0701 ± 0.115 (0.256) C:84% T:NA	pCi/L	09/15/23 15:10	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

QC Batch:	612791	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30616118001, 30616118002, 30616118003, 30616118004, 30616118005, 30616118006, 30616118007, 30616118008, 30616118009, 30616118010, 30616118011, 30616118012, 30616118013, 30616118017, 30616118018, 30616118019, 30616118020, 30616118021, 30616118022, 30616118023

METHOD BLANK: 2982869 Matrix: Water

Associated Lab Samples: 30616118001, 30616118002, 30616118003, 30616118004, 30616118005, 30616118006, 30616118007, 30616118008, 30616118009, 30616118010, 30616118011, 30616118012, 30616118013, 30616118017, 30616118018, 30616118019, 30616118020, 30616118021, 30616118022, 30616118023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.198 ± 0.119 (0.169) C:96% T:NA	pCi/L	09/15/23 11:57	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

QC Batch:	611593	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30616118034, 30616118035, 30616118036, 30616118041, 30616118042, 30616118043, 30616118044, 30616118045, 30616118046, 30616118047, 30616118048, 30616118049, 30616118050, 30616118051, 30616118052, 30616118053, 30616118054

METHOD BLANK:	2976865	Matrix:	Water
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Associated Lab Samples: 30616118034, 30616118035, 30616118036, 30616118041, 30616118042, 30616118043, 30616118044, 30616118045, 30616118046, 30616118047, 30616118048, 30616118049, 30616118050, 30616118051, 30616118052, 30616118053, 30616118054

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.153 ± 0.337 (0.741) C:69% T:93%	pCi/L	09/11/23 15:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

QC Batch:	611591	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30616118001, 30616118002, 30616118003, 30616118004, 30616118005, 30616118006, 30616118007, 30616118008, 30616118009, 30616118010, 30616118011, 30616118012, 30616118013, 30616118017, 30616118018, 30616118019, 30616118020

METHOD BLANK: 2976859 Matrix: Water

Associated Lab Samples: 30616118001, 30616118002, 30616118003, 30616118004, 30616118005, 30616118006, 30616118007, 30616118008, 30616118009, 30616118010, 30616118011, 30616118012, 30616118013, 30616118017, 30616118018, 30616118019, 30616118020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.768 ± 0.332 (0.493) C:77% T:88%	pCi/L	09/08/23 14:59	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

QC Batch:	612792	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30616118014, 30616118015, 30616118016, 30616118024, 30616118025, 30616118026, 30616118027, 30616118028, 30616118029, 30616118030, 30616118031, 30616118032, 30616118033, 30616118037, 30616118038, 30616118039, 30616118040, 30616118041, 30616118042, 30616118043

METHOD BLANK: 2982870 Matrix: Water

Associated Lab Samples: 30616118014, 30616118015, 30616118016, 30616118024, 30616118025, 30616118026, 30616118027, 30616118028, 30616118029, 30616118030, 30616118031, 30616118032, 30616118033, 30616118037, 30616118038, 30616118039, 30616118040, 30616118041, 30616118042, 30616118043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0315 ± 0.0900 (0.218) C:90% T:NA	pCi/L	09/15/23 13:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1417
 Pace Project No.: 30616118

QC Batch:	611592	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30616118014, 30616118015, 30616118016, 30616118021, 30616118022, 30616118023, 30616118024, 30616118025, 30616118026, 30616118027, 30616118028, 30616118029, 30616118030, 30616118031, 30616118032, 30616118033, 30616118037, 30616118038, 30616118039, 30616118040

METHOD BLANK: 2976861 Matrix: Water

Associated Lab Samples: 30616118014, 30616118015, 30616118016, 30616118021, 30616118022, 30616118023, 30616118024, 30616118025, 30616118026, 30616118027, 30616118028, 30616118029, 30616118030, 30616118031, 30616118032, 30616118033, 30616118037, 30616118038, 30616118039, 30616118040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.706 ± 0.339 (0.562) C:83% T:94%	pCi/L	09/11/23 11:46	

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QUALIFIERS

Project: WMWBARAP_1417
Pace Project No.: 30616118

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30616118001	BD15023 MW-8	EPA 9315	612791		
30616118002	BD15024 MW-8V	EPA 9315	612791		
30616118003	BD15025 MW-8V Diss	EPA 9315	612791		
30616118004	BD15026 MW-15V	EPA 9315	612791		
30616118005	BD15026 MW-15V MS	EPA 9315	612791		
30616118006	BD15026 MW-15V MSD	EPA 9315	612791		
30616118007	BD15027 MW-22H	EPA 9315	612791		
30616118008	BD15028 FB-3	EPA 9315	612791		
30616118009	BD15029 MW-15	EPA 9315	612791		
30616118010	BD15030 MW-24H	EPA 9315	612791		
30616118011	BD15031 MW-16	EPA 9315	612791		
30616118012	BD15032 MW-16 Dup	EPA 9315	612791		
30616118013	BD15033 MW-2	EPA 9315	612791		
30616118014	BD15034 MW-11	EPA 9315	612792		
30616118015	BD15034 MW-11 MS	EPA 9315	612792		
30616118016	BD15034 MW-11 MSD	EPA 9315	612792		
30616118017	BD15035 FB-1	EPA 9315	612791		
30616118018	BD15036 MW-10	EPA 9315	612791		
30616118019	BD15037 MW-10 Dup	EPA 9315	612791		
30616118020	BD15038 MW-10V	EPA 9315	612791		
30616118021	BD15039 MW-9	EPA 9315	612791		
30616118022	BD15040 MW-16V	EPA 9315	612791		
30616118023	BD15041 MW-18H	EPA 9315	612791		
30616118024	BD15042 MW-19H	EPA 9315	612792		
30616118025	BD15043 MW-20H	EPA 9315	612792		
30616118026	BD15044 MW-20V	EPA 9315	612792		
30616118027	BD15045 MW-12	EPA 9315	612792		
30616118028	BD15046 MW-12V	EPA 9315	612792		
30616118029	BD15047 MW-1	EPA 9315	612792		
30616118030	BD15048 MW-1 Dup	EPA 9315	612792		
30616118031	BD15049 MW-7V	EPA 9315	612792		
30616118032	BD15050 MW-7	EPA 9315	612792		
30616118033	BD15051 MW-5V	EPA 9315	612792		
30616118034	BD15052 MW-5	EPA 9315	612796		
30616118035	BD15052 MW-5 MS	EPA 9315	612796		
30616118036	BD15052 MW-5 MSD	EPA 9315	612796		
30616118037	BD15053 FB-2	EPA 9315	612792		
30616118038	BD15054 MW-25V	EPA 9315	612792		
30616118039	BD15055 MW-25H	EPA 9315	612792		
30616118040	BD15056 MW-25H Dup	EPA 9315	612792		
30616118041	BD15057 MW-17V	EPA 9315	612792		
30616118042	BD15058 MW-17H	EPA 9315	612792		
30616118043	BD15059 MW-23V	EPA 9315	612792		
30616118044	BD15060 MW-23H	EPA 9315	612796		
30616118045	BD15139 MW-1V	EPA 9315	612796		
30616118046	BD15140 FB-4	EPA 9315	612796		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30616118047	BD15141 MW-3	EPA 9315	612796		
30616118048	BD15142 MW-4	EPA 9315	612796		
30616118049	BD15143 MW-6	EPA 9315	612796		
30616118050	BD15144 MW-14V	EPA 9315	612796		
30616118051	BD15145 MW-14	EPA 9315	612796		
30616118052	BD15146 MW-13V	EPA 9315	612796		
30616118053	BD15147 MW-13	EPA 9315	612796		
30616118054	BD15148 EB-1	EPA 9315	612796		
30616118001	BD15023 MW-8	EPA 9320	611591		
30616118002	BD15024 MW-8V	EPA 9320	611591		
30616118003	BD15025 MW-8V Diss	EPA 9320	611591		
30616118004	BD15026 MW-15V	EPA 9320	611591		
30616118005	BD15026 MW-15V MS	EPA 9320	611591		
30616118006	BD15026 MW-15V MSD	EPA 9320	611591		
30616118007	BD15027 MW-22H	EPA 9320	611591		
30616118008	BD15028 FB-3	EPA 9320	611591		
30616118009	BD15029 MW-15	EPA 9320	611591		
30616118010	BD15030 MW-24H	EPA 9320	611591		
30616118011	BD15031 MW-16	EPA 9320	611591		
30616118012	BD15032 MW-16 Dup	EPA 9320	611591		
30616118013	BD15033 MW-2	EPA 9320	611591		
30616118014	BD15034 MW-11	EPA 9320	611592		
30616118015	BD15034 MW-11 MS	EPA 9320	611592		
30616118016	BD15034 MW-11 MSD	EPA 9320	611592		
30616118017	BD15035 FB-1	EPA 9320	611591		
30616118018	BD15036 MW-10	EPA 9320	611591		
30616118019	BD15037 MW-10 Dup	EPA 9320	611591		
30616118020	BD15038 MW-10V	EPA 9320	611591		
30616118021	BD15039 MW-9	EPA 9320	611592		
30616118022	BD15040 MW-16V	EPA 9320	611592		
30616118023	BD15041 MW-18H	EPA 9320	611592		
30616118024	BD15042 MW-19H	EPA 9320	611592		
30616118025	BD15043 MW-20H	EPA 9320	611592		
30616118026	BD15044 MW-20V	EPA 9320	611592		
30616118027	BD15045 MW-12	EPA 9320	611592		
30616118028	BD15046 MW-12V	EPA 9320	611592		
30616118029	BD15047 MW-1	EPA 9320	611592		
30616118030	BD15048 MW-1 Dup	EPA 9320	611592		
30616118031	BD15049 MW-7V	EPA 9320	611592		
30616118032	BD15050 MW-7	EPA 9320	611592		
30616118033	BD15051 MW-5V	EPA 9320	611592		
30616118034	BD15052 MW-5	EPA 9320	611593		
30616118035	BD15052 MW-5 MS	EPA 9320	611593		
30616118036	BD15052 MW-5 MSD	EPA 9320	611593		
30616118037	BD15053 FB-2	EPA 9320	611592		
30616118038	BD15054 MW-25V	EPA 9320	611592		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30616118039	BD15055 MW-25H	EPA 9320	611592		
30616118040	BD15056 MW-25H Dup	EPA 9320	611592		
30616118041	BD15057 MW-17V	EPA 9320	611593		
30616118042	BD15058 MW-17H	EPA 9320	611593		
30616118043	BD15059 MW-23V	EPA 9320	611593		
30616118044	BD15060 MW-23H	EPA 9320	611593		
30616118045	BD15139 MW-1V	EPA 9320	611593		
30616118046	BD15140 FB-4	EPA 9320	611593		
30616118047	BD15141 MW-3	EPA 9320	611593		
30616118048	BD15142 MW-4	EPA 9320	611593		
30616118049	BD15143 MW-6	EPA 9320	611593		
30616118050	BD15144 MW-14V	EPA 9320	611593		
30616118051	BD15145 MW-14	EPA 9320	611593		
30616118052	BD15146 MW-13V	EPA 9320	611593		
30616118053	BD15147 MW-13	EPA 9320	611593		
30616118054	BD15148 EB-1	EPA 9320	611593		
30616118001	BD15023 MW-8	Total Radium Calculation	615910		
30616118002	BD15024 MW-8V	Total Radium Calculation	615910		
30616118003	BD15025 MW-8V Diss	Total Radium Calculation	615910		
30616118004	BD15026 MW-15V	Total Radium Calculation	615910		
30616118007	BD15027 MW-22H	Total Radium Calculation	615910		
30616118008	BD15028 FB-3	Total Radium Calculation	615910		
30616118009	BD15029 MW-15	Total Radium Calculation	615910		
30616118010	BD15030 MW-24H	Total Radium Calculation	615910		
30616118011	BD15031 MW-16	Total Radium Calculation	615910		
30616118012	BD15032 MW-16 Dup	Total Radium Calculation	615910		
30616118013	BD15033 MW-2	Total Radium Calculation	615910		
30616118014	BD15034 MW-11	Total Radium Calculation	615920		
30616118017	BD15035 FB-1	Total Radium Calculation	615910		
30616118018	BD15036 MW-10	Total Radium Calculation	615910		
30616118019	BD15037 MW-10 Dup	Total Radium Calculation	615910		
30616118020	BD15038 MW-10V	Total Radium Calculation	615910		
30616118021	BD15039 MW-9	Total Radium Calculation	615910		
30616118022	BD15040 MW-16V	Total Radium Calculation	615910		
30616118023	BD15041 MW-18H	Total Radium Calculation	615910		
30616118024	BD15042 MW-19H	Total Radium Calculation	615920		
30616118025	BD15043 MW-20H	Total Radium Calculation	615920		
30616118026	BD15044 MW-20V	Total Radium Calculation	615920		
30616118027	BD15045 MW-12	Total Radium Calculation	615920		
30616118028	BD15046 MW-12V	Total Radium Calculation	615920		
30616118029	BD15047 MW-1	Total Radium Calculation	615920		
30616118030	BD15048 MW-1 Dup	Total Radium Calculation	615920		
30616118031	BD15049 MW-7V	Total Radium Calculation	615920		
30616118032	BD15050 MW-7	Total Radium Calculation	615920		
30616118033	BD15051 MW-5V	Total Radium Calculation	615920		
30616118034	BD15052 MW-5	Total Radium Calculation	616574		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1417
 Pace Project No.: 30616118

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30616118037	BD15053 FB-2	Total Radium Calculation	615920		
30616118038	BD15054 MW-25V	Total Radium Calculation	615920		
30616118039	BD15055 MW-25H	Total Radium Calculation	615920		
30616118040	BD15056 MW-25H Dup	Total Radium Calculation	615920		
30616118041	BD15057 MW-17V	Total Radium Calculation	616574		
30616118042	BD15058 MW-17H	Total Radium Calculation	616574		
30616118043	BD15059 MW-23V	Total Radium Calculation	616574		
30616118044	BD15060 MW-23H	Total Radium Calculation	616574		
30616118045	BD15139 MW-1V	Total Radium Calculation	616574		
30616118046	BD15140 FB-4	Total Radium Calculation	616574		
30616118047	BD15141 MW-3	Total Radium Calculation	616574		
30616118048	BD15142 MW-4	Total Radium Calculation	616574		
30616118049	BD15143 MW-6	Total Radium Calculation	616574		
30616118050	BD15144 MW-14V	Total Radium Calculation	616574		
30616118051	BD15145 MW-14	Total Radium Calculation	616574		
30616118052	BD15146 MW-13V	Total Radium Calculation	616574		
30616118053	BD15147 MW-13	Total Radium Calculation	616574		
30616118054	BD15148 EB-1	Total Radium Calculation	616574		

REPORT OF LABORATORY ANALYSIS

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WO#: 30616118



30616118

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

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
 Report To: Brooke Caton
 Copy To: Renee Jernigan & Blaine Denton
 Purchase Order #: APC87119-0001
 Project Name: Plant Barry Ash Pond
 Project Number: WMWBARAP_1417

Section B

Invoice Information:
 Attention: Brooke Caton
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Sivler Richmond
 Pace Profile #: 16788

Section C

Regulatory Agency: AL
State / Location:

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	Preservatives	Y/N	Requested/Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	EPA 9315	EPA 9320	Total Radium Sum	TEMP in C	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)							
																										RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	BD15023	MW-8	APCO-BY-AP-MW-8	APCO_Barry_AshPond			GW G	8/7/2023 14:30	1								X	X														
2	BD15024	MW-8V	APCO-BY-AP-MW-8V	APCO_Barry_AshPond			GW G	8/7/2023 17:40	1								X	X														
3	BD15025	MW-8V Diss	APCO-BY-AP-MW-8V	APCO_Barry_AshPond			GW G	8/7/2023 17:40	1								X	X														
4	BD15026	MW-15V	APCO-BY-AP-MW-15V	APCO_Barry_AshPond			GW G	8/8/2023 9:13	3								X	X														
5	BD15027	MW-22H	APCO-BY-AP-MW-22H	APCO_Barry_AshPond			GW G	8/8/2023 10:30	1								X	X														
6	BD15028	FB-3	APCO-BY-AP-FB-03	APCO_Barry_AshPond			GW G	8/8/2023 11:20	1								X	X														
7	BD15029	MW-15	APCO-BY-AP-MW-15	APCO_Barry_AshPond			GW G	8/8/2023 11:40	1								X	X														
8	BD15030	MW-24H	APCO-BY-AP-MW-24H	APCO_Barry_AshPond			GW G	8/8/2023 12:50	1								X	X														
9	BD15031	MW-16	APCO-BY-AP-MW-16	APCO_Barry_AshPond			GW G	8/8/2023 13:55	1								X	X														
10	BD15032	MW-16 Dup	APCO-BY-AP-MW-16	APCO_Barry_AshPond	x		GW G	8/8/2023 13:55	1								X	X														
11	BD15033	MW-2	APCO-BY-AP-MW-2	APCO_Barry_AshPond			GW G	8/8/2023 14:57	1								X	X														
12	BD15034	MW-11	APCO-BY-AP-MW-11	APCO_Barry_AshPond			GW G	8/7/2023 11:05	3								X	X														
																	ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
																			Brooke Caton/ APC GTL		8/15/2023		8:53		Suppose		8/17/23		1000		N Y Y	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 DATE Signed:

PM: SCR Due Date: 09/15/23

CLIENT: ALABAMA PWR

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Catton	Attention:	Brooke Catton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
Email To:	tbwill@southemco.com	Purchase Order #:	APC87119-0001	Address:	744 Highway 87 GSC Bldg #8
Phone:	205-664-6101	Project Name:	Plant Barry Ash Pond	Pace Quote:	CCR
Requested Due Date:	28 days	Project Number:	WMBARAP_1417	Pace Project Manager:	Skyler Richmond
				Pace Profile #:	16788
				Regulatory Agency:	AL
				State/Location:	AL

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	COLLECTED		Matrix Spike/Matrix Spike Duplicate	Field Filtered	Matrix Code (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	# OF CONTAINERS	Unpreserved	H2SO4	HN03	Preservatives	Y/N	Requested/Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
				START DATE	TIME												
1	BD15035	APCO-BY-AP-FB-01	APCO_Barry_AshPond	8/7/2023	11:30			GW	G	1						X	01P
2	BD15036	APCO-BY-AP-MW-10	APCO_Barry_AshPond	8/7/2023	12:05			GW	G	1						X	01S
3	BD15037	APCO-BY-AP-MW-10	APCO_Barry_AshPond	8/7/2023	12:05	x		GW	G	1						X	01A
4	BD15038	APCO-BY-AP-MW-10V	APCO_Barry_AshPond	8/7/2023	13:04			GW	G	1						X	02D
5	BD15039	APCO-BY-AP-MW-9	APCO_Barry_AshPond	8/7/2023	14:00			GW	G	1						X	02V
6	BD15040	APCO-BY-AP-MW-16V	APCO_Barry_AshPond	8/7/2023	15:20			GW	G	1						X	02V
7	BD15041	APCO-BY-AP-MW-18H	APCO_Barry_AshPond	8/8/2023	7:51			GW	G	1						X	02V
8	BD15042	APCO-BY-AP-MW-19H	APCO_Barry_AshPond	8/8/2023	8:58			GW	G	1						X	02V
9	BD15043	APCO-BY-AP-MW-20H	APCO_Barry_AshPond	8/8/2023	9:56			GW	G	1						X	02V
10	BD15044	APCO-BY-AP-MW-20V	APCO_Barry_AshPond	8/8/2023	10:49			GW	G	1						X	02V
11	BD15045	APCO-BY-AP-MW-12	APCO_Barry_AshPond	8/8/2023	11:50			GW	G	1						X	02V
12	BD15046	APCO-BY-AP-MW-12V	APCO_Barry_AshPond	8/8/2023	12:38			GW	G	1						X	02V
ADDITIONAL COMMENTS										ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
										Brooke Catton/ APC-GTL		8/15/2023		8:53			
										<i>Brooke Catton</i>		8/17/23		1000			

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample ids must be unique

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:

DATE Signed:

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Brooke Caton	Company Name: Brooke Caton	Attention: Brooke Caton	Company Name: Alabama Power Co.	Address: 744 Highway 87 GSC Bldg #8
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8
Calera, AL 35040					
Email To: tbwill@southernco.com	Purchase Order #: APC87119-0001	Project Name: Plant Barry Ash Pond	Pace Quote: CCR	Pace Project Manager: Skyler Richmond	States / Location: AL
Phone: 205-664-6101 Fax:	Project Number: WMWBARAP_1417	Pace Profile #: 16788			
Requested Due Date: 28 days					

ITEM #	DESCRIPTION	STATION NAME LOCATION_ID	SITE NAME FACILITY_ID	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST Y/N	EPA 9315	EPA 9320	TOTAL RADIUM SUM	RESIDUAL CHLORINE (Y/N)	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
													DATE	TIME	DATE	TIME				
1	BD15047 MW-1	APCO-BY-AP-MW-1	APCO_Barry_AshPond	G	8/8/2023 13:50	1	X	X	X	X	X									
2	BD15048 MW-1 Dup	APCO-BY-AP-MW-1	APCO_Barry_AshPond	G	8/8/2023 13:50	1	X	X	X	X	X									
3	BD15049 MW-7V	APCO-BY-AP-MW-7V	APCO_Barry_AshPond	G	8/7/2023 12:31	1	X	X	X	X	X									
4	BD15050 MW-7	APCO-BY-AP-MW-7	APCO_Barry_AshPond	G	8/7/2023 13:30	1	X	X	X	X	X									
5	BD15051 MW-5V	APCO-BY-AP-MW-5V	APCO_Barry_AshPond	G	8/7/2023 14:55	1	X	X	X	X	X									
6	BD15052 MW-5	APCO-BY-AP-MW-5	APCO_Barry_AshPond	G	8/7/2023 15:52	3	X	X	X	X	X									
7	BD15053 FB-2	APCO-BY-AP-FB-02	APCO_Barry_AshPond	G	8/7/2023 16:20	1	X	X	X	X	X									
8	BD15054 MW-25V	APCO-BY-AP-MW-25V	APCO_Barry_AshPond	G	8/8/2023 8:55	1	X	X	X	X	X									
9	BD15055 MW-25H	APCO-BY-AP-MW-25H	APCO_Barry_AshPond	G	8/8/2023 9:58	1	X	X	X	X	X									
10	BD15056 MW-25H Dup	APCO-BY-AP-MW-25H	APCO_Barry_AshPond	G	8/8/2023 9:58	1	X	X	X	X	X									
11	BD15057 MW-17V	APCO-BY-AP-MW-17V	APCO_Barry_AshPond	G	8/8/2023 12:15	1	X	X	X	X	X									
12	BD15058 MW-17H	APCO-BY-AP-MW-17H	APCO_Barry_AshPond	G	8/8/2023 13:00	1	X	X	X	X	X									

ADDITIONAL COMMENTS

Brooke Caton / APC GTL

8/4/2023 8:53

8/1/23 1000

Brooke Caton

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

CHAIN-OF-CUSTODY / Analytical Request Docum


The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete.

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.
Email To:	ibwill@southemco.com	Purchase Order #:	AP087119-0001	Address:	744 Highway 87 GSC Bldg #8 CCR
Phone:	205-664-6101	Project Name:	Plant Barry Ash Pond	Pace Quote:	
Requested Due Date:	28 days	Project Number:	WNWBARAP_1417	Pace Project Manager:	Skyler Richmond
				Pace Profile #:	16788
				Regulatory Agency:	AL
				State / Location:	

ITEM #	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		# OF CONTAINERS	Unpreserved	H2SO4	HNO3	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	EPA 8320	EPA 8315	Total Radium Sum	Residual Chlorine (Y/N)
									START DATE	TIME											
1	BD15059	MW-23V	APCO-BY-AP-MW-23V	APCO_Barry_AshPond			GW	G	8/8/2023	14:08	1						X	X	X		
2	BD15060	MW-23H	APCO-BY-AP-MW-23H	APCO_Barry_AshPond			GW	G	8/8/2023	15:10	1						X	X	X		
3	BD15139	MW-1V	APCO-BY-AP-MW-1V	APCO_Barry_AshPond			GW	G	8/9/2023	10:14	1						X	X	X		
4	BD15140	FB-4	APCO-BY-AP-FB-04	APCO_Barry_AshPond			GW	G	8/9/2023	10:35	1						X	X	X		
5	BD15141	MW-3	APCO-BY-AP-MW-3	APCO_Barry_AshPond			GW	G	8/9/2023	11:48	1						X	X	X		
6	BD15142	MW-4	APCO-BY-AP-MW-4	APCO_Barry_AshPond			GW	G	8/9/2023	12:38	1						X	X	X		
7	BD15143	MW-6	APCO-BY-AP-MW-6	APCO_Barry_AshPond			GW	G	8/9/2023	13:45	1						X	X	X		
8	BD15144	MW-14V	APCO-BY-AP-MW-14V	APCO_Barry_AshPond			GW	G	8/9/2023	9:25	1						X	X	X		
9	BD15145	MW-14	APCO-BY-AP-MW-14	APCO_Barry_AshPond			GW	G	8/9/2023	10:27	1						X	X	X		
10	BD15146	MW-13V	APCO-BY-AP-MW-13V	APCO_Barry_AshPond			GW	G	8/9/2023	11:45	1						X	X	X		
11	BD15147	MW-13	APCO-BY-AP-MW-13	APCO_Barry_AshPond			GW	G	8/9/2023	12:45	1						X	X	X		
12	BD15148	EB-1	APCO-BY-AP-EB-01	APCO_Barry_AshPond			GW	G	8/9/2023	13:20	1						X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	8/15/2023	8:53	<i>Brooke Caton</i>	8/17/23	10:00	

SAMPLER NAME AND SIGNATURE		TEMP IN C
PRINT Name of SAMPLER:		
SIGNATURE of SAMPLER:		
DATE Signed:		


DC#_Title: ENV-FRM-GBUR-0088 v05_Sample Condition Upon Receipt- Pittsburgh
WO#: 30616118
 Effective Date: 07/06/2023 PM: SCR Due Date: 09/15/23
 CLIENT: ALABAMA PWR
 Client Name: **APC**

Courier: Fed Ex UPS USPS Client Commercial Pace Other Initial / Date
 Tracking Number: **701236968323/701236968345**
 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

Examined By: **TH 8/23/23**
 Labeled By: **TH 8/23/23**
 Temped By: **—**

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				1000831	—
Chain of Custody Present	J			1.	
Chain of Custody Filled Out:	J			2.	
-Were client corrections present on COC		J			
Chain of Custody Relinquished	J			3.	
Sampler Name & Signature on COC:		J		4.	
Sample Labels match COC:		J		5.	Sample 005 and 006 have ID of "MM-15" and time of 11:40.
-Includes date/time/ID Matrix:					
Samples Arrived within Hold Time:	J			6.	
Short Hold Time Analysis (<72hr remaining):		J		7.	
Rush Turn Around Time Requested:		J		8.	
Sufficient Volume:	J			9.	
Correct Containers Used:	J			10.	
-Pace Containers Used	J				
Containers Intact:	J			11.	
Orthophosphate field filtered:			J	12.	
Hex Cr Aqueous samples field filtered:			J	13.	
Organic Samples checked for dechlorination			J	14.	
Filtered volume received for dissolved tests:			J	15.	
All containers checked for preservation:	J			16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix					
All containers meet method preservation requirements:	J			Initial when completed TH	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			J	17.	
624.1: Headspace in VOA Vials (0mm)			J	18.	
Trip Blank Present:			J	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	J			Initial when completed TH	Date: 8/17/23 Survey Meter SN: 1583
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client _____

Site Plant Barry Ash Pond

Page 1 of 1

Profile Number 16788

Notes _____

Sample Line Item	Amber Glass										Plastic							Vials						Other					
	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	GN	BG1U		
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Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass NA Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpreserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WGFU	4oz wide jar unpreserved
BG2U	500mL clear glass unpreserved
AG2U	500mL amber glass unpreserved
WGKU	8oz wide jar unpreserved
GN	General

WO#: 30616118

PM: SCR Due Date: 09/15/23

CLIENT: ALABAMA PWR

Qualitrix ID: 55678

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: SLC
 Date: 9/6/2023
 Worklist: 75118
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2992869
MB Concentration:	0.198
MB Counting Uncertainty:	0.116
MB MDC:	0.169
MB Numerical Performance Indicator:	3.35
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:		LCS75118	LCSD75118
Spike I.D.:		9/15/2023	9/15/2023
Decay Corrected Spike Concentration (pCi/mL):		23-014	23-014
Volume Used (mL):		25.031	25.031
Aliquot Volume (L, g, F):		0.10	0.10
Target Conc. (pCi/L, g, F):		0.507	0.503
Uncertainty (Calculated):		4.941	4.975
Result (pCi/L, g, F):		0.232	0.234
Numerical Performance Indicator:		4.784	4.735
Percent Recovery:		0.501	0.536
Status vs Numerical Indicator:		-0.56	-0.80
Upper % Recovery Limits:		96.81%	95.18%
Lower % Recovery Limits:		N/A	N/A
Duplicate Status vs Recovery:		Pass	Pass
Duplicate Status vs Numerical Indicator:		125%	125%
% RPD Limit:		75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS75118
Duplicate Sample I.D.:	LCSD75118
Sample Result (pCi/L, g, F):	4.784
Duplicate Result (pCi/L, g, F):	0.501
Sample Duplicate Result (pCi/L, g, F):	4.735
Duplicate Duplicate Result (pCi/L, g, F):	0.536
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.69%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	N/A
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		8/8/2023	
Sample I.D.:		30616118004	
Sample MS I.D.:		30616118005	
Spike I.D.:		30616118006	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		23-014	
Spike Volume Used in MS (mL):		25.032	
MS Aliquot (L, g, F):		0.20	
MS Target Conc. (pCi/L, g, F):		0.205	
MSD Aliquot (L, g, F):		24.412	
MSD Target Conc. (pCi/L, g, F):		0.208	
MSD Target Conc. (pCi/L, g, F):		24.032	
MS Spike Uncertainty (calculated):		1.147	
MSD Spike Uncertainty (calculated):		1.130	
Sample Result:		0.576	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.319	
Sample Matrix Spike Result:		23.658	
Sample Matrix Spike Duplicate Result:		1.794	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		23.308	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		1.750	
MS Numerical Performance Indicator:		-1.210	
MSD Numerical Performance Indicator:		-1.209	
MS Percent Recovery:		94.55%	
MSD Percent Recovery:		94.55%	
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%	

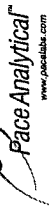
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30616118004
Sample MS I.D.:	30616118005
Sample Matrix Spike Result:	23.658
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.794
Sample Matrix Spike Duplicate Result:	23.308
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.750
Duplicate Numerical Performance Indicator:	0.274
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	0.04%
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:
 *The method blank result is below the reporting limit for this analysis and is acceptable.

UAM 9/15/23

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: JJS1
Date: 9/5/2023
Worklist: 75033
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976859
MB concentration:	0.768
M/B 2 Sigma CSU:	0.332
MB MDC:	0.493
MB Numerical Performance Indicator:	4.53
MB Status vs. Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		LCS (Y or NJ)?	N
		LCS75033	LCS75033
Count Date:	9/8/2023		
Spike I.D.:	23-043		
Decay Corrected Spike Concentration (pCi/mL):	39.905		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.815		
Target Conc. (pCi/L, g, F):	4.894		
Uncertainty (Calculated):	0.240		
Result (pCi/L, g, F):	4.835		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.039		
Numerical Performance Indicator:	-0.11		
Percent Recovery:	98.81%		
Status vs Numerical Indicator:	N/A		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:		
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?		
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/8/2023		
Sample I.D.:	30616118004		
Sample MS I.D.:	30616118005		
Sample MSD I.D.:	30616118006		
Spike I.D.:	23-043		
Spike I.D.:	40.318		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.807		
MS Aliquot (L, g, F):	9.994		
MS Target Conc. (pCi/L, g, F):	0.807		
MSD Aliquot (L, g, F):	9.997		
MSD Target Conc. (pCi/L, g, F):	0.490		
MS Spike Uncertainty (calculated):	1.473		
MSD Spike Uncertainty (calculated):	0.526		
Sample Result:	9.155		
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.827		
Sample Matrix Spike Result:	9.334		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.884		
Sample Matrix Spike Duplicate Result:	-2.310		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	76.86%		
MS Numerical Performance Indicator:	Warning		
MSD Numerical Performance Indicator:	Warning		
MS Percent Recovery:	Pass		
MSD Percent Recovery:	Pass		
MS Status vs Numerical Indicator:	135%		
MSD Status vs Numerical Indicator:	60%		
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30616118004
Sample MS I.D.:	30616118005
Sample MSD I.D.:	30616118006
Sample Matrix Spike Result:	9.155
Sample Matrix Spike Duplicate Result:	1.827
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.334
Sample Matrix Spike Duplicate Result:	1.884
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	-0.134
Duplicate Numerical Performance Indicator:	2.27%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	36%
% RPD Limit:	

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.

VAL
9/12/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/16/2023
Worklist: 75119
Matrix: WT

Method Blank Assessment	
MB Sample ID	2982870
MB concentration:	0.031
M/B 2 Sigma CSU:	0.090
MB MDC:	0.218
MB Numerical Performance Indicator:	0.69
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	9/15/2023	LCSD75119	9/15/2023
Spike I.D.:	19-033		19-033
Decay Corrected Spike Concentration (pCi/mL):	24.013		24.013
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.507		0.505
Target Conc. (pCi/L, g, F):	4.738		4.754
Uncertainty (Calculated):	0.057		0.057
Result (pCi/L, g, F):	5.688		5.320
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.001		0.946
Numerical Performance Indicator:	1.86		1.17
Percent Recovery:	120.05%		111.92%
Status vs Numerical Indicator:	Pass		Pass
Status vs Recovery:	N/A		N/A
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS75119
Duplicate Sample I.D.:	LCS75119
Duplicate Sample Result (pCi/L, g, F):	5.688
Sample Result (pCi/L, g, F):	1.001
Sample Duplicate Result (pCi/L, g, F):	5.320
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.946
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.523
Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.01%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/7/2023		
Sample ID:	30616118014		
Sample MS I.D.:	30616118015		
Sample MSD I.D.:	30616118016		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.014		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.297		
MS Target Conc. (pCi/L, g, F):	16.149		
MSD Aliquot (L, g, F):	0.282		
MSD Target Conc. (pCi/L, g, F):	17.048		
MS Spike Uncertainty (calculated):	0.194		
MSD Spike Uncertainty (calculated):	0.205		
Sample Result:	0.538		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.281		
Sample Matrix Spike Result:	16.623		
Sample Matrix Spike Duplicate Result:	2.762		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	19.341		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.104		
MS Numerical Performance Indicator:	-0.045		
MS Numerical Performance Indicator:	1.101		
MS Percent Recovery:	99.60%		
MSD Percent Recovery:	110.29%		
MS Status vs Numerical Indicator:	Pass		
MS Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	N/A		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30616118014
Sample MS I.D.:	30616118015
Sample MSD I.D.:	30616118016
Sample Matrix Spike Result:	16.623
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.762
Sample Matrix Spike Duplicate Result:	19.341
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.104
Duplicate Numerical Performance Indicator:	-1.282
Duplicate (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	10.19%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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VAM 9/15/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JJS1
Date: 9/5/2023
Worklist: 75034
Matrix: WT

Method Blank Assessment	
MB Sample ID	2976861
MB concentration:	0.706
M/B 2 Sigma CSU:	0.339
MB MDC:	0.562
MB Numerical Performance Indicator:	4.08
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD75034	LCSD75034
Count Date:	9/11/2023
Spike I.D.:	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.867
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.815
Target Conc. (pCi/L, g, F):	4.890
Uncertainty (Calculated):	0.240
Result (pCi/L, g, F):	3.749
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.902
Numerical Performance Indicator:	-2.40
Percent Recovery:	76.67%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
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:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/7/2023		
Sample I.D.:	30616118014		
Sample MS I.D.:	30616118015		
Sample MSD I.D.:	30616118016		
Spike I.D.:	23-043		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	40.331		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.802		
MS Target Conc. (pCi/L, g, F):	10.056		
MSD Aliquot (L, g, F):	0.802		
MSD Target Conc. (pCi/L, g, F):	10.055		
MS Spike Uncertainty (calculated):	0.493		
MSD Spike Uncertainty (calculated):	0.493		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.578		
Sample Matrix Spike Result:	0.341		
Sample Matrix Spike Result:	8.827		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.754		
Sample Matrix Spike Duplicate Result:	8.811		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.769		
MS Numerical Performance Indicator:	-1.913		
MSD Numerical Performance Indicator:	82.03%		
MS Percent Recovery:	81.87%		
MSD Percent Recovery:	Pass		
MS Status vs Numerical Indicator:	Pass		
MSD Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	135%		
MS/MSD Upper % Recovery Limits:	60%		
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30616118014
Sample MS I.D.:	30616118015
Sample MSD I.D.:	30616118016
Sample Matrix Spike Result:	8.827
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.754
Sample Matrix Spike Duplicate Result:	8.811
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.769
Duplicate Numerical Performance Indicator:	0.013
Duplicate Numerical Performance Indicator:	0.19%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	36%
% RPD Limit:	

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.

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UAC
9/12/23

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: ZPC
Date: 9/7/2023
Worklist: 75035
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976865
MB Concentration:	0.153
MB 2 Sigma CSU:	0.337
MB MDC:	0.741
MB Numerical Performance Indicator:	0.89
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	LCSD75035
Count Date:	9/11/2023		N
Spike I.D.:	23-043		
Decay Corrected Spike Concentration (pCi/mL):	39.865		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.817		
Target Conc. (pCi/L, g, F):	4.880		
Uncertainty (Calculated):	0.239		
Result (pCi/L, g, F):	2.662		
LCSD/MSD 2 Sigma CSU (pCi/L, g, F):	0.811		
Numerical Performance Indicator:	-5.14		
Percent Recovery:	54.56%		
Status vs Numerical Indicator:	Fail** X		
Status vs Recovery:	Fail Low**		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/7/2023		
Sample I.D.:	30616118034		
Sample MS I.D.:	30616118035		
Sample MSD I.D.:	30616118036		
Spike I.D.:	23-043		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	40.328		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.803		
MS Target Conc. (pCi/L, g, F):	10.040		
MSD Aliquot (L, g, F):	0.802		
MSD Target Conc. (pCi/L, g, F):	10.061		
MS Spike Uncertainty (calculated):	0.492		
MSD Spike Uncertainty (calculated):	0.493		
Sample Result:	0.276		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.359		
Sample Matrix Spike Result:	8.602		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.759		
Sample Matrix Spike Duplicate Result:	8.765		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.775		
MS Numerical Performance Indicator:	-1.805		
MSD Numerical Performance Indicator:	-1.641		
MS Percent Recovery:	82.93%		
MSD Percent Recovery:	84.38%		
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		Enter Duplicate sample IDs if other than LCS/MSD in the space below.
Sample I.D.:		
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):		
Ave sample and/or duplicate results below RL?		
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		MS/MSD 1	MS/MSD 2
Sample I.D.:	30616118034		
Sample MS I.D.:	30616118035		
Sample MSD I.D.:	30616118036		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	8.602		
Sample Matrix Spike Result:	1.759		
Matrix Matrix Spike Duplicate Result:	8.765		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.775		
Duplicate Numerical Performance Indicator:	-0.128		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.74%		
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:
**Batch must be re-prepped due to LCS failure.

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Handwritten: VAP, 9/13/23



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: ZPC
 Date: 9/13/2023
 Worklist: 75035
 Matrix:

Method Blank Assessment

MB Sample ID: _____
 MB concentration: _____
 MB MDC: _____
 MB Numerical Performance Indicator: _____
 MB Status vs Numerical Indicator: _____
 MB Status vs. MDC: _____

Laboratory Control Sample Assessment

Count Date:	9/18/2023	LCSD (Y or N)?	N
Spike I.D.:	23-043	LCSD75035	
Decay Corrected Spike Concentration (pCi/mL):	39.774		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.817		
Target Conc. (pCi/L, g, F):	4.868		
Uncertainty (Calculated):	0.239		
Result (pCi/L, g, F):	3.756		
Numerical Performance Indicator:	0.879		
Percent Recovery:	-2.39		
Status vs Numerical Indicator:	77.16%		
Status vs Recovery:	N/A		
Upper % Recovery Limits:	Pass		
Lower % Recovery Limits:	139%		
	60%		

Duplicate Sample Assessment

Sample I.D.:	Duplicate Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	Sample Duplicate Result (pCi/L, g, F):	
Are sample and/or duplicate results below RL?		
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Sample Matrix Spike Control Assessment

Sample Collection Date:	MS/MSD 1	MS/MSD 2
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 Matrix Spike Result:		
Sample Matrix Spike Duplicate Result:		
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:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
Sample Matrix Spike Result:	Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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UPL
9/19/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/7/2023
Worklist: 75120
Matrix: WT

Method Blank Assessment	
MB Sample ID	2982880
MB concentration:	0.070
M/B 2 Sigma CSU:	0.115
MB MDC:	0.256
MB Numerical Performance Indicator:	1.20
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCS (Y or N)?	Y
LCS75120	9/15/2023
Count Date:	9/15/2023
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.013
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.504
Target Conc. (pCi/L, g, F):	4.767
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	5.299
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.934
Numerical Performance Indicator:	1.67
Percent Recovery:	117.53%
Status vs Numerical Indicator:	Pass
Status vs Recovery:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS75120
Duplicate Sample I.D.:	LCS75120
Sample Result (pCi/L, g, F):	5.530
Sample Duplicate Result (pCi/L, g, F):	0.969
Sample Result 2 Sigma CSU (pCi/L, g, F):	5.299
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.934
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.335
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.57%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	Sample I.D.	8/7/2023	
Spike Volume Used in MS (mL):	Sample MS I.D.	30616118034	
MS Aliquot (L, g, F):	Sample MSD I.D.	30616118035	
MS Target Conc. (pCi/L, g, F):	Spike I.D.:	30616118036	
MSD Aliquot (L, g, F):	MS/MSD Decay Corrected Spike Concentration (pCi/mL):	19-033	
MSD Target Conc. (pCi/L, g, F):	Spike Volume Used in MS (mL):	24.014	
MS Spike Uncertainty (calculated):	MS Aliquot (L, g, F):	0.20	
MSD Spike Uncertainty (calculated):	MS Target Conc. (pCi/L, g, F):	0.325	
MSD Numerical Performance Indicator:	MSD Aliquot (L, g, F):	14.786	
MS Percent Recovery:	MSD Target Conc. (pCi/L, g, F):	0.324	
MS Status vs Numerical Indicator:	MS Spike Uncertainty (calculated):	14.814	
MS Status vs Recovery:	MSD Spike Uncertainty (calculated):	0.177	
MS/MSD Upper % Recovery Limits:	MSD Result 2 Sigma CSU (pCi/L, g, F):	0.178	
MS/MSD Lower % Recovery Limits:	Sample Result 2 Sigma CSU (pCi/L, g, F):	0.263	
	Sample Matrix Spike Result:	0.207	
	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	17.009	
	Sample Matrix Spike Duplicate Result:	2.760	
	Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	18.385	
	MS Numerical Performance Indicator:	2.966	
	MSD Numerical Performance Indicator:	1.386	
	MS Percent Recovery:	2.177	
	MSD Percent Recovery:	113.26%	
	MS Status vs Numerical Indicator:	122.33%	
	MS Status vs Numerical Indicator:	Pass	
	MS Status vs Recovery:	Warning	
	MS/MSD Upper % Recovery Limits:	N/A	
	MS/MSD Lower % Recovery Limits:	N/A	
		125%	
		75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30616118034
Sample MS I.D.:	30616118035
Sample MSD I.D.:	30616118036
Sample Matrix Spike Result:	17.009
Sample Matrix Spike Duplicate Result:	2.760
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	18.385
Sample Matrix Spike Duplicate Result:	2.966
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	-0.666
Duplicate Numerical Performance Indicator:	7.70%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	25%
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

JFK-1803

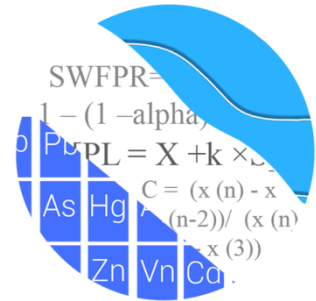
RAM9/18/23

Appendix D

GROUNDWATER STATS CONSULTING

June 12, 2023

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Gaston Ash Pond
1st Semi-Annual Analysis – January/February 2023

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 January/February 2023 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-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 interwell prediction and tolerance limits during this analysis as each well had the required minimum of two samples.

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 Andrew Collins, Project Manager for 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: 57
- # 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, 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 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.

Outlier Analysis

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 were 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 summary of Tukey's test results was included with the September 2019 screening.

Trend Testing

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 increasing 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 – January/February 2023

Interwell Prediction Limits

Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new measurements were flagged. Values in background which have been previously flagged as outliers were confirmed and may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of all 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 February 2023 to establish a background limit for an individual constituent. As mentioned earlier, 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 January/February 2023 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 (pages 11-14). 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 at the 99% confidence level 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 4 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 (pages 15-17). 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, GN-AP-MW-16, GN-AP-MW-18, 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-16, GN-AP-MW-17, GN-AP-MW-18, and GN-AP-MW-19
- TDS: GN-AP-MW-9, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, and GN-AP-MW-20

Decreasing:

- pH: GN-AP-MW-17
- Sulfate: GN-AP-MW-5
- TDS: GN-AP-MW-4 and GN-AP-MW-8

Although increasing trends were identified for boron, calcium, and chloride at well GN-AP-MW-15R when the entire record of data is evaluated, more recent concentrations for these constituents, along with TDS, at this well have been steadily decreasing since early 2019.

Evaluation of Appendix IV Parameters – January/February 2023

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. A summary of the upper tolerance limits follows this letter (page 18).

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, page 19) 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 February 2023 for each of the Appendix IV parameters (Figure H). 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 (pages 20-23). 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

Note that concentrations for lithium and molybdenum at GN-AP-MW-15R have been steadily decreasing since early 2020.

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,

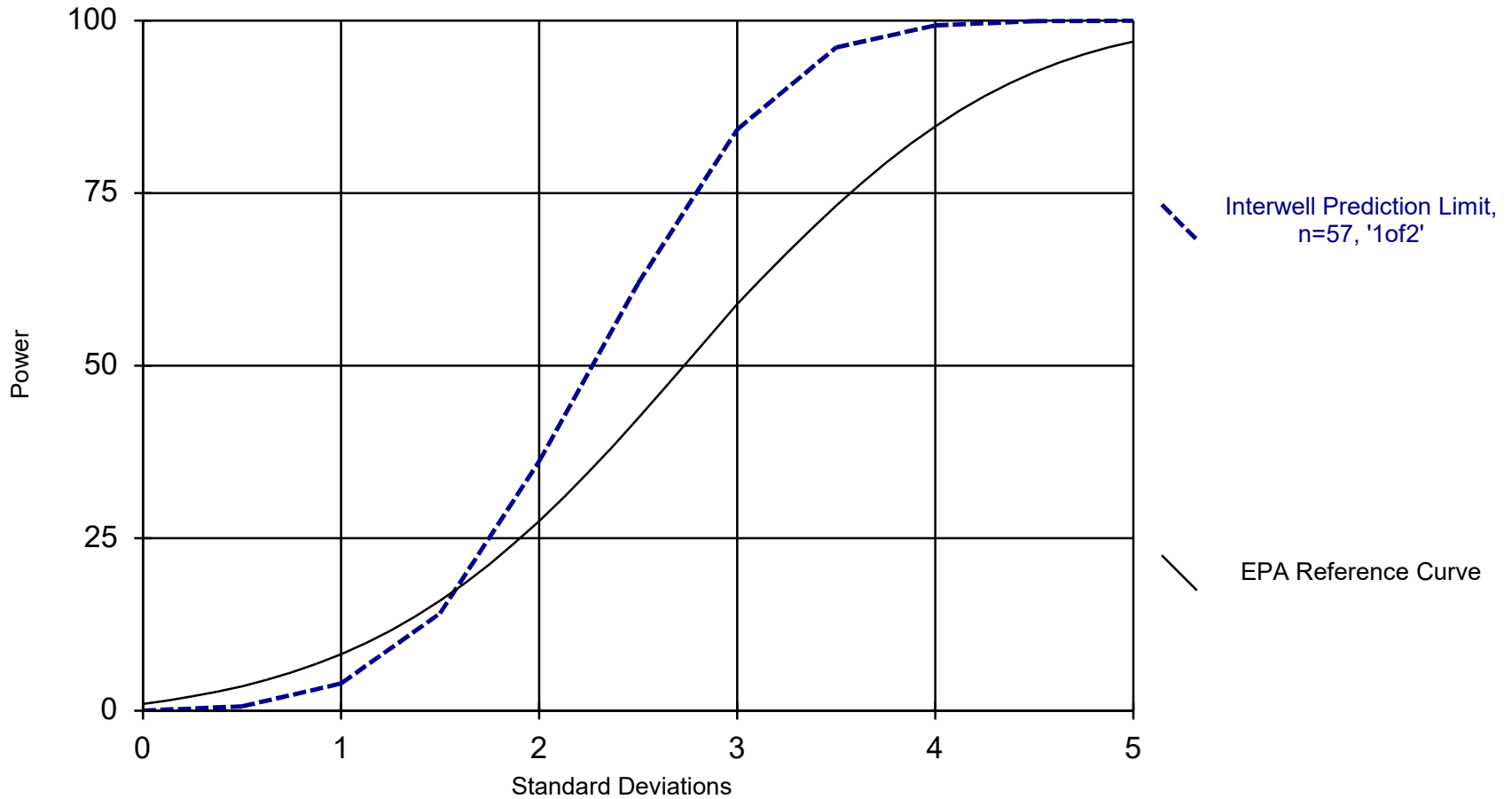


Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

Interwell Power Curve



Kappa = 2.178, based on 19 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

100% Non-Detects: Appendix IV Downgradient

Analysis Run 4/3/2023 3:48 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Antimony (mg/L)

GN-AP-MW-10, GN-AP-MW-13, GN-AP-MW-18, 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-14, GN-AP-MW-17, GN-AP-MW-20, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9

Lead (mg/L)

GN-AP-MW-10, GN-AP-MW-12, GN-AP-MW-14, GN-AP-MW-15R, 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-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-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-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

Appendix III - Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/2/2023, 10:11 PM

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-19	183.6	n/a	1/25/2023	225	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-20	183.6	n/a	1/24/2023	924	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-21	183.6	n/a	2/6/2023	376	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-22	183.6	n/a	2/6/2023	302	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-4	183.6	n/a	2/7/2023	247	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-5	183.6	n/a	2/6/2023	222	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-6	183.6	n/a	2/6/2023	374	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-7	183.6	n/a	1/25/2023	345	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-8	183.6	n/a	1/25/2023	227	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-9	183.6	n/a	1/25/2023	207	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2

Appendix III - Trend Tests - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/20/2023, 2:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.0332	153	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.02888	161	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.2949	136	98	Yes	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-16	0.02048	86	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.05263	82	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-20	0.153	127	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.282	101	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.815	108	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	4.462	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	22.68	137	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.716	115	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1861	117	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	10.24	150	98	Yes	23	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	2.587	163	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	9.625	160	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.3835	136	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5286	116	81	Yes	20	5	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-20	0.4718	126	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.4398	104	81	Yes	20	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.05484	-95	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.366	156	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	3.714	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	8.351	87	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	31.59	114	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-18	9.534	85	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.008	108	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-21.73	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	1.789	130	81	Yes	20	5	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	6.713	146	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	5.246	110	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-14	16.7	84	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	16.49	111	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	64.96	134	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-18	11.94	105	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-20	9.105	89	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-11.41	-85	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-8.37	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	4.882	115	81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/20/2023, 2:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.0332	153	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.02888	161	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.2949	136	98	Yes	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-16	0.02048	86	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-17	0.08156	70	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.05263	82	81	Yes	20	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	0.153	127	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-21	-0.004651	-6	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-22	-0.05112	-32	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-3 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-5	-0.2231	-73	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-6	-0.07351	-44	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-7	-0.02634	-19	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-10	0.3513	52	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.282	101	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.815	108	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-13	0.08085	8	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-14	-0.2051	-4	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-15R	9.201	89	98	No	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	4.462	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	22.68	137	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.716	115	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-19	0.04729	12	81	No	20	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	3.992	75	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-21	3.345	60	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-22	2.576	49	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-3 (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-4	0.472	38	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-5	-1.769	-34	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-6	3.119	72	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-7	-1.184	-28	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-8	-0.03467	-4	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1861	117	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-12	-0.1456	-57	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	10.24	150	98	Yes	23	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	2.587	163	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	9.625	160	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.3835	136	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5286	116	81	Yes	20	5	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	0.4718	126	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-21	0.5772	14	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-22	0	1	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-3 (bg)	-0.03061	-49	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-4	-1.991	-71	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-5	-2.778	-43	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-6	3.332	28	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-7	0.3098	16	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.4398	104	81	Yes	20	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.05484	-95	-87	Yes	21	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)	-0.002517	-17	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.366	156	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	3.714	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-14	7.462	75	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-15R	15.8	76	98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	8.351	87	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	31.59	114	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-18	9.534	85	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.008	108	81	Yes	20	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	2.07	13	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-21	-0.7912	-6	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-22	-10.48	-73	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-3 (bg)	-0.2392	-58	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-21.73	-120	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/20/2023, 2:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	GN-AP-MW-6	-6.963	-77	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-7	-5.18	-41	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	1.789	130	81	Yes	20	5	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	6.713	146	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	5.246	110	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-14	16.7	84	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-15R	33.14	63	98	No	23	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	16.49	111	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	64.96	134	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-18	11.94	105	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-19	1.273	51	81	No	20	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	9.105	89	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-21	-1.8	-6	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-22	-6.919	-23	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-3 (bg)	0	-7	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-11.41	-85	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-5	-26.16	-72	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-6	3.313	18	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-7	-11.44	-30	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-8.37	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	4.882	115	81	Yes	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limits - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/6/2022, 6:28 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
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 - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/3/2023, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Lithium (mg/L)	GN-AP-MW-16	0.1608	0.08494	0.04	Yes	8	0.03579	0	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-17	1.184	0.7526	0.04	Yes	8	0.2037	0	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-18	0.0507	0.0456	0.04	Yes	8	0.002245	0	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-20	0.1396	0.121	0.04	Yes	8	0.008927	0	x^2	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-15R	0.307	0.137	0.1	Yes	8	0.05831	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-16	0.556	0.32	0.1	Yes	8	0.1049	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-17	3.334	2.574	0.1	Yes	8	0.3587	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-20	0.8733	0.7842	0.1	Yes	8	0.04205	0	No	0.01	Param.

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/3/2023, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GN-AP-MW-11	0.00275	0.001015	0.006	No	8	0.0006134	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-12	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-14	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-15R	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-16	0.001015	0.000516	0.006	No	8	0.0001764	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-17	0.001164	0.0005599	0.006	No	8	0.0003943	50	ln(x)	0.01	Param.
Antimony (mg/L)	GN-AP-MW-19	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-20	0.00188	0.001015	0.006	No	8	0.0003058	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-6	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-7	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-10	0.005	0.000173	0.01	No	8	0.002468	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-11	0.005	0.000164	0.01	No	8	0.002488	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-12	0.004858	0.002162	0.01	No	8	0.001272	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-13	0.005	0.00043	0.01	No	8	0.002302	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-14	0.005	0.000441	0.01	No	8	0.002025	25	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-15R	0.005	0.000483	0.01	No	8	0.001502	12.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-16	0.005854	0.004803	0.01	No	8	0.0004958	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-17	0.01073	0.007806	0.01	No	8	0.00138	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-18	0.00416	0.00255	0.01	No	8	0.0005358	0	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-19	0.002773	0.001792	0.01	No	8	0.0004628	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-20	0.004289	0.003608	0.01	No	8	0.0003212	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-21	0.001891	0.0008418	0.01	No	8	0.0004952	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-22	0.005	0.000115	0.01	No	8	0.002189	25	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-4	0.005	0.000129	0.01	No	8	0.002504	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-5	0.005	0.000148	0.01	No	8	0.002483	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-6	0.005	0.0000955	0.01	No	8	0.002518	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-7	0.005	0.000101	0.01	No	8	0.002507	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-8	0.001837	0.0007341	0.01	No	8	0.0005622	12.5	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-9	0.003082	0.002238	0.01	No	8	0.0003977	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-10	0.01402	0.01283	2	No	8	0.0005651	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-11	0.009636	0.008374	2	No	8	0.0005953	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-12	0.08044	0.07331	2	No	8	0.003362	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-13	0.04263	0.03784	2	No	8	0.002261	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-14	0.07857	0.06518	2	No	8	0.006315	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-15R	0.07117	0.05286	2	No	8	0.00892	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GN-AP-MW-16	0.07028	0.03342	2	No	8	0.01874	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GN-AP-MW-17	0.1316	0.1046	2	No	8	0.01277	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-18	0.0553	0.0483	2	No	8	0.003301	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-19	0.01834	0.01348	2	No	8	0.002385	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GN-AP-MW-20	0.06273	0.0541	2	No	8	0.00407	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-21	0.04627	0.02953	2	No	8	0.007901	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-22	0.04354	0.02724	2	No	8	0.007688	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-4	0.0344	0.0151	2	No	8	0.006625	0	No	0.004	NP (normality)
Barium (mg/L)	GN-AP-MW-5	0.0314	0.02087	2	No	8	0.004966	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-6	0.02502	0.02071	2	No	8	0.002034	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-7	0.02691	0.01919	2	No	8	0.003638	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-8	0.02033	0.0156	2	No	8	0.002231	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-9	0.1163	0.106	2	No	8	0.004853	0	No	0.01	Param.
Cadmium (mg/L)	GN-AP-MW-16	0.0002	0.00008	0.005	No	8	0.00005122	75	No	0.004	NP (NDs)
Cadmium (mg/L)	GN-AP-MW-17	0.001	0.000261	0.005	No	8	0.000344	37.5	No	0.004	NP (normality)
Cadmium (mg/L)	GN-AP-MW-20	0.0002	0.00008	0.005	No	8	0.00005067	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-10	0.01	0.00025	0.1	No	8	0.005024	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-11	0.01	0.00065	0.1	No	8	0.004737	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-12	0.00102	0.000278	0.1	No	8	0.000374	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-13	0.00102	0.00027	0.1	No	8	0.0003817	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-14	0.01	0.000209	0.1	No	8	0.005043	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-15R	0.00102	0.00027	0.1	No	8	0.0003569	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-16	0.001015	0.00021	0.1	No	8	0.0003942	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-17	0.00102	0.00028	0.1	No	8	0.0003568	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-18	0.00102	0.00024	0.1	No	8	0.0003797	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-19	0.00102	0.00024	0.1	No	8	0.0003808	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-20	0.00186	0.00029	0.1	No	8	0.00048	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-21	0.00102	0.00032	0.1	No	8	0.0003127	75	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-22	0.001015	0.000237	0.1	No	8	0.0003944	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-4	0.01	0.00055	0.1	No	8	0.004792	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-5	0.01	0.000268	0.1	No	8	0.005001	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-6	0.00102	0.000259	0.1	No	8	0.0003719	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-7	0.00102	0.00035	0.1	No	8	0.0003196	62.5	No	0.004	NP (NDs)

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/3/2023, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Chromium (mg/L)	GN-AP-MW-8	0.00102	0.00031	0.1	No	8	0.0003692	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-9	0.00102	0.000286	0.1	No	8	0.0003862	50	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-11	0.000203	0.000075	0.006	No	8	0.00004525	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-12	0.005	0.000113	0.006	No	8	0.002494	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-13	0.0002	0.000094	0.006	No	8	0.0000401	50	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-15R	0.005	0.000193	0.006	No	8	0.002427	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-16	0.005	0.000679	0.006	No	8	0.002128	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-18	0.002242	0.0009226	0.006	No	8	0.001841	37.5	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-19	0.005	0.0000907	0.006	No	8	0.002522	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-21	0.001162	0.0003161	0.006	No	8	0.002238	37.5	ln(x)	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-22	0.005	0.000147	0.006	No	8	0.002457	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-4	0.0002	0.000078	0.006	No	8	0.00004313	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-5	0.000209	0.00009	0.006	No	8	0.00005343	50	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-8	0.0002	0.0000945	0.006	No	8	0.0000373	87.5	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-10	0.6896	0.2072	5	No	8	0.2276	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-11	0.4668	0.0465	5	No	8	0.1982	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-12	1.553	0.9035	5	No	8	0.3065	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-13	0.9681	0.5641	5	No	8	0.1906	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-14	1.482	0.3575	5	No	8	0.5307	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-15R	1.582	0.7319	5	No	8	0.5123	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-16	5.335	3.255	5	No	8	0.9809	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-17	1.786	0.8001	5	No	8	0.4651	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-18	1.993	1.115	5	No	8	0.4141	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-19	1.258	0.3321	5	No	8	0.437	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	15.7	1.49	5	No	8	4.773	0	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-21	0.8843	0.163	5	No	8	0.3403	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-22	0.8099	0.3109	5	No	8	0.2354	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-4	1.026	0.4336	5	No	8	0.2796	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-5	1.278	0.3779	5	No	8	0.4245	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-6	0.7639	0.3216	5	No	8	0.2086	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-7	0.7767	0.4438	5	No	8	0.157	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-8	0.5812	0.2109	5	No	8	0.1747	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-9	0.9393	0.2657	5	No	8	0.3178	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-10	0.125	0.051	4	No	8	0.03181	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-11	0.125	0.0546	4	No	8	0.03085	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-12	0.08323	0.05619	4	No	8	0.03062	37.5	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-13	0.125	0.06	4	No	8	0.02763	37.5	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-14	0.1354	0.08132	4	No	8	0.02549	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-15R	0.104	0.07458	4	No	8	0.01388	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-16	0.1461	0.09756	4	No	8	0.02289	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-17	0.2035	0.1258	4	No	8	0.03665	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-18	0.125	0.0551	4	No	8	0.03152	50	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-19	0.125	0.0507	4	No	8	0.03171	50	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-20	0.125	0.0566	4	No	8	0.0304	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-21	0.125	0.0676	4	No	8	0.02542	37.5	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-22	0.09048	0.0655	4	No	8	0.02448	25	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-4	0.125	0.0506	4	No	8	0.03068	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-5	0.09681	0.06042	4	No	8	0.02671	25	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-6	0.125	0.0634	4	No	8	0.0249	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-7	0.125	0.0523	4	No	8	0.03261	50	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-8	0.1199	0.06559	4	No	8	0.02562	12.5	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-9	0.1611	0.09812	4	No	8	0.02973	0	No	0.01	Param.
Lead (mg/L)	GN-AP-MW-11	0.000203	0.000107	0.015	No	8	0.00003394	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-13	0.0002	0.000106	0.015	No	8	0.00003323	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-17	0.000203	0.00007	0.015	No	8	0.00004702	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-19	0.0002	0.00019	0.015	No	8	0.000003536	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-5	0.005	0.0001	0.015	No	8	0.002504	37.5	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-15R	0.09779	0.02231	0.04	No	8	0.05469	0	ln(x)	0.01	Param.
Lithium (mg/L)	GN-AP-MW-16	0.1608	0.08494	0.04	Yes	8	0.03579	0	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-17	1.184	0.7526	0.04	Yes	8	0.2037	0	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-18	0.0507	0.0456	0.04	Yes	8	0.002245	0	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-20	0.1396	0.121	0.04	Yes	8	0.008927	0	x^2	0.01	Param.
Lithium (mg/L)	GN-AP-MW-5	0.03088	0.002857	0.04	No	8	0.01182	50	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-6	0.02	0.00779	0.04	No	8	0.004276	75	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-10	0.01	0.000158	0.1	No	8	0.005067	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-11	0.01	0.00026	0.1	No	8	0.005017	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-12	0.01	0.000272	0.1	No	8	0.005012	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-13	0.01	0.0003	0.1	No	8	0.00501	37.5	No	0.004	NP (normality)

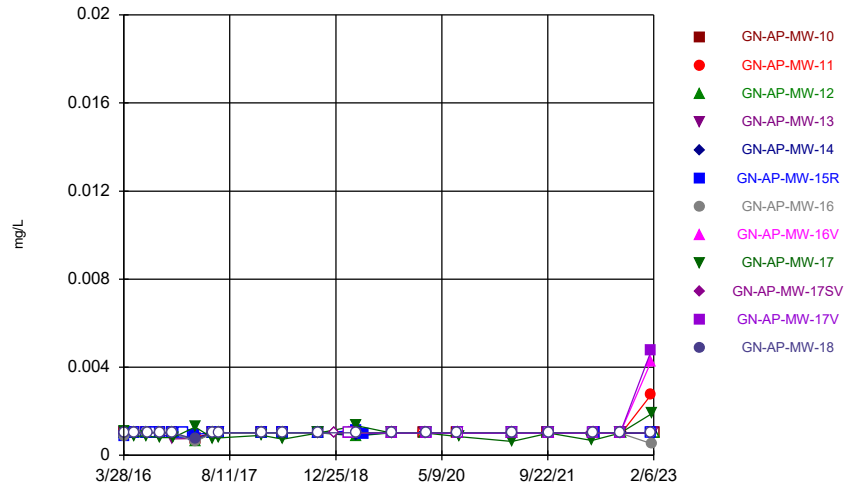
Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/3/2023, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Molybdenum (mg/L)	GN-AP-MW-14	0.01	0.000298	0.1	No	8	0.004866	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-15R	0.307	0.137	0.1	Yes	8	0.05831	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-16	0.556	0.32	0.1	Yes	8	0.1049	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-17	3.334	2.574	0.1	Yes	8	0.3587	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-18	0.071	0.0228	0.1	No	8	0.02146	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-19	0.01479	0.01288	0.1	No	8	0.0008991	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-20	0.8733	0.7842	0.1	Yes	8	0.04205	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-21	0.01462	0.008023	0.1	No	8	0.003111	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-22	0.07418	0.03077	0.1	No	8	0.02048	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-4	0.01	0.000137	0.1	No	8	0.004982	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-5	0.261	0.0299	0.1	No	8	0.0905	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-6	0.01621	0.007496	0.1	No	8	0.004109	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-7	0.01	0.00021	0.1	No	8	0.005023	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-8	0.01	0.000577	0.1	No	8	0.004764	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-9	0.01	0.000821	0.1	No	8	0.004612	37.5	No	0.004	NP (normality)
Selenium (mg/L)	GN-AP-MW-10	0.00102	0.000532	0.05	No	8	0.0002218	75	No	0.004	NP (NDs)
Selenium (mg/L)	GN-AP-MW-17	0.001015	0.00059	0.05	No	8	0.0001503	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-16	0.000203	0.000105	0.002	No	8	0.00003465	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-17	0.0002	0.00008	0.002	No	8	0.00005489	62.5	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-18	0.0004864	0.0003909	0.002	No	8	0.00004503	0	No	0.01	Param.

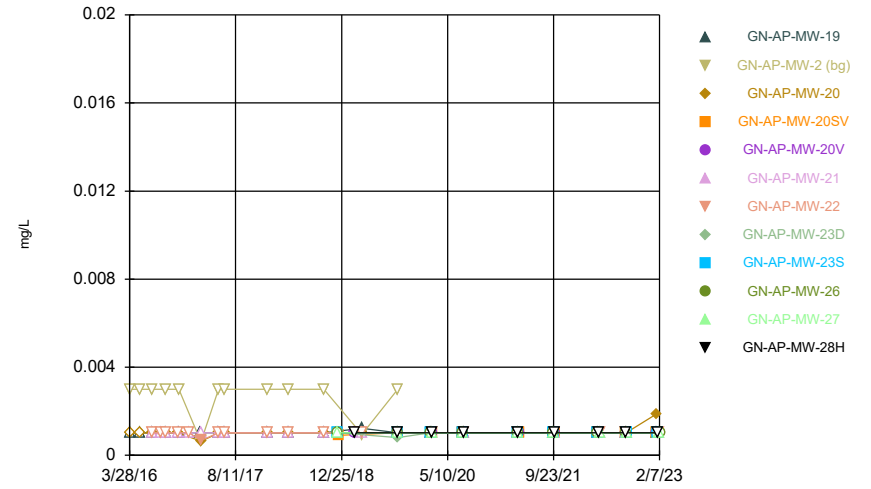
FIGURE A.

Time Series



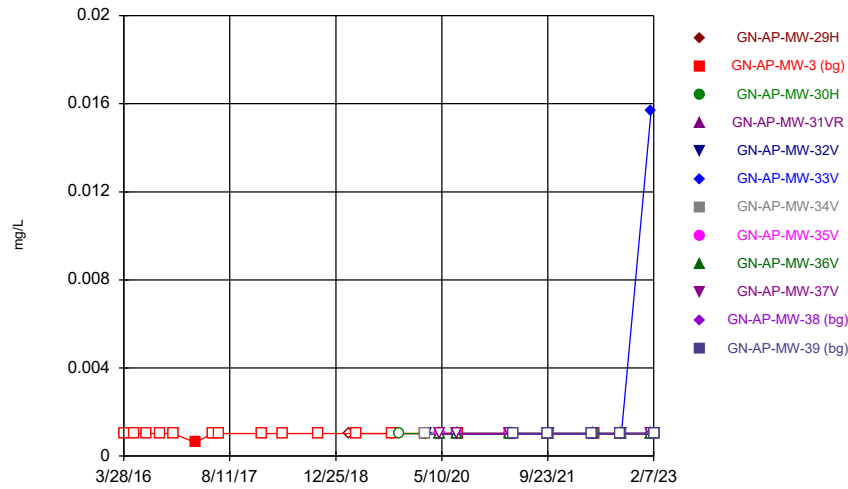
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



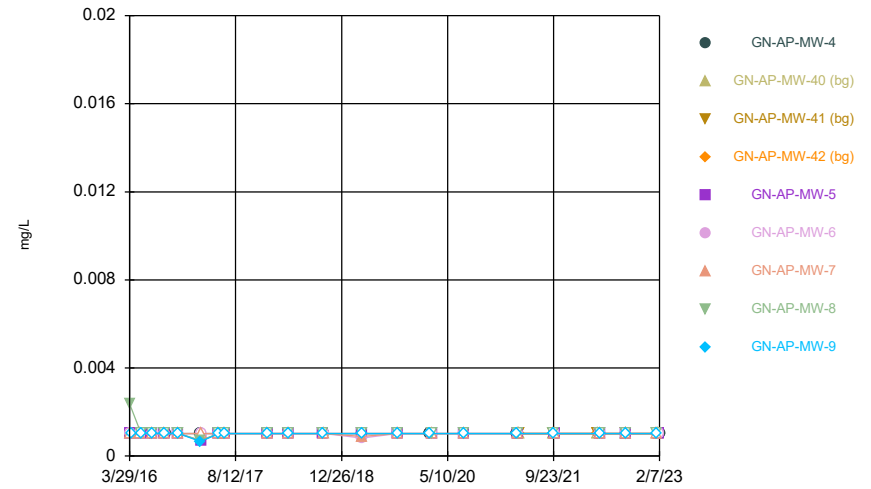
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Time Series



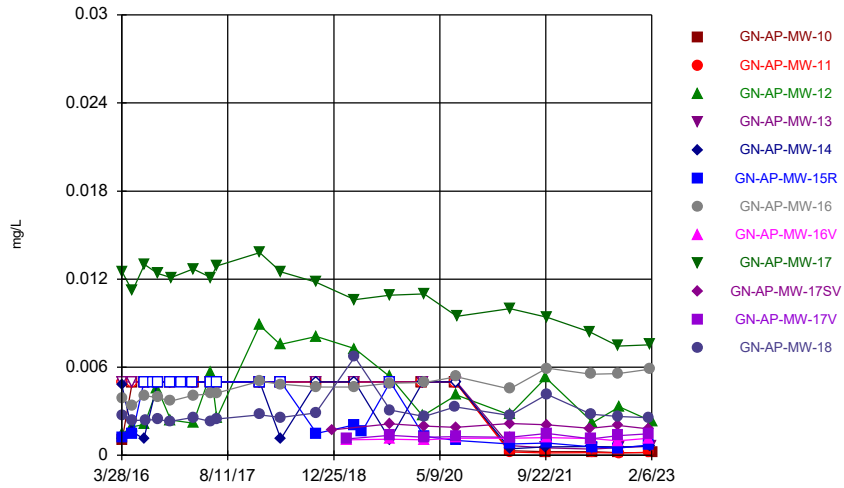
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Time Series



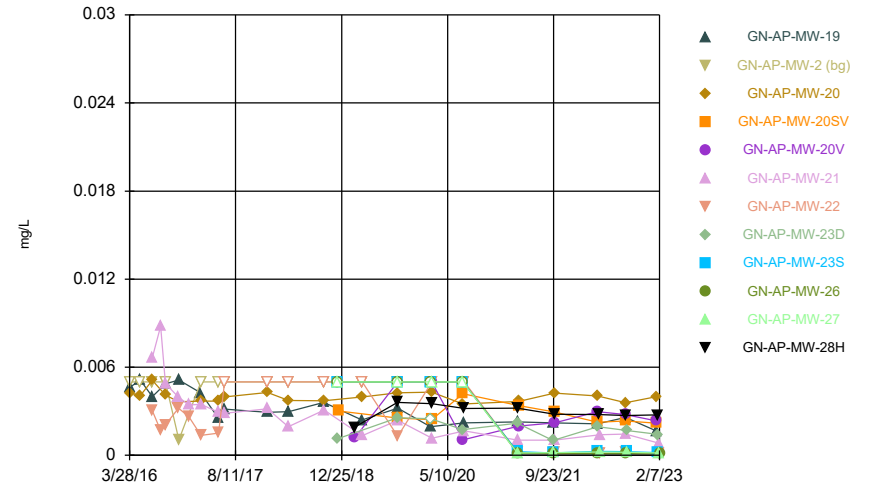
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Time Series



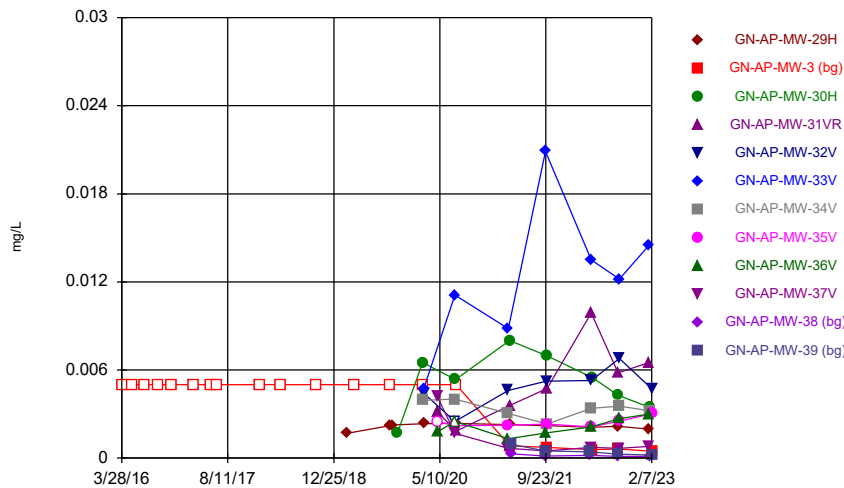
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



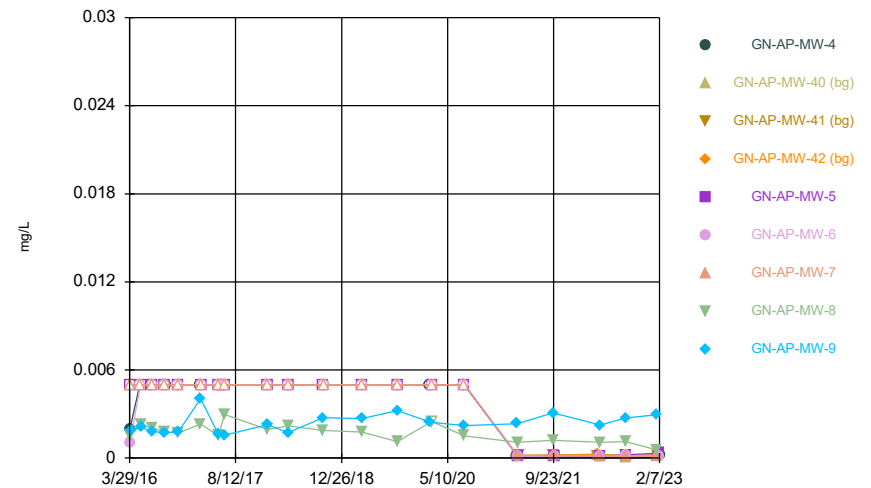
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Time Series



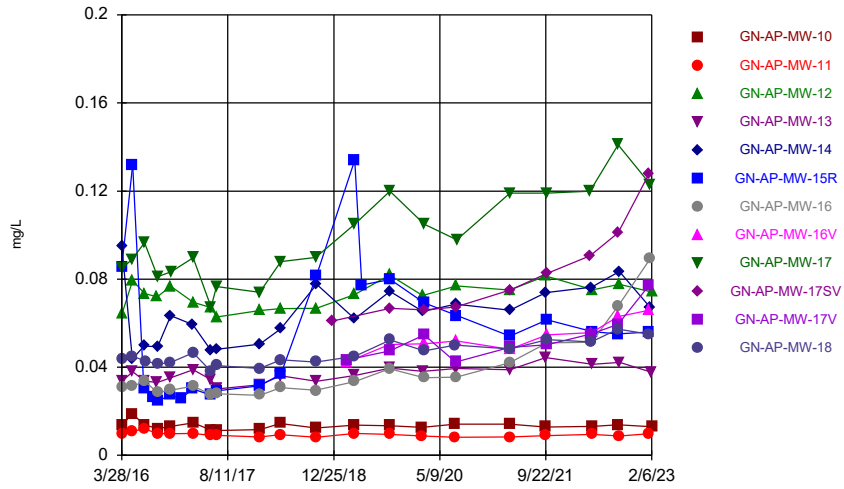
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Time Series



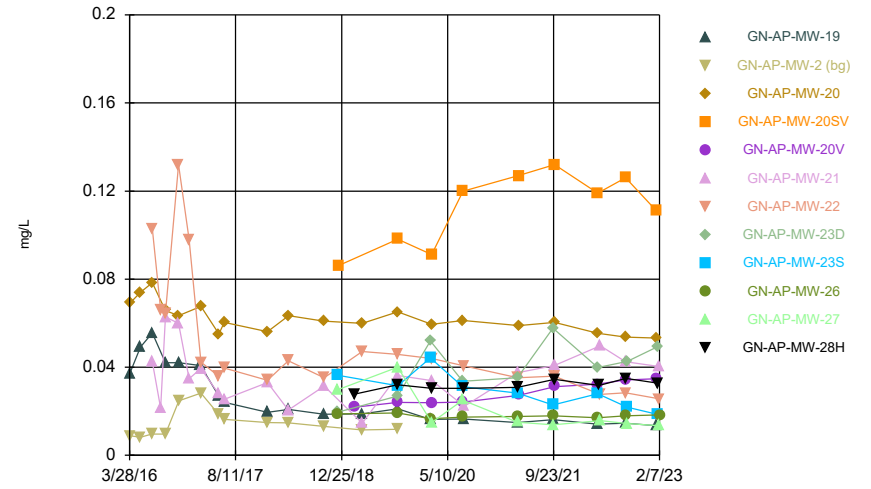
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Time Series



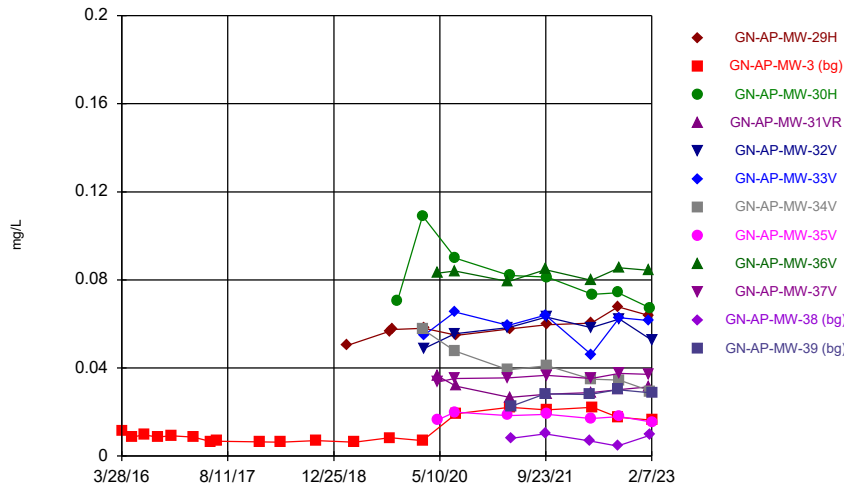
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



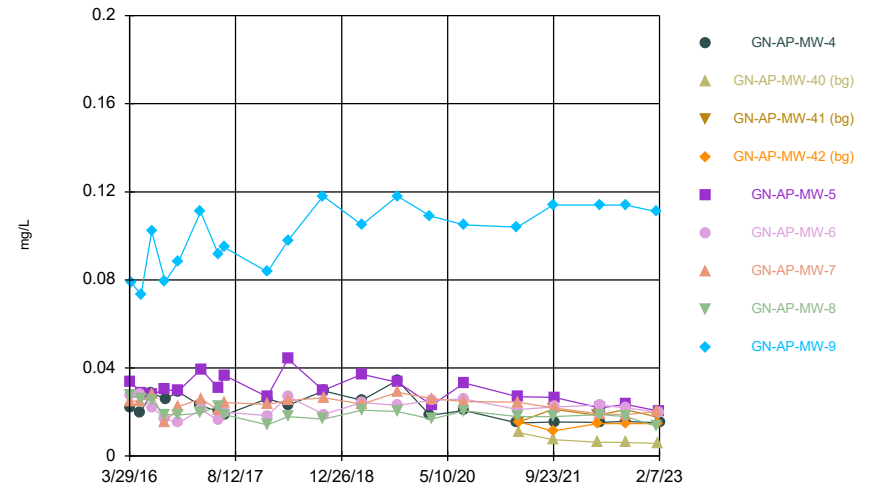
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



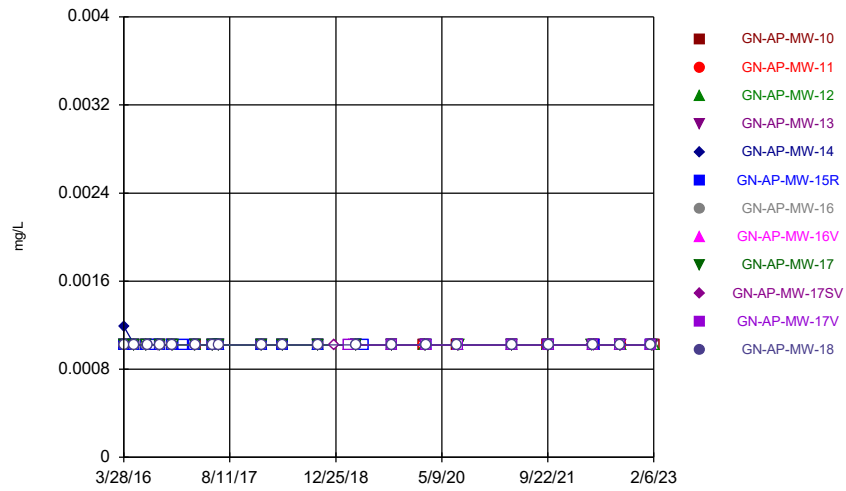
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Time Series



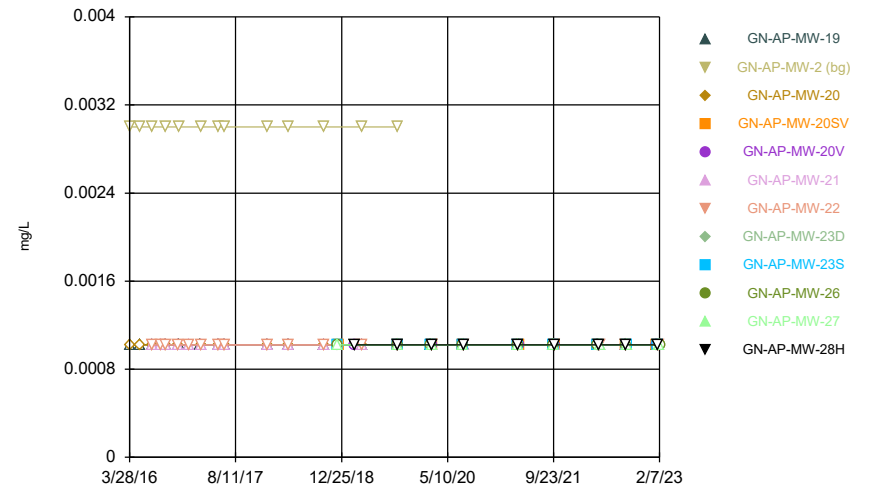
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



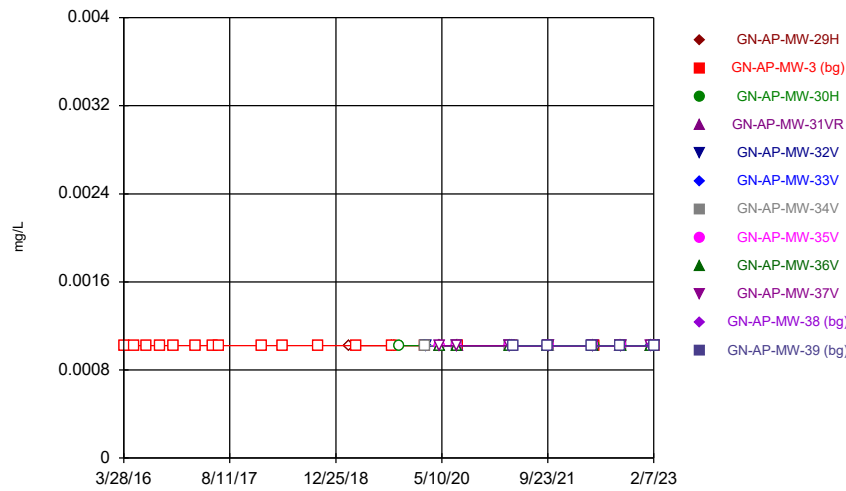
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Time Series



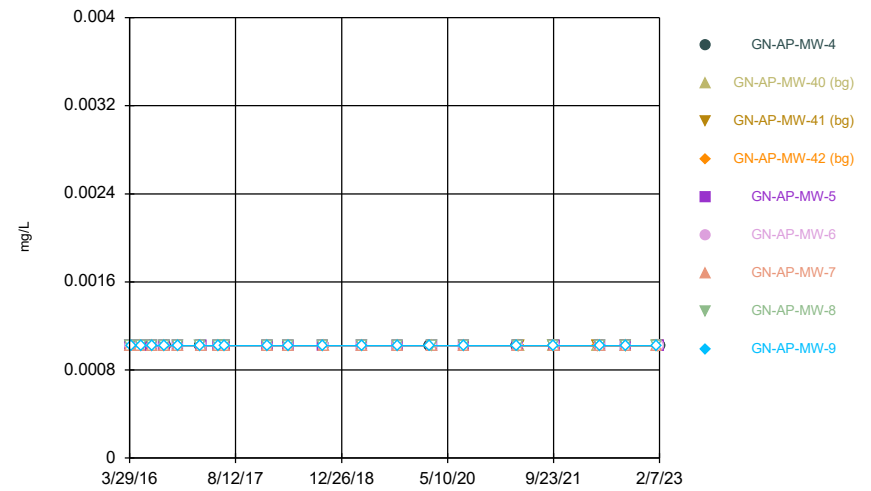
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Time Series



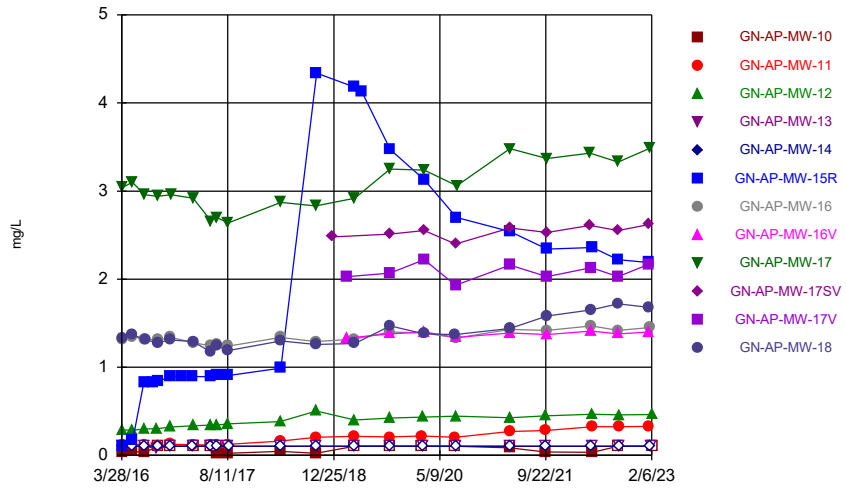
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Time Series



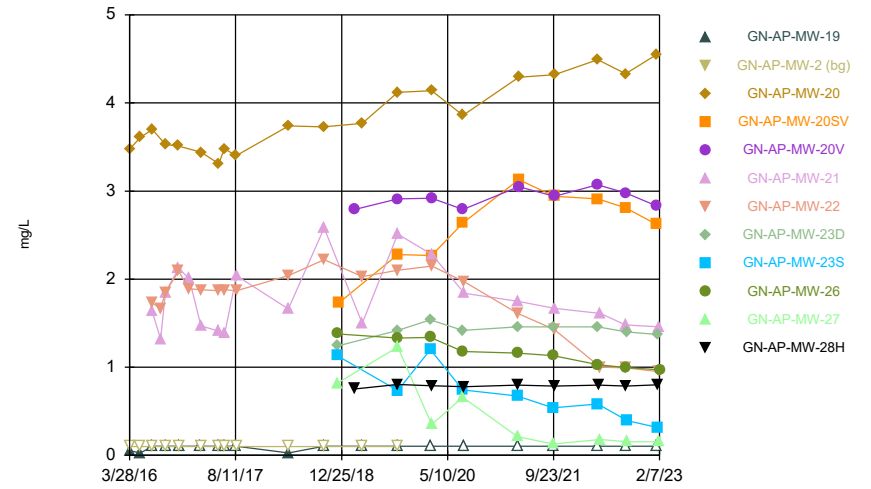
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



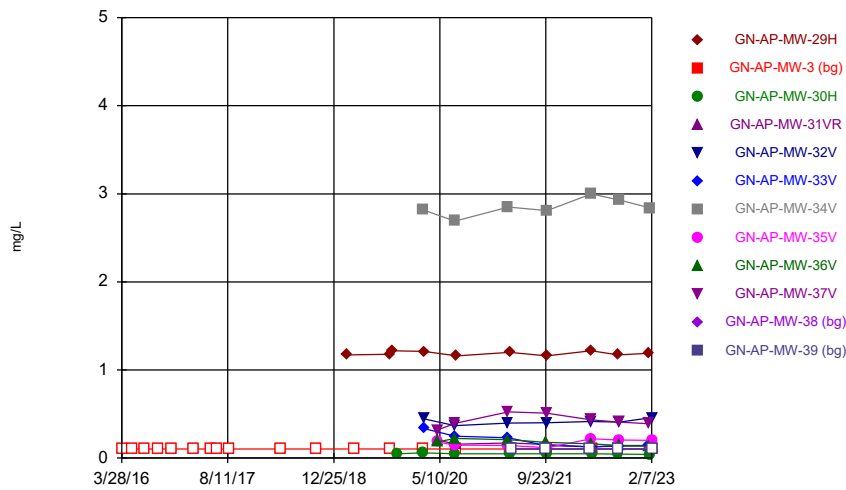
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Time Series



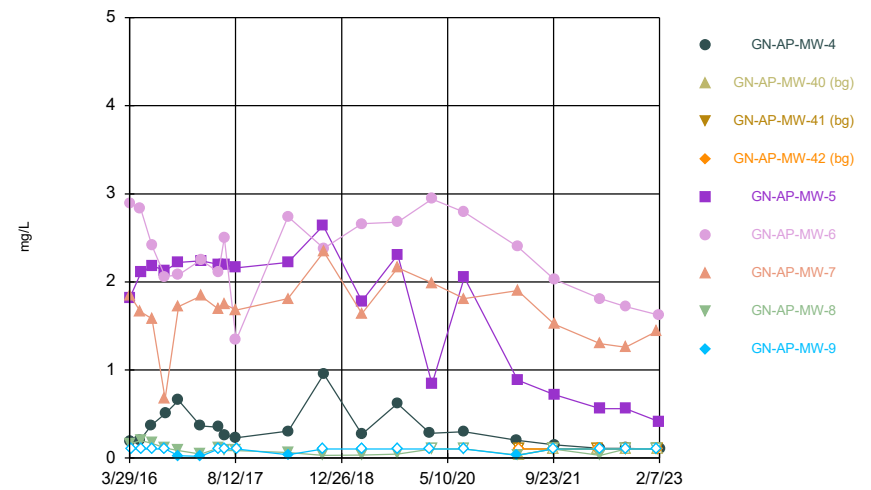
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Time Series



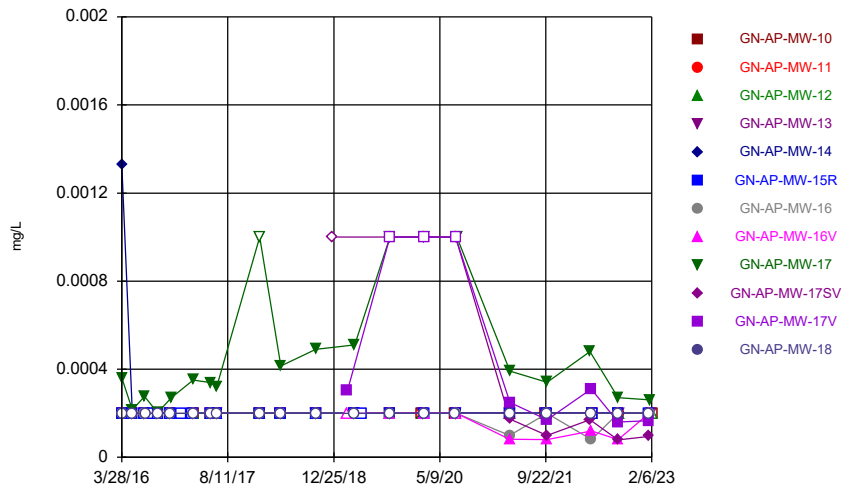
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



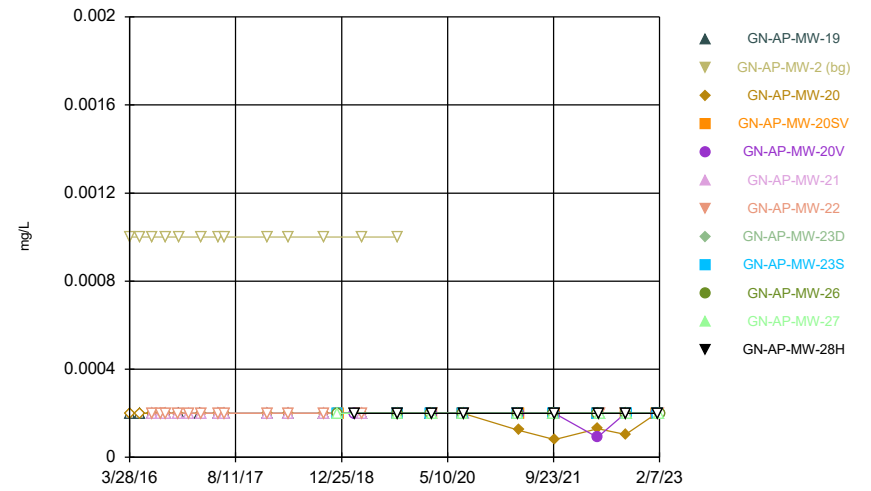
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Time Series



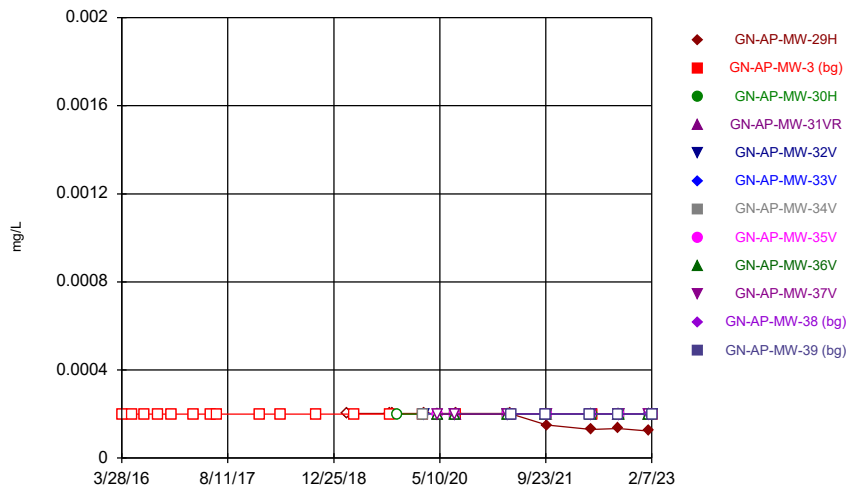
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



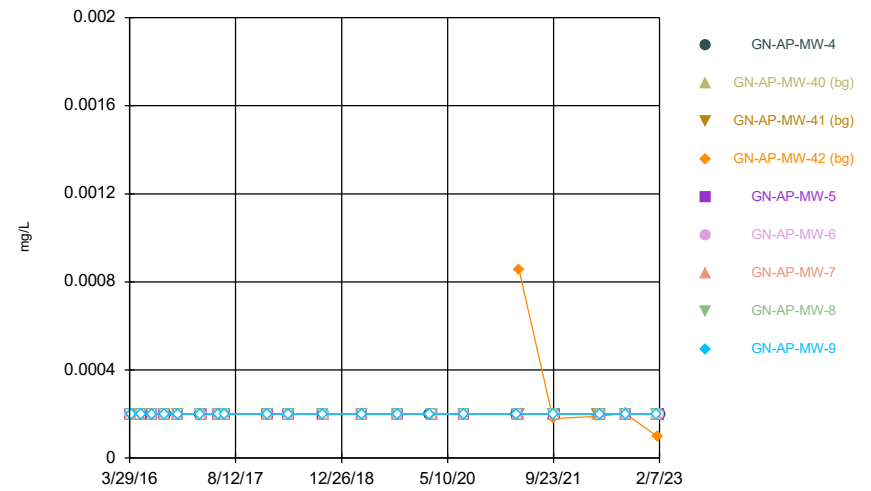
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Time Series



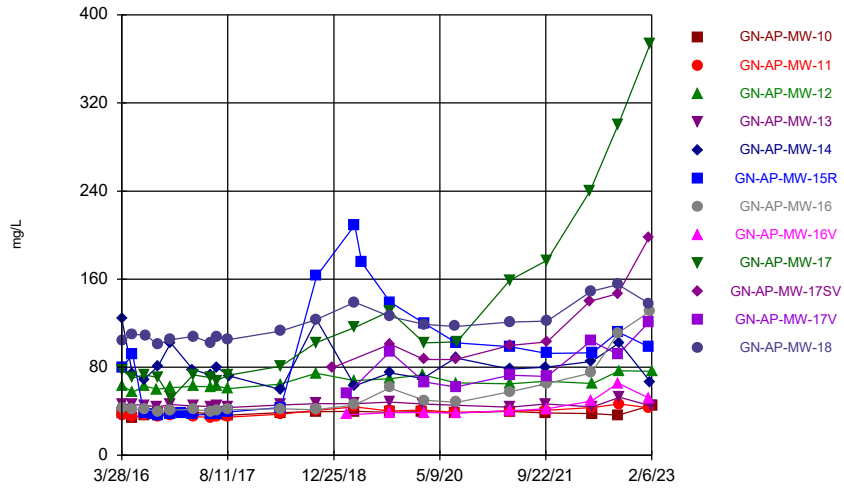
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Time Series



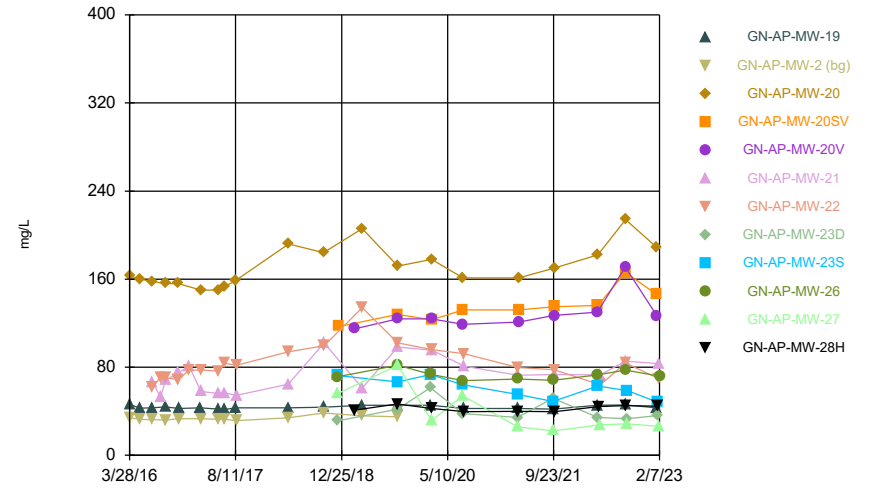
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



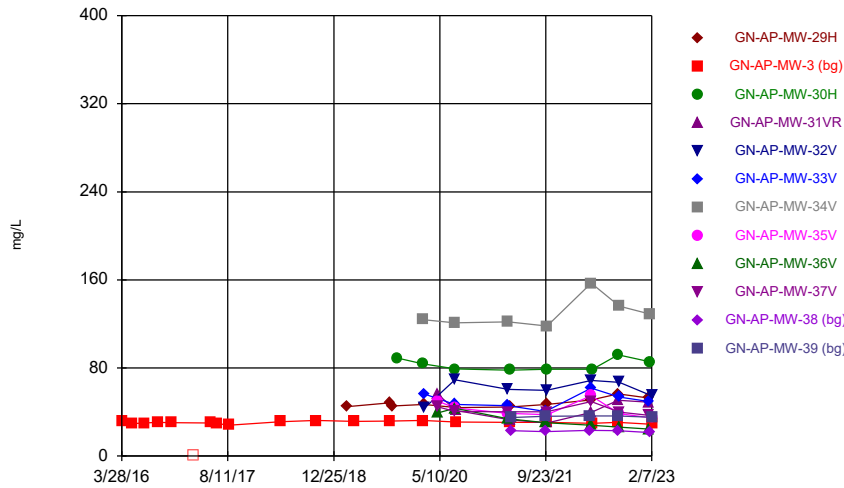
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



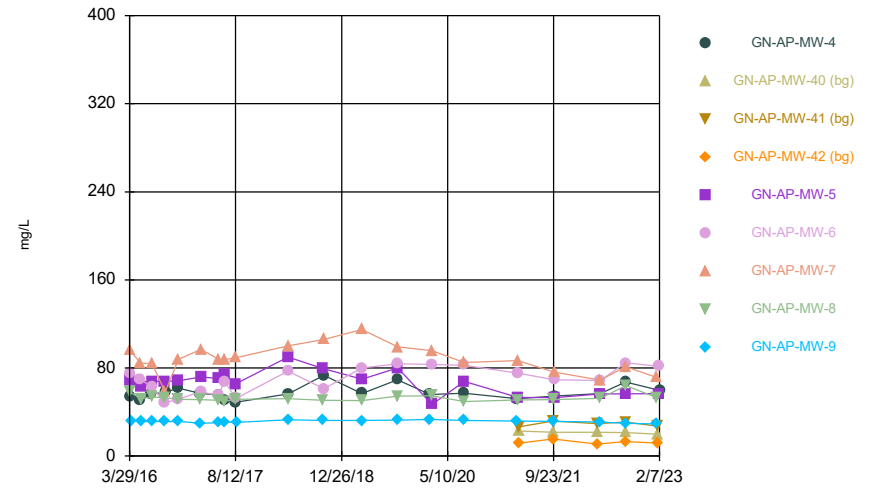
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Time Series



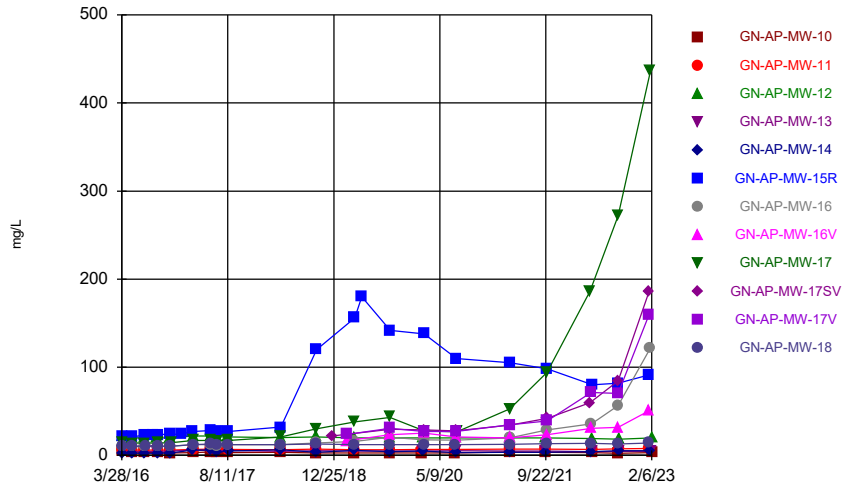
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

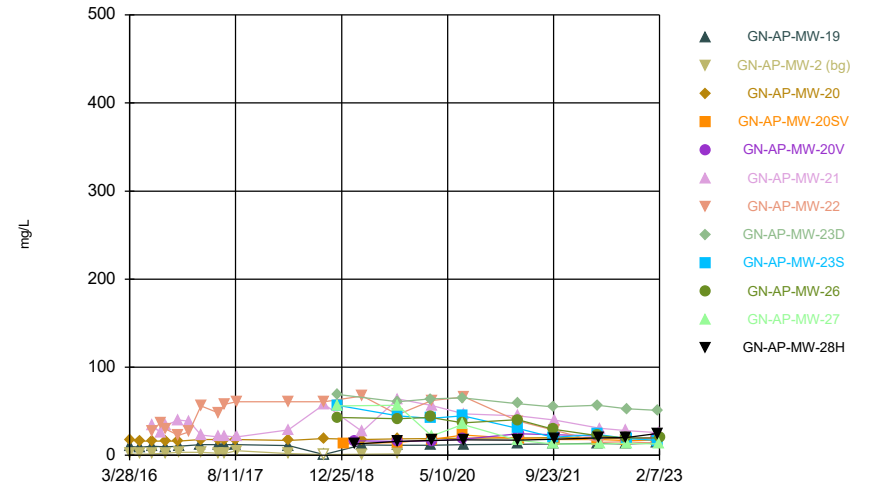
Time Series



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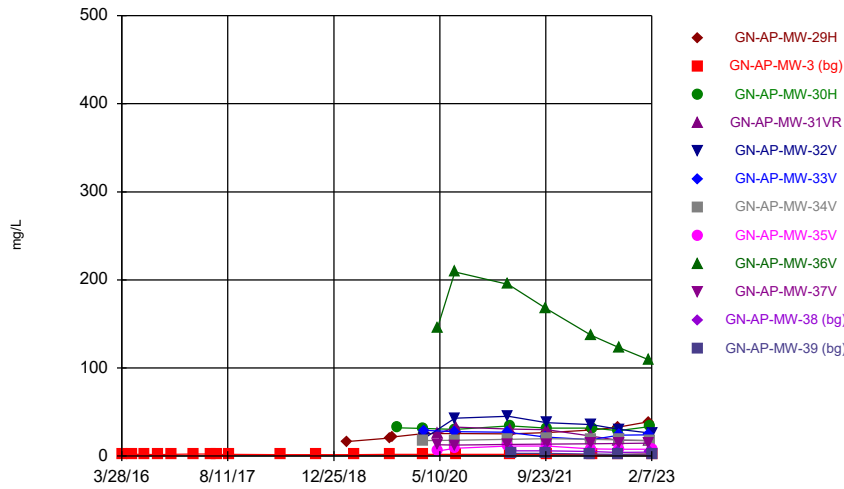
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Time Series



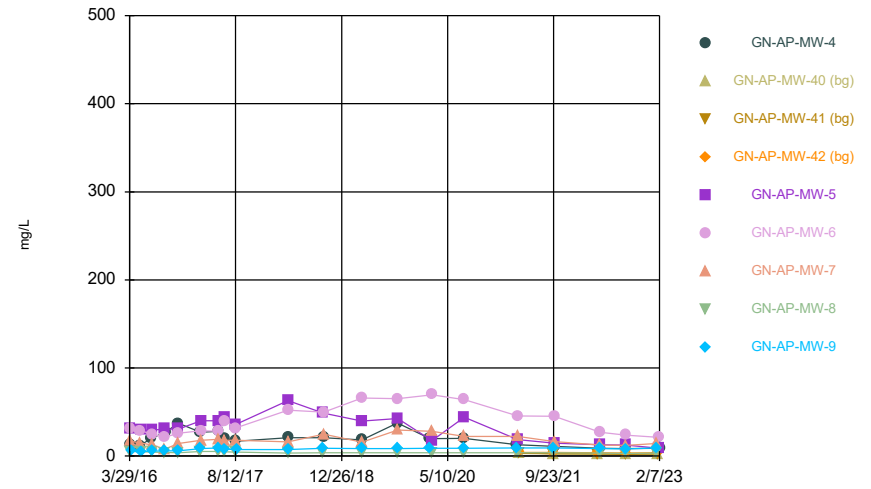
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Time Series



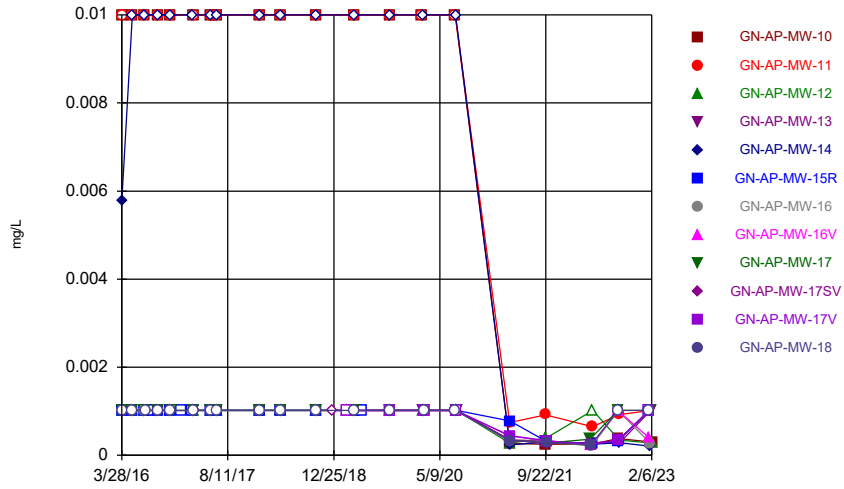
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Time Series



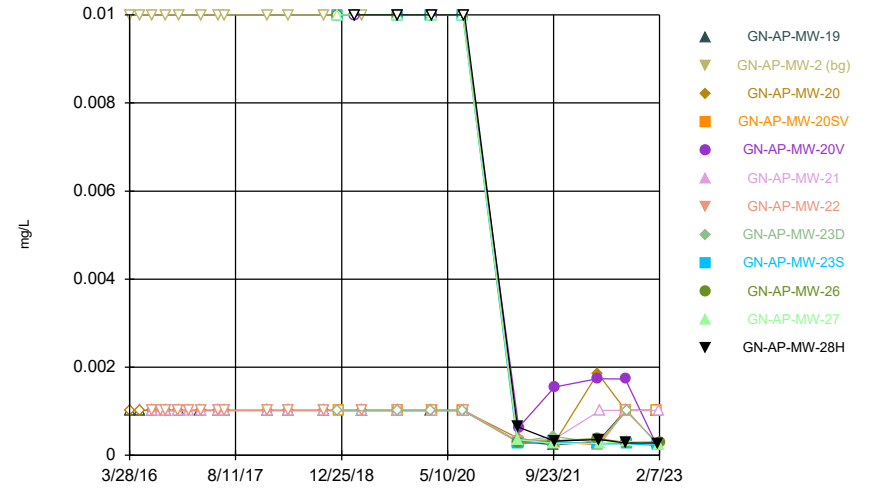
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



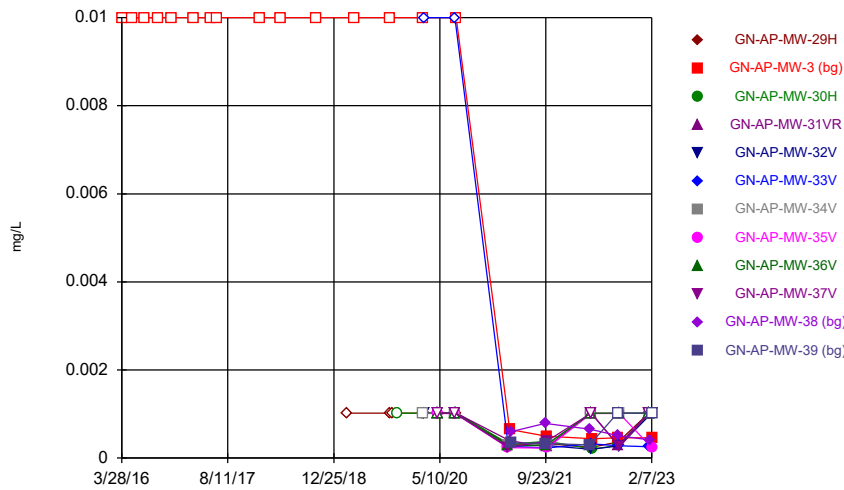
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



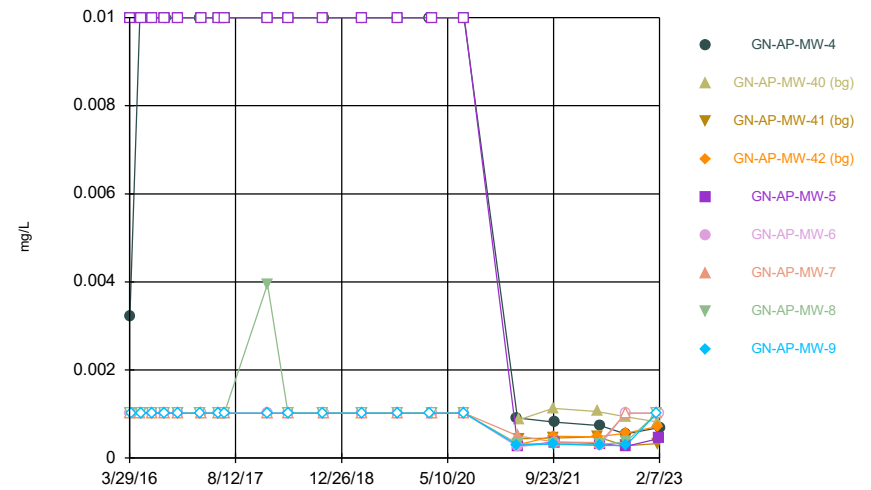
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Time Series



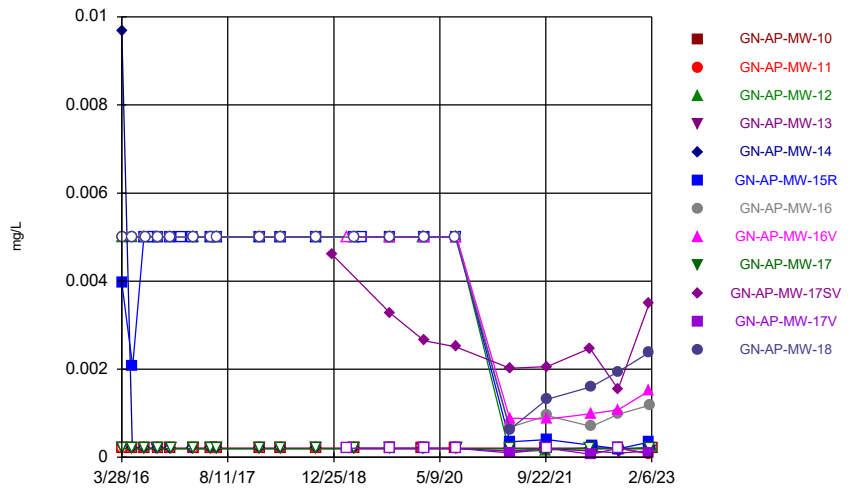
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Time Series



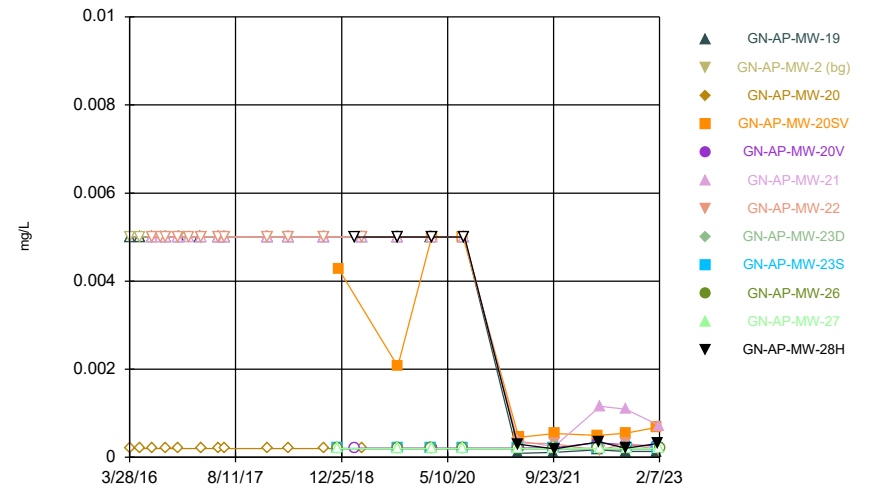
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



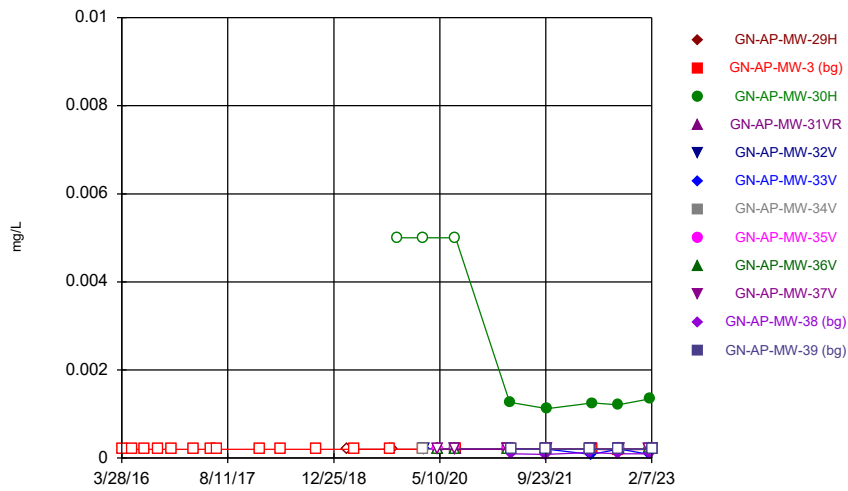
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Time Series



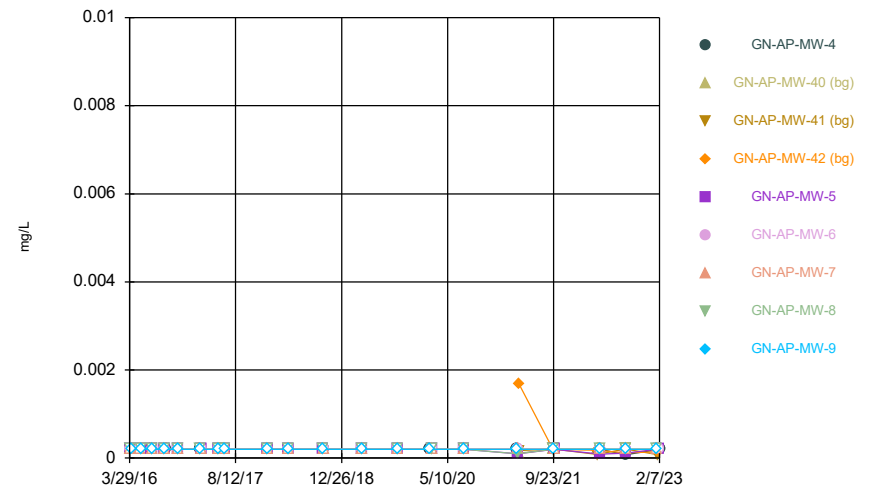
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



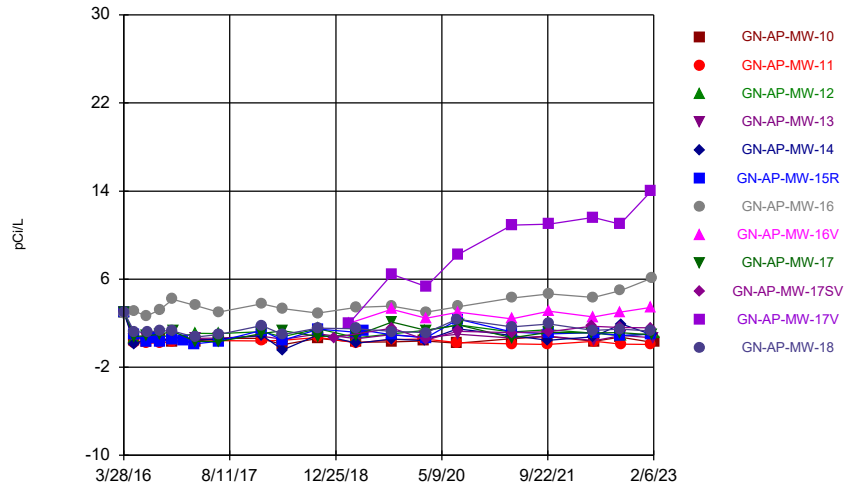
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Time Series



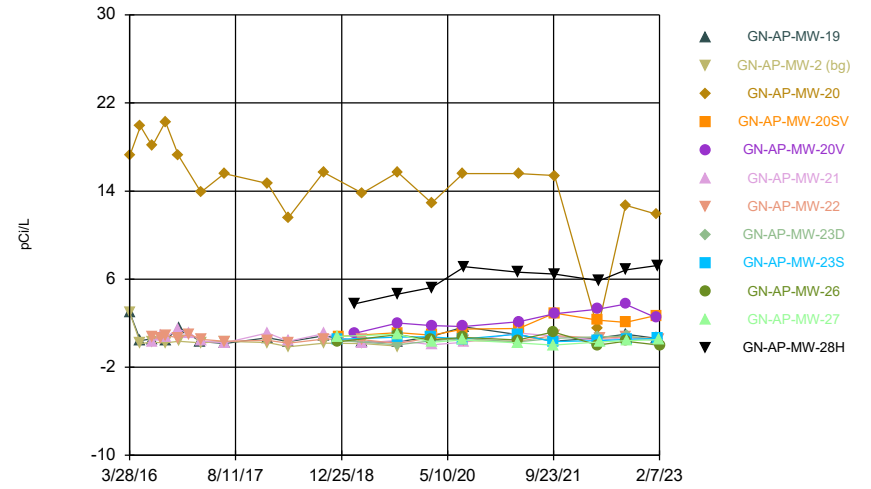
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Time Series



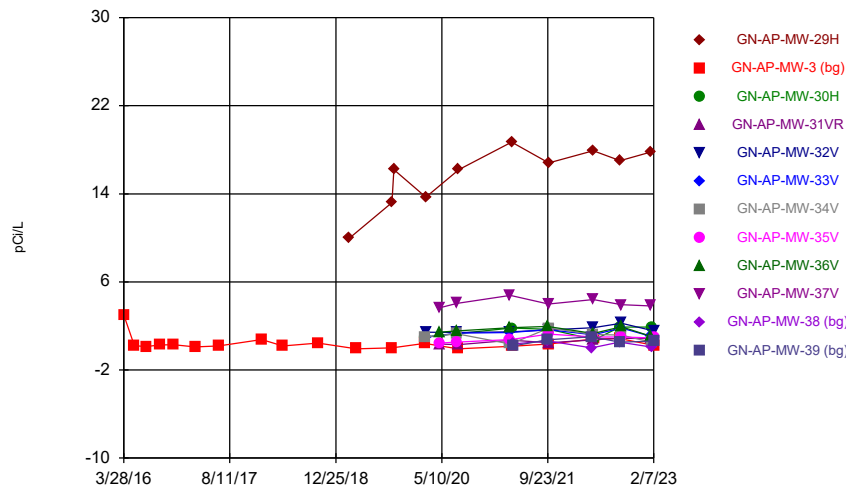
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Time Series



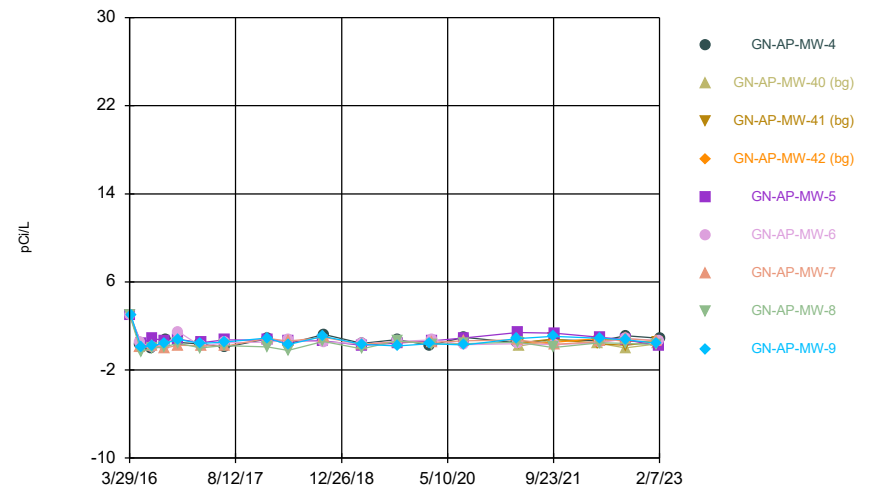
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Time Series



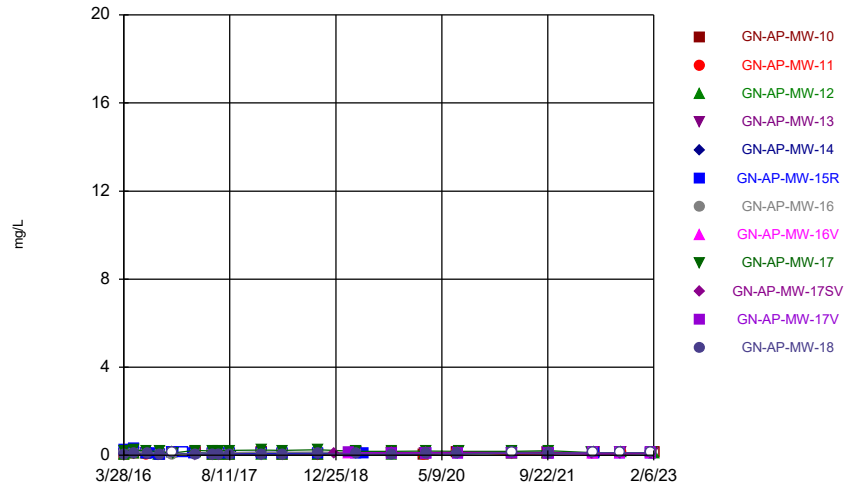
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Time Series



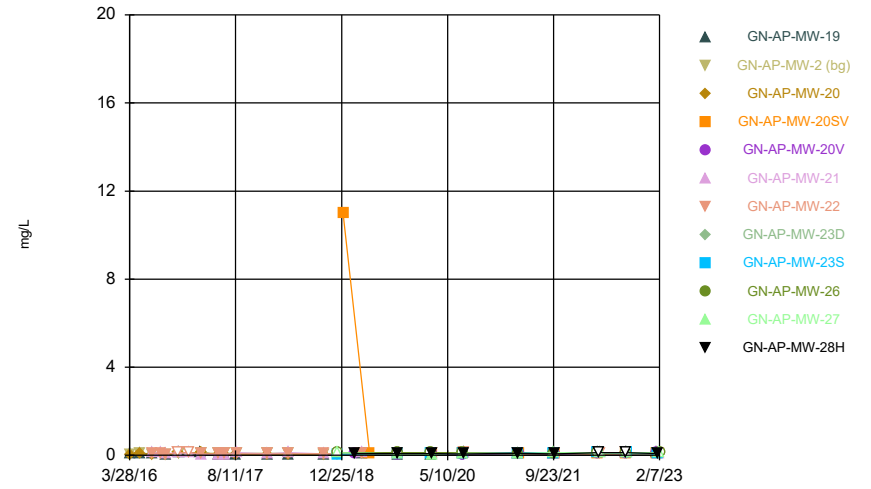
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Time Series



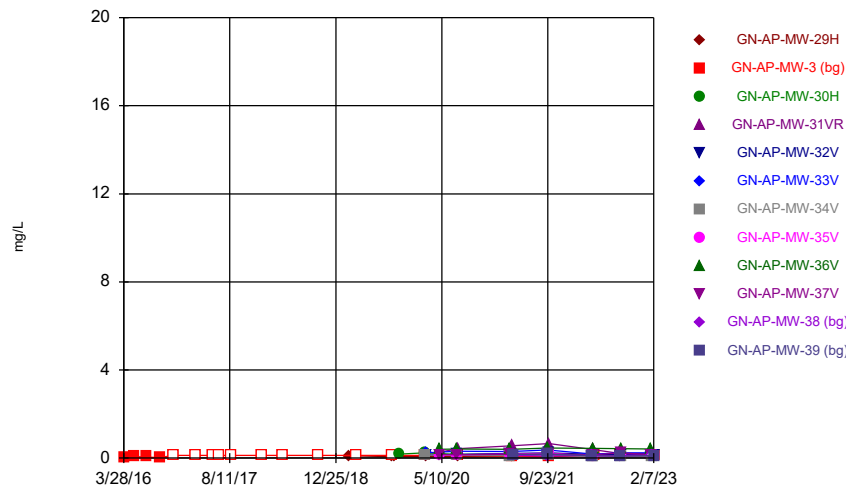
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



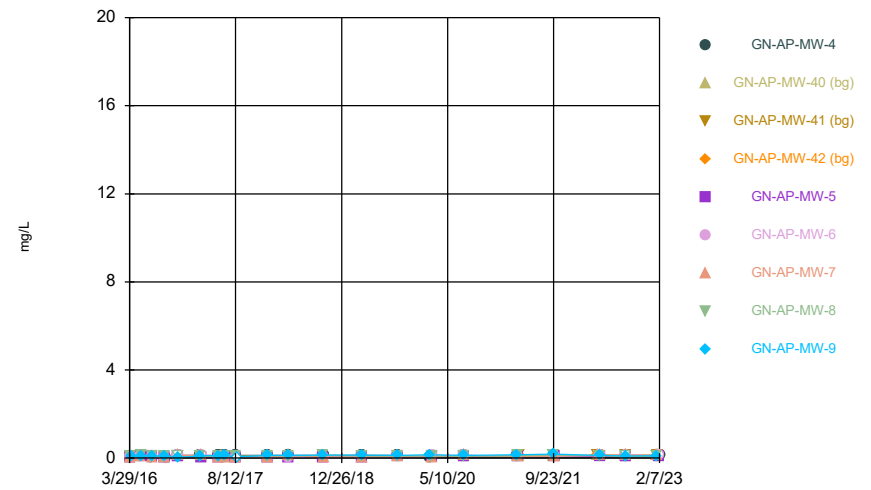
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



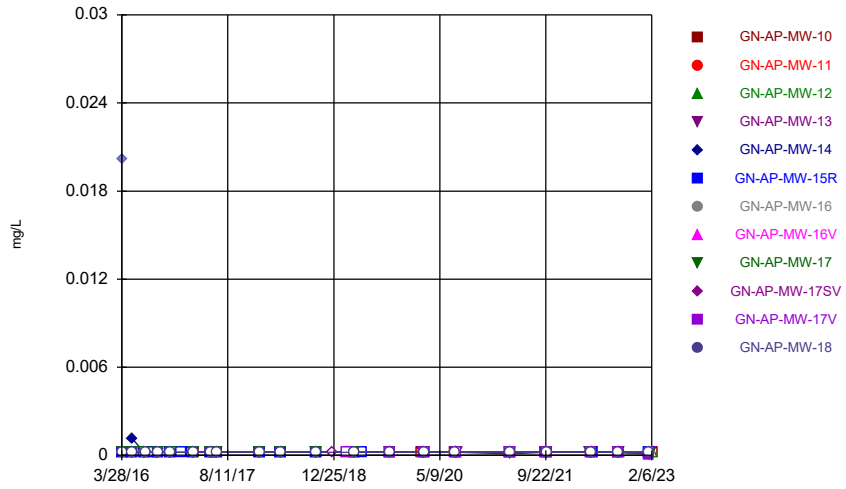
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Time Series



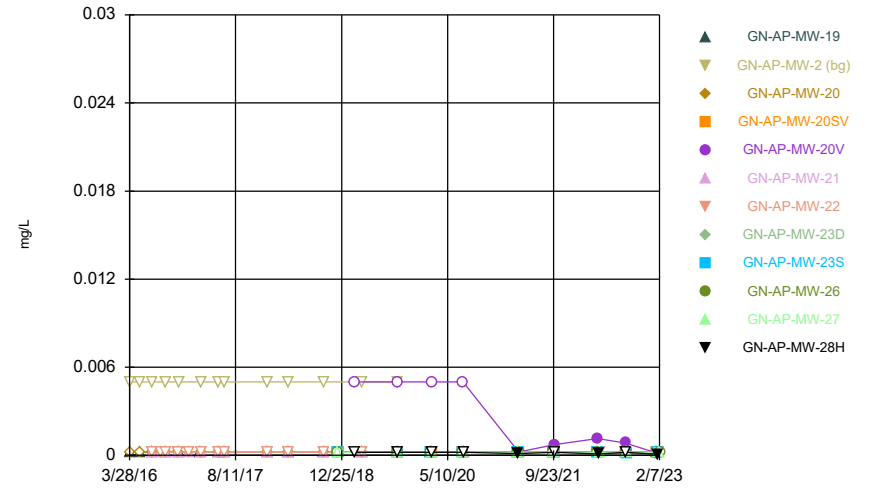
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Time Series



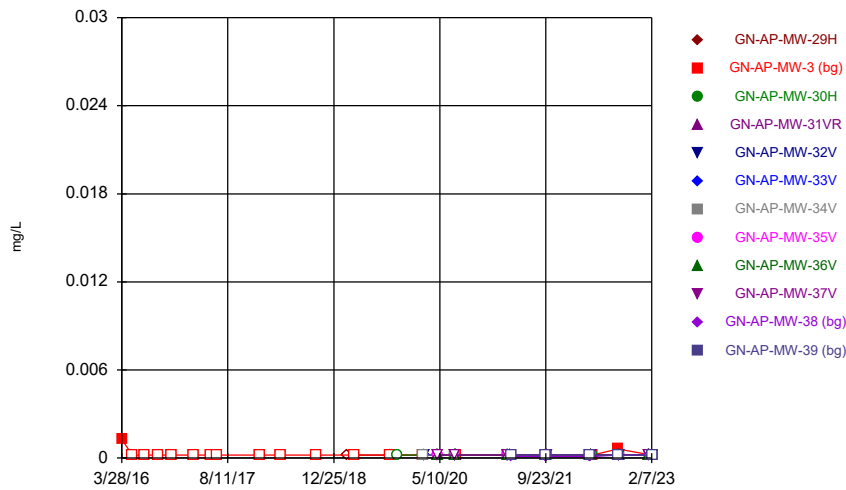
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Time Series



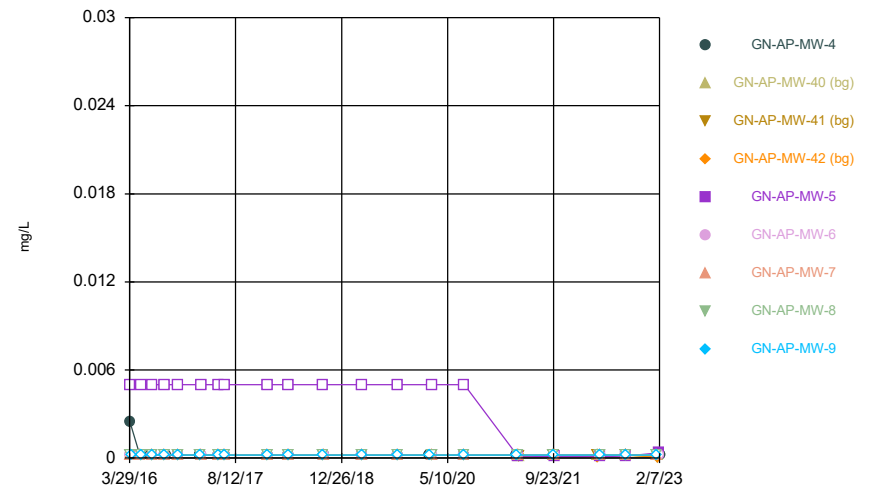
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Time Series



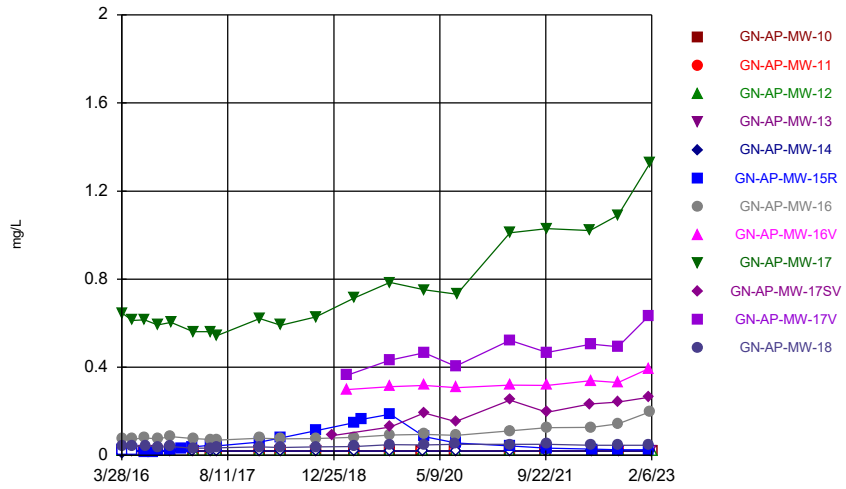
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Time Series



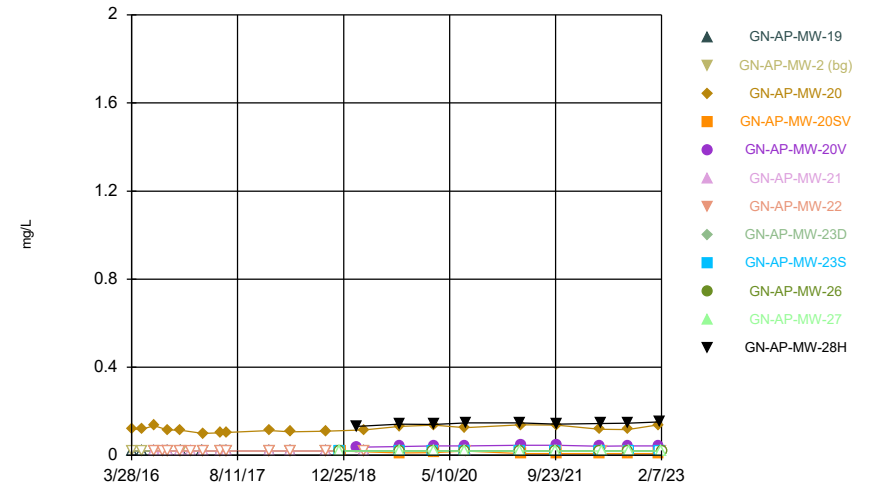
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



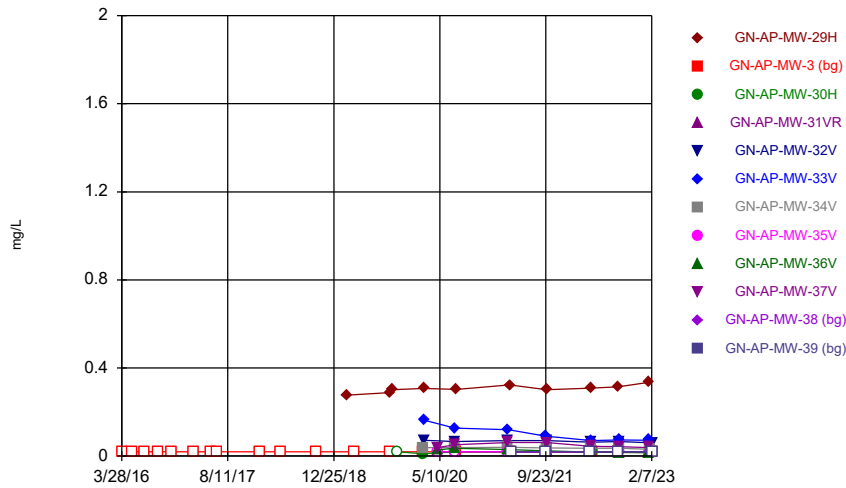
Constituent: Lithium Analysis Run 4/19/2023 5:44 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



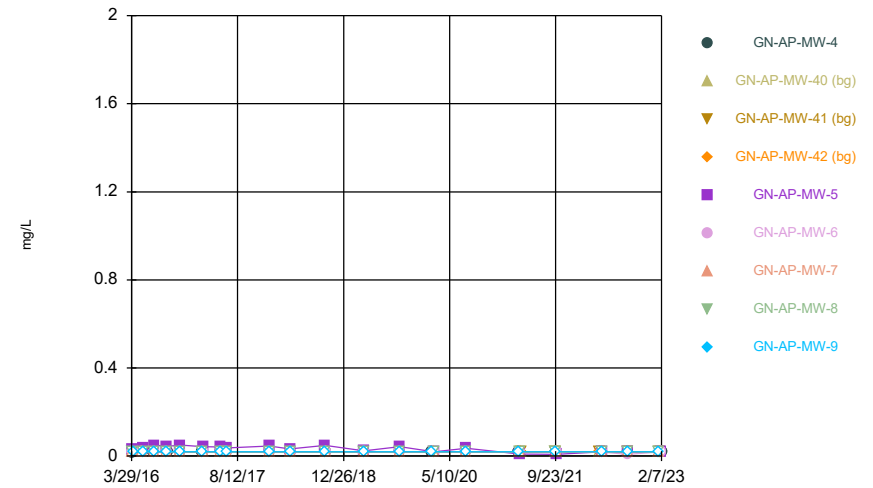
Constituent: Lithium Analysis Run 4/19/2023 5:44 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



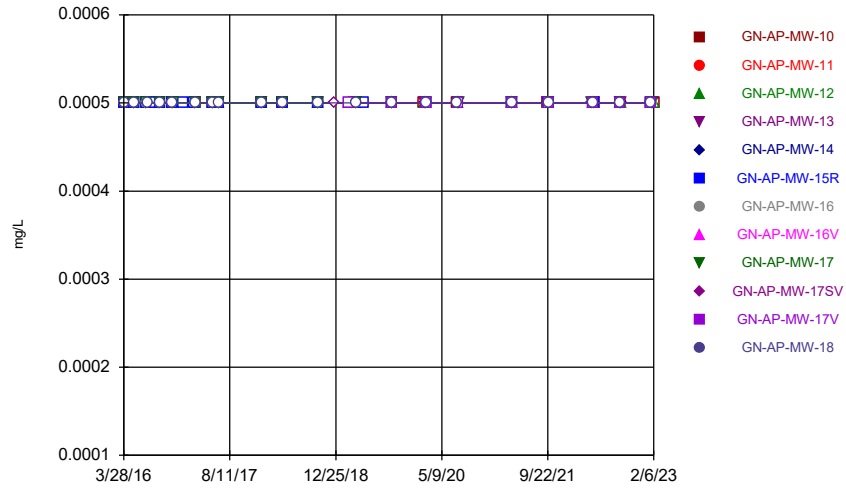
Constituent: Lithium Analysis Run 4/19/2023 5:44 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



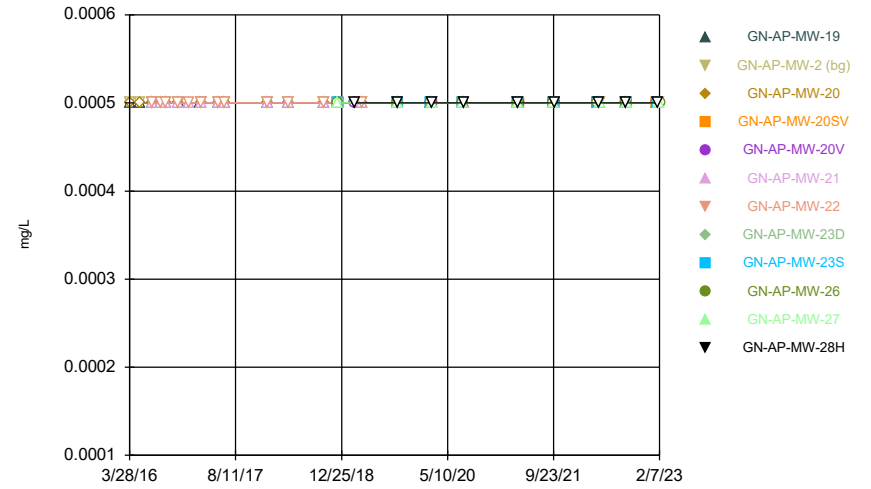
Constituent: Lithium Analysis Run 4/19/2023 5:44 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



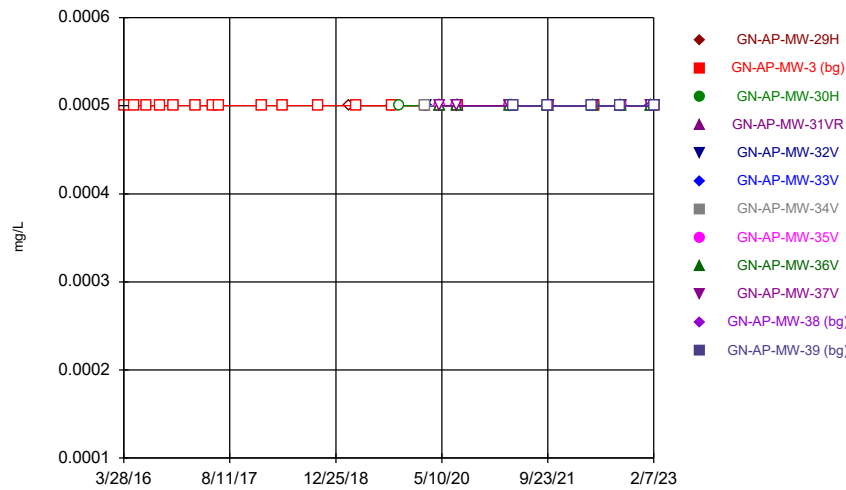
Constituent: Mercury Analysis Run 4/19/2023 5:44 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



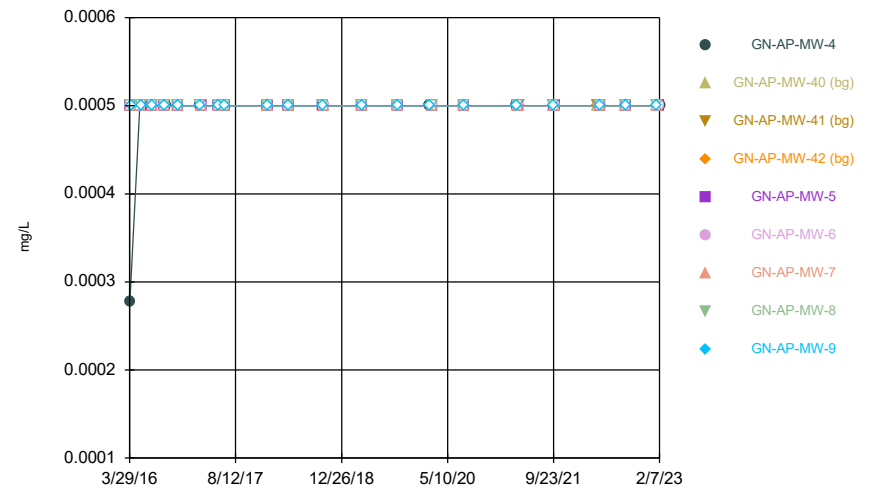
Constituent: Mercury Analysis Run 4/19/2023 5:44 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



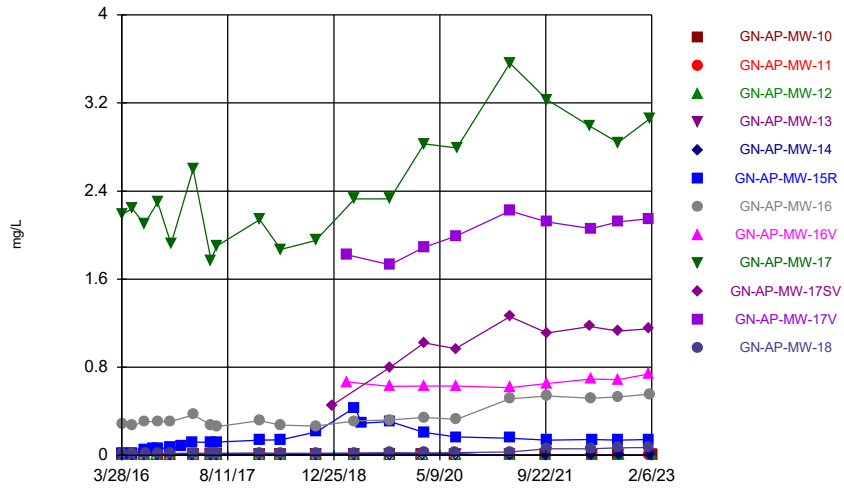
Constituent: Mercury Analysis Run 4/19/2023 5:44 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



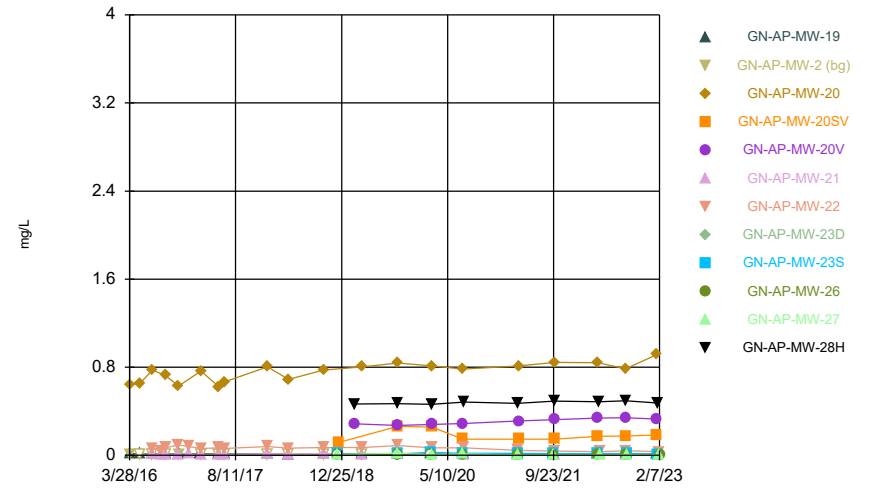
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



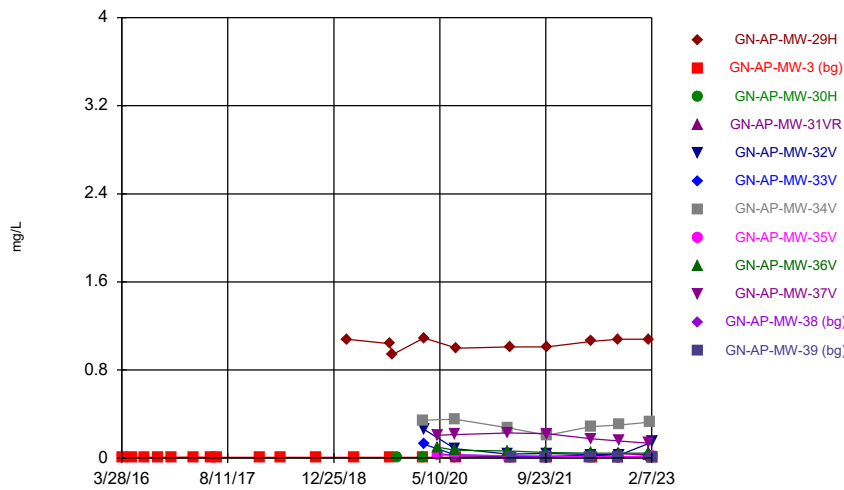
Constituent: Molybdenum Analysis Run 4/19/2023 5:44 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



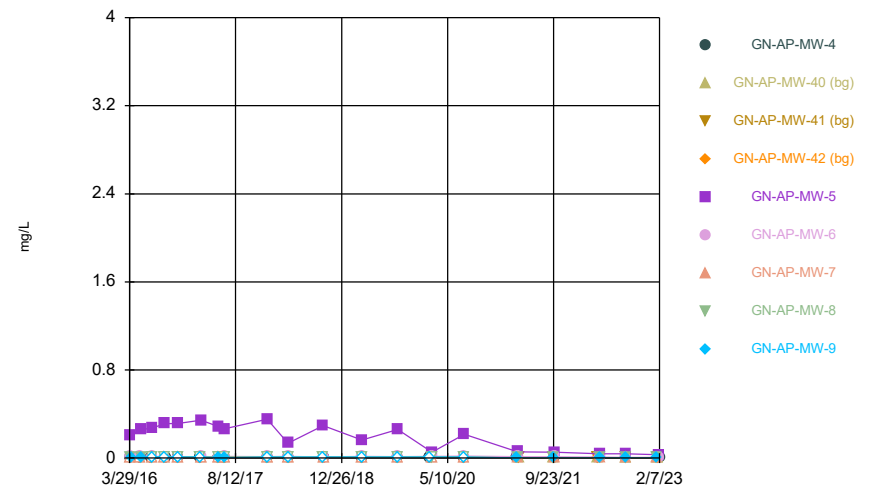
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



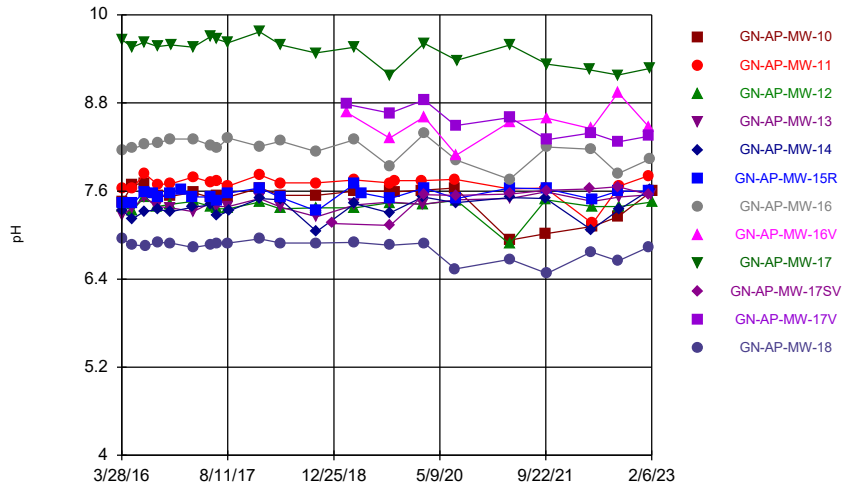
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



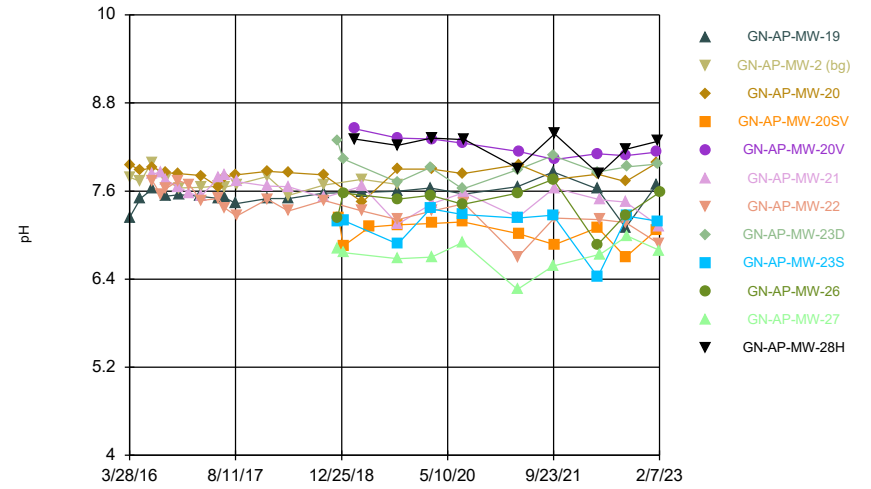
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



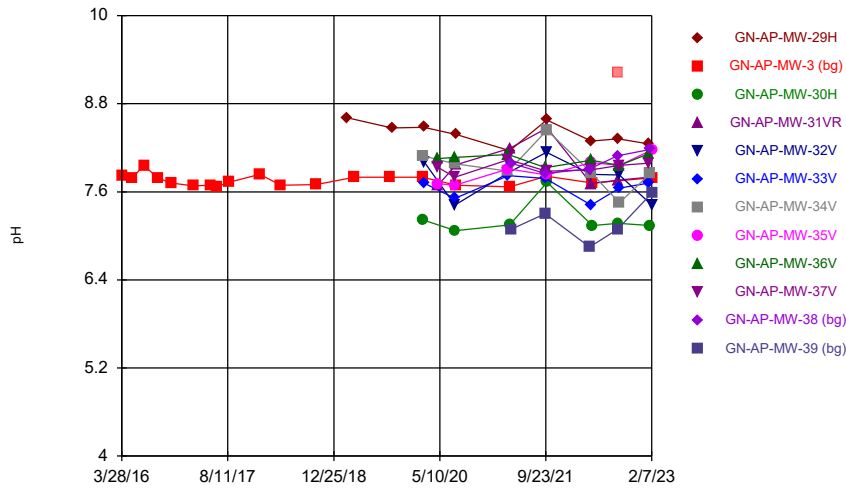
Constituent: pH Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



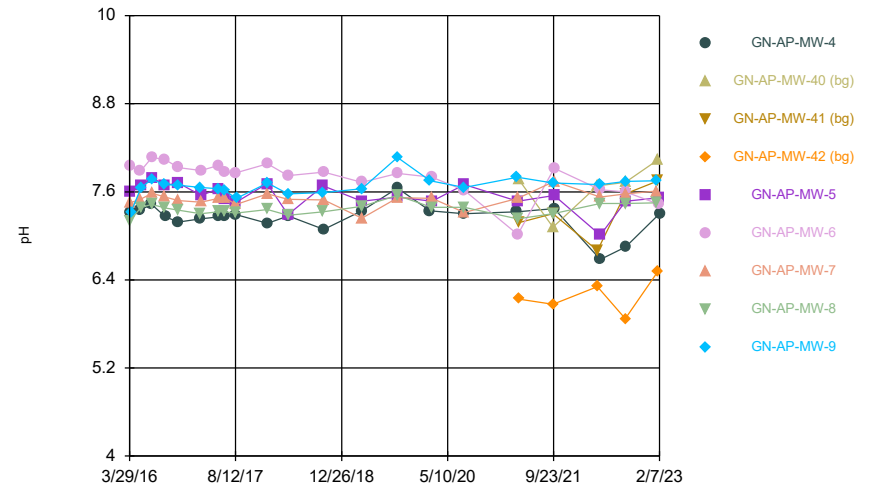
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



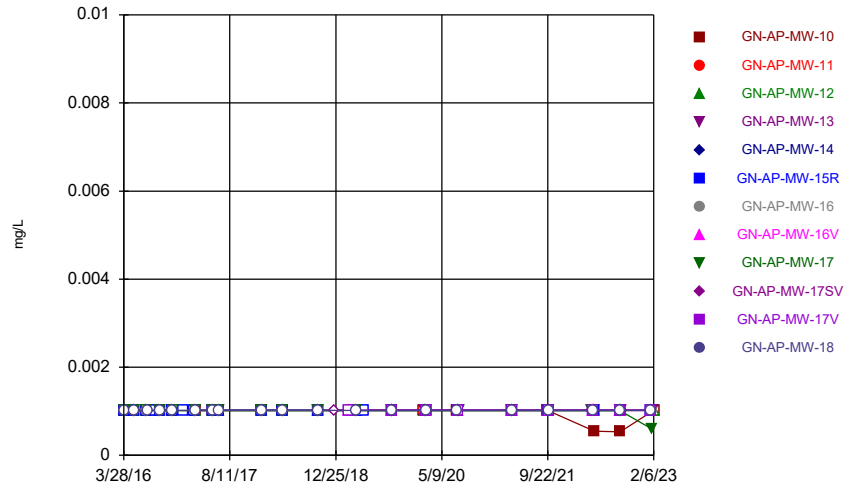
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



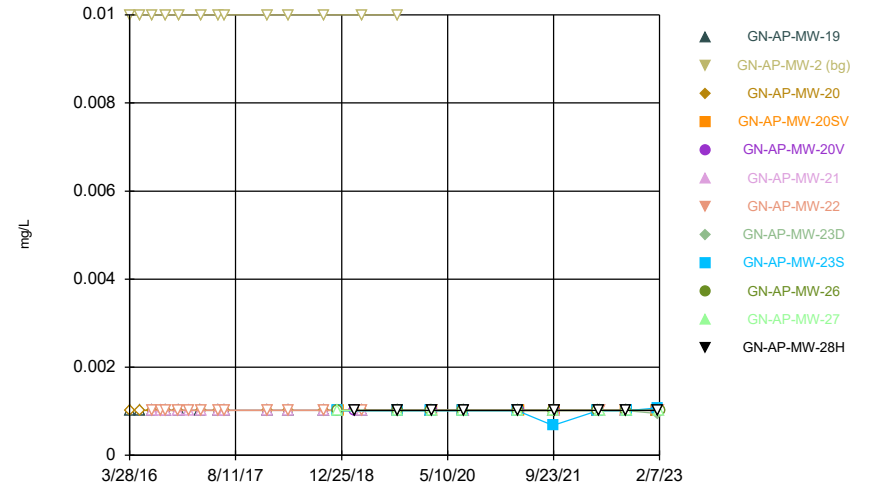
Constituent: pH Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



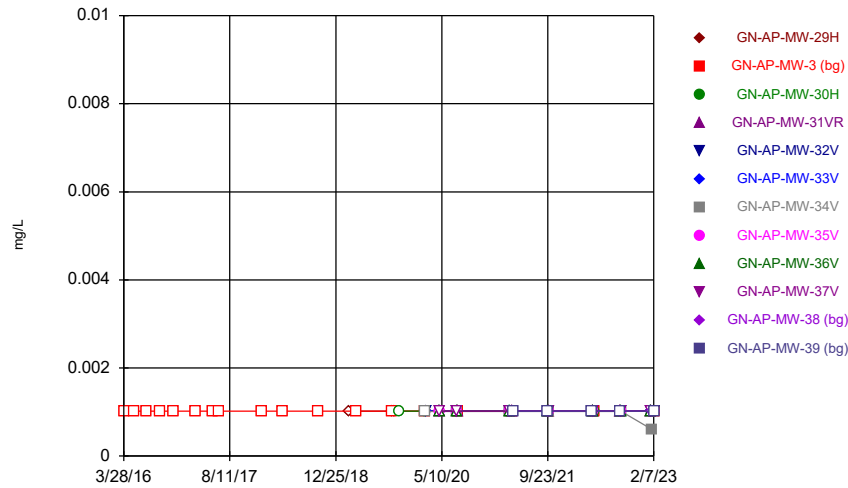
Constituent: Selenium Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



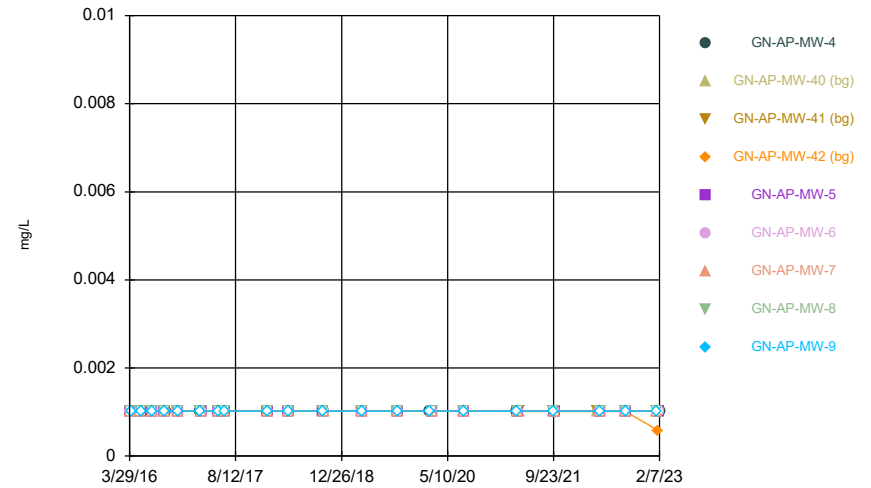
Constituent: Selenium Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



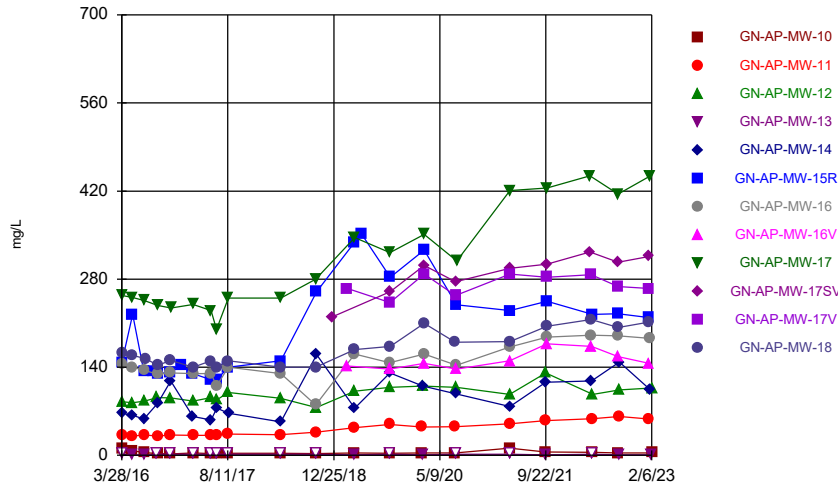
Constituent: Selenium Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



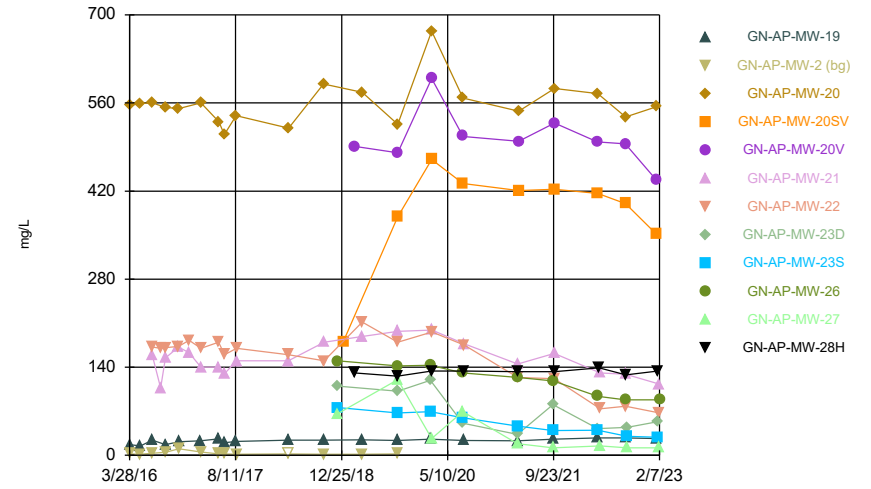
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



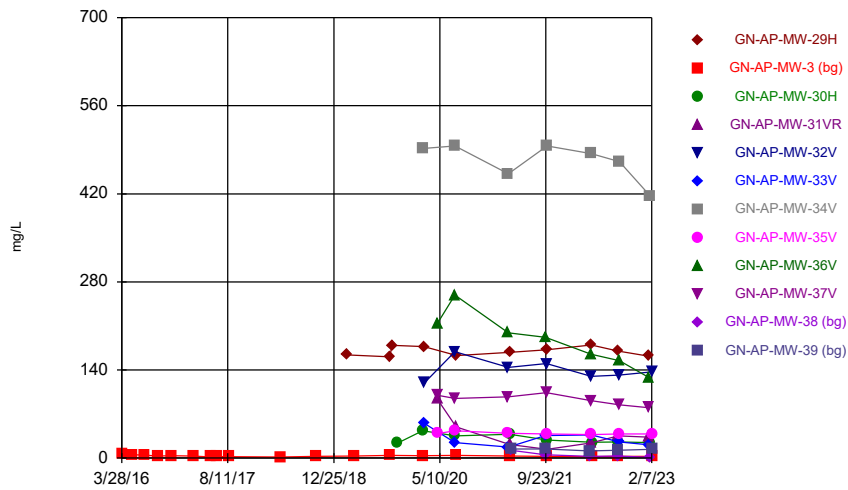
Constituent: Sulfate Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



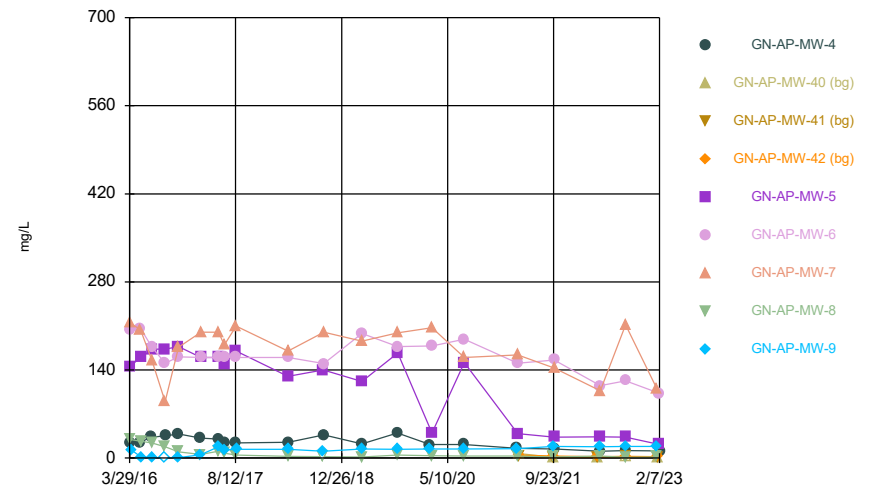
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



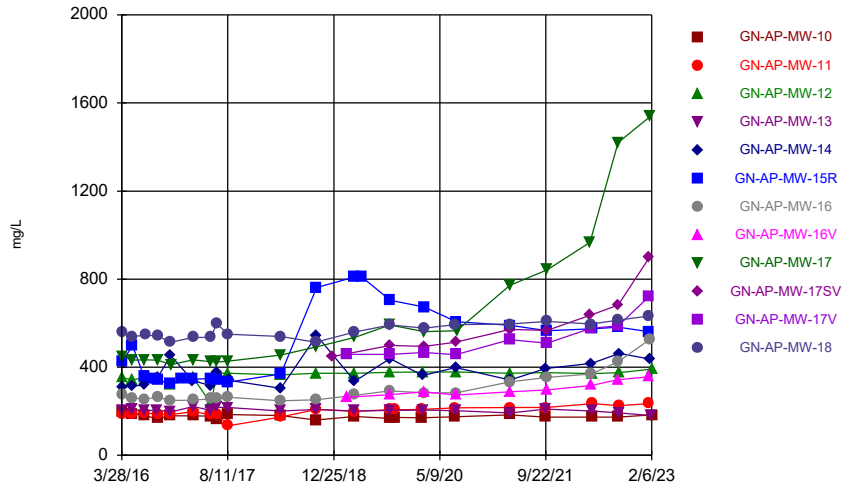
Constituent: Sulfate Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



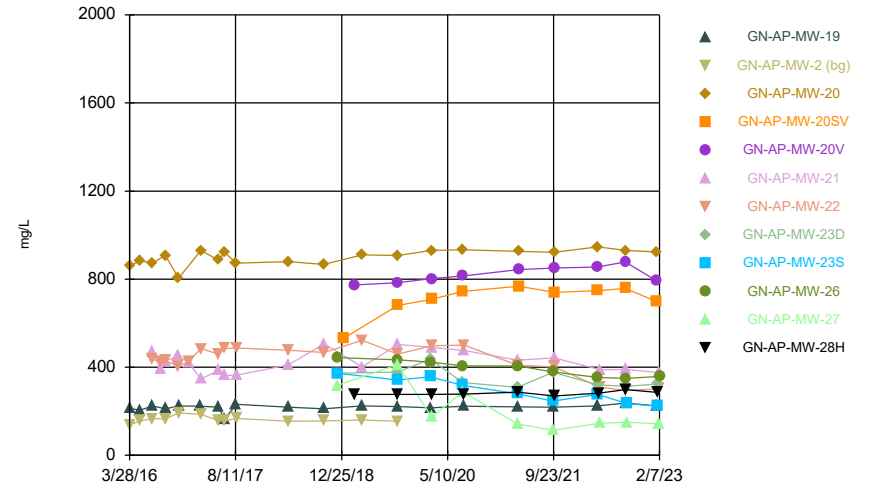
Constituent: Sulfate Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



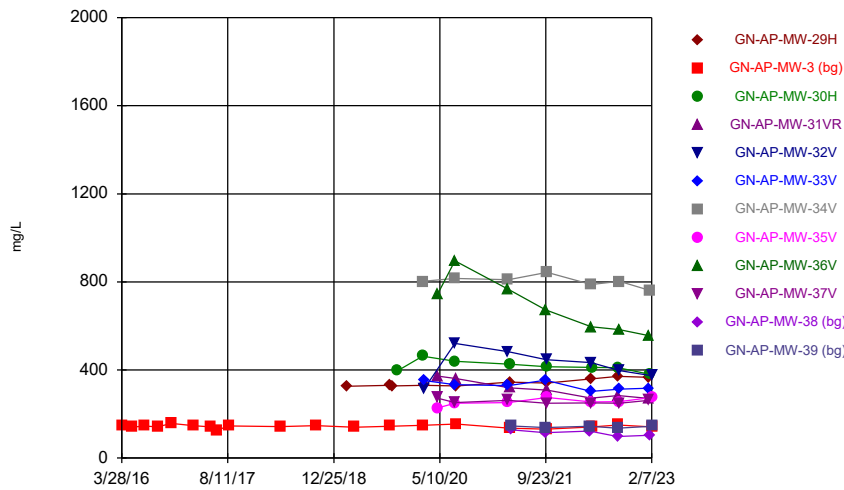
Constituent: TDS Analysis Run 4/19/2023 5:45 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



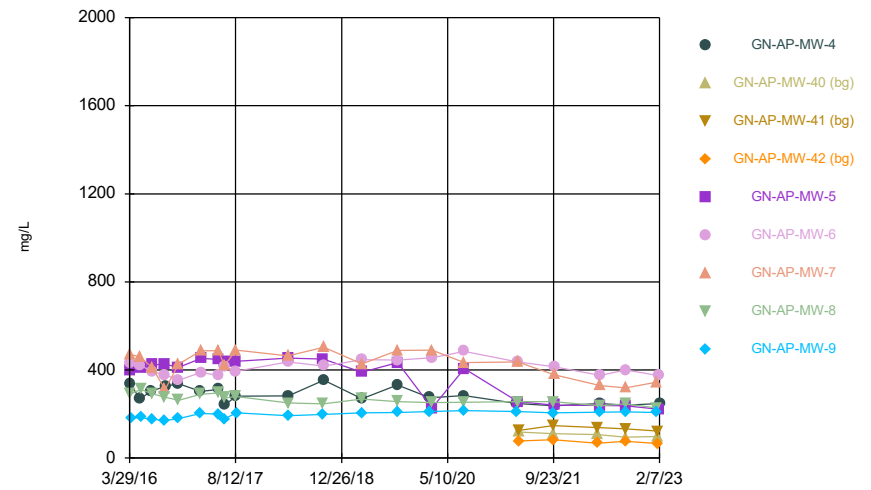
Constituent: TDS Analysis Run 4/19/2023 5:45 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



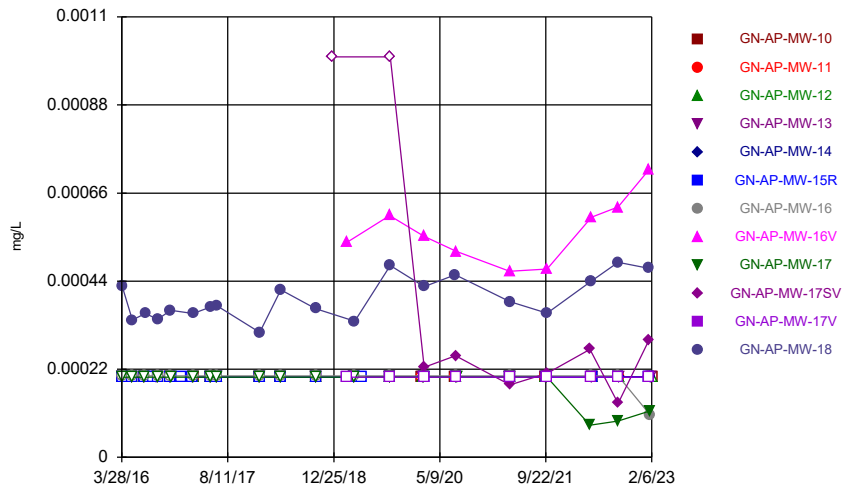
Constituent: TDS Analysis Run 4/19/2023 5:45 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



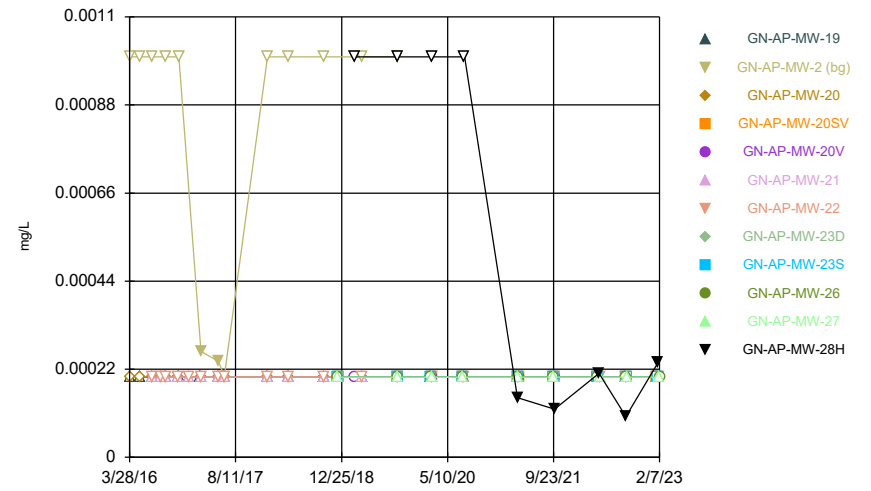
Constituent: TDS Analysis Run 4/19/2023 5:45 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



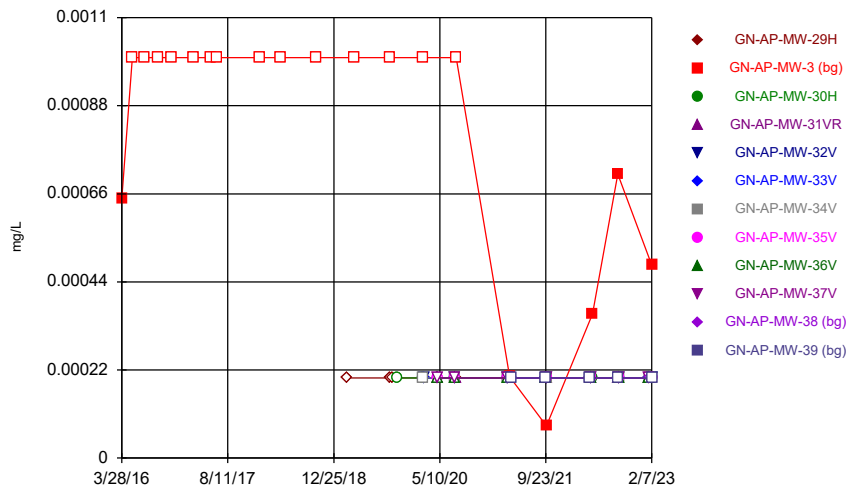
Constituent: Thallium Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



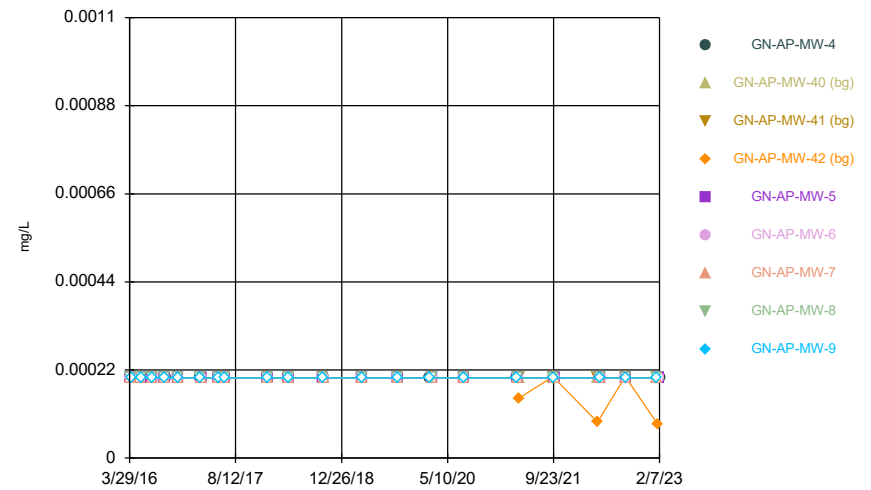
Constituent: Thallium Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



Constituent: Thallium Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



Constituent: Thallium Analysis Run 4/19/2023 5:45 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:55 PM View: Constituents View

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	<0.001015	<0.00102	<0.00102					
5/17/2016	<0.00102				<0.00102		<0.001015		0.000869 (J)
5/18/2016		<0.001015	<0.00102	<0.00102					
5/19/2016						<0.00102			
7/11/2016					<0.00102	<0.00102			
7/13/2016	<0.00102	<0.001015	<0.00102						
7/14/2016				<0.00102			<0.001015		0.000882 (J)
7/18/2016									
8/22/2016						<0.00102			
9/12/2016			<0.00102	<0.00102					
9/13/2016	<0.00102	<0.001015			<0.00102		<0.001015		0.000807 (J)
9/14/2016						<0.00102			
11/14/2016		<0.001015	<0.00102	0.000748 (J)			<0.001015		
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	<0.001015				<0.00102			
5/24/2017			<0.00102	<0.00102	<0.00102		<0.001015		0.000774 (J)
6/19/2017	<0.00102	<0.001015					<0.001015		0.000792 (J)
6/20/2017						<0.00102			
6/21/2017			<0.00102	<0.00102	<0.00102				
1/9/2018		<0.001015	<0.00102	<0.00102	<0.00102	<0.00102	<0.001015		0.000904 (J)
1/10/2018	<0.00102								
4/16/2018	<0.00102	<0.001015	<0.00102						
4/19/2018				<0.00102	<0.00102	<0.00102	<0.001015		0.000731 (J)
10/1/2018							<0.001015		<0.001015
10/2/2018	<0.00102								
10/4/2018		<0.001015	<0.00102						
10/5/2018				<0.00102	<0.00102	<0.00102			
12/17/2018									
2/25/2019								<0.001015	
2/27/2019									
4/3/2019	<0.00102	<0.001015	0.000871 (J)	<0.00102	0.000939 (J)	0.00113 (J)	<0.001015		0.00135 (J)
5/7/2019						0.000998 (J)			
9/16/2019	<0.00102	<0.001015	<0.00102				<0.001015	<0.001015	
9/17/2019				<0.00102	<0.00102				<0.001015
9/18/2019						<0.00102			
2/17/2020	<0.00102	<0.001015							
2/18/2020			<0.00102						
2/19/2020				<0.00102	<0.00102				
2/25/2020						<0.00102	<0.001015	<0.001015	
2/26/2020									<0.001015
7/22/2020	<0.00102	<0.001015							
7/23/2020					<0.00102				
7/27/2020			<0.00102	<0.00102					
7/28/2020						<0.00102	<0.001015	<0.001015	
7/29/2020									0.000845 (J)
4/5/2021	<0.00102	<0.001015	<0.00102				<0.001015	<0.001015	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:55 PM View: Constituents View
 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	<0.001015							
9/22/2021			<0.00102	<0.00102	<0.00102				
9/28/2021						<0.00102	<0.001015	<0.001015	
9/29/2021									<0.001015
4/20/2022									0.00068 (J)
4/26/2022									
4/27/2022					<0.00102		<0.001015	<0.001015	
5/2/2022	<0.00102	<0.001015		<0.00102		<0.00102			
5/3/2022			<0.00102						
8/30/2022							<0.001015	<0.001015	<0.001015
8/31/2022	<0.00102					<0.00102			
9/6/2022		<0.001015	<0.00102		<0.00102				
9/7/2022				<0.00102					
1/24/2023						<0.00102		0.00427	
1/25/2023		0.00275							
1/30/2023							0.000516 (J)		0.00191
1/31/2023					<0.00102				
2/1/2023				<0.00102					
2/6/2023	<0.00102		<0.00102						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:55 PM View: Constituents View
 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		<0.001015	
4/3/2019			<0.00102
5/7/2019			
9/16/2019			
9/17/2019		<0.001015	
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	<0.001015	
7/22/2020			<0.00102
7/23/2020	<0.00102	<0.001015	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:55 PM View: Constituents View
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	<0.001015	<0.00102
9/21/2021			
9/22/2021			
9/28/2021			<0.00102
9/29/2021	<0.00102	<0.001015	
4/20/2022	<0.00102		
4/26/2022		<0.001015	<0.00102
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			<0.00102
8/31/2022	<0.00102	<0.001015	
9/6/2022			
9/7/2022			
1/24/2023	<0.00102		<0.00102
1/25/2023		0.00475	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:55 PM View: Constituents View

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	<0.003							
3/29/2016			<0.001015						
5/18/2016	<0.00102	<0.003	<0.001015						
7/11/2016		<0.003							
7/13/2016	<0.00102		<0.001015			<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		<0.003	<0.001015						
11/14/2016			<0.001015						
11/15/2016						<0.00102	<0.00102		
11/16/2016	<0.00102	<0.003							
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		<0.003				<0.00102	<0.00102		
5/24/2017			<0.001015						
6/19/2017		<0.003	<0.001015						
6/20/2017						<0.00102	<0.00102		
6/21/2017	<0.00102								
1/9/2018			<0.001015					<0.00102	
1/10/2018	<0.00102	<0.003				<0.00102			
4/17/2018						<0.00102	<0.00102		
4/19/2018	<0.00102	<0.003	<0.001015						
10/1/2018			<0.001015						
10/2/2018	<0.00102								
10/3/2018		<0.003							
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			<0.001015						
9/16/2019									
9/17/2019									<0.00102
9/18/2019	<0.00102	<0.003	<0.001015	<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			<0.001015	<0.00102	<0.00102				
2/26/2020						<0.00102	<0.00102		
7/21/2020								<0.00102	<0.00102
7/22/2020			<0.001015	<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 4/19/2023 6:56 PM View: Constituents View
 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			<0.001015	<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			<0.001015	<0.00102	<0.00102				
4/19/2022	<0.00102				<0.00102				
4/20/2022			<0.001015	<0.00102				<0.00102	<0.00102
4/27/2022									
5/2/2022									
5/3/2022						<0.00102	<0.00102		
8/29/2022					<0.00102				
8/30/2022	<0.00102		<0.001015	<0.00102		<0.00102	<0.00102		
8/31/2022									
9/6/2022									
9/7/2022								<0.00102	<0.00102
1/24/2023			0.00188	<0.00102	<0.00102				
1/25/2023	<0.00102								
1/30/2023									
1/31/2023								<0.00102	<0.00102
2/6/2023						<0.00102	<0.00102		
2/7/2023									

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	<0.00102		
8/30/2022			
8/31/2022			<0.00102
9/6/2022		<0.00102	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.00102
1/31/2023			
2/6/2023		<0.00102	
2/7/2023	<0.00102		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		<0.00102							
7/11/2016		<0.00102							
9/14/2016		<0.00102							
11/16/2016		<0.00102							
3/1/2017		0.000613 (J)							
5/23/2017		<0.00102							
6/19/2017		<0.00102							
1/10/2018		<0.00102							
4/19/2018		<0.00102							
10/3/2018		<0.00102							
2/26/2019	<0.00102								
4/2/2019		<0.00102							
9/17/2019	<0.00102	<0.00102							
9/26/2019	<0.00102								
10/22/2019			<0.00102						
2/19/2020		<0.00102	<0.00102				<0.00102		
2/25/2020	<0.00102					<0.001015			
2/26/2020					<0.00102				
4/29/2020				<0.00102				<0.00102	<0.00102
7/20/2020					<0.00102				<0.00102
7/21/2020						<0.001015	<0.00102	<0.00102	
7/23/2020			<0.00102						
7/27/2020		<0.00102		<0.00102					
7/29/2020	<0.00102								
3/30/2021					<0.00102	<0.001015	<0.00102	<0.00102	<0.00102
4/5/2021	<0.00102	<0.00102		<0.00102					
4/6/2021			<0.00102						
4/12/2021									
9/21/2021									
9/22/2021						<0.001015			<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	
4/19/2022									
4/26/2022	<0.00102				<0.00102	<0.001015			<0.00102
4/27/2022				<0.00102			<0.00102	<0.00102	
5/2/2022			<0.00102						
5/3/2022		<0.00102							
8/29/2022									
8/30/2022		<0.00102							
8/31/2022	<0.00102		<0.00102	<0.00102					
9/6/2022					<0.00102	<0.001015			<0.00102
9/7/2022							<0.00102	<0.00102	
1/24/2023	<0.00102			<0.00102					
1/25/2023						0.0157			<0.00102
1/31/2023			<0.00102				<0.00102		
2/1/2023									
2/7/2023		<0.00102			<0.00102			<0.00102	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.00102		
7/20/2020	<0.00102		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.00102		
4/5/2021			
4/6/2021			
4/12/2021		<0.00102	<0.00102
9/21/2021		<0.00102	<0.00102
9/22/2021			
9/27/2021	<0.00102		
9/28/2021			
9/29/2021			
4/19/2022		<0.00102	<0.00102
4/26/2022	<0.00102		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.00102	<0.00102
8/30/2022			
8/31/2022			
9/6/2022	<0.00102		
9/7/2022			
1/24/2023	<0.00102		
1/25/2023			
1/31/2023			
2/1/2023		<0.00102	
2/7/2023			<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.00238 (J)	
3/30/2016	<0.00102			<0.00102		<0.00102	<0.00102		
4/4/2016									<0.00102
5/17/2016	<0.00102								
5/19/2016						<0.00102	<0.00102		
5/23/2016				<0.00102				<0.00102	<0.00102
7/11/2016	<0.00102								
7/12/2016								<0.00102	<0.00102
7/13/2016						<0.00102	<0.00102		
7/14/2016				<0.00102					
9/13/2016				<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
9/14/2016	<0.00102								
11/15/2016				<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
11/16/2016	<0.00102								
2/28/2017	<0.00102							0.000718 (J)	0.000662 (J)
3/1/2017				0.000689 (J)		<0.00102	<0.00102		
5/23/2017				<0.00102		<0.00102	<0.00102		
5/24/2017	<0.00102							<0.00102	<0.00102
6/20/2017				<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
6/21/2017	<0.00102								
1/9/2018				<0.00102					
1/10/2018	<0.00102					<0.00102	<0.00102	<0.00102	<0.00102
4/17/2018				<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
4/19/2018	<0.00102								
10/1/2018				<0.00102				<0.00102	<0.00102
10/3/2018	<0.00102								
10/4/2018						<0.00102	<0.00102		
4/1/2019								<0.00102	<0.00102
4/2/2019	<0.00102			<0.00102		0.000819 (J)	0.00089 (J)		
9/17/2019	<0.00102							<0.00102	<0.00102
9/18/2019				<0.00102		<0.00102	<0.00102		
2/17/2020									<0.00102
2/18/2020	<0.00102								
2/25/2020								<0.00102	
2/26/2020				<0.00102		<0.00102	<0.00102		
7/27/2020	<0.00102								
7/28/2020				<0.00102		<0.00102	<0.00102		
7/29/2020								<0.00102	<0.00102
4/5/2021	<0.00102								<0.00102
4/6/2021								<0.00102	
4/7/2021				<0.00102		<0.00102	<0.00102		
4/12/2021		<0.00102	<0.00102						
4/13/2021				<0.00102					
9/21/2021		<0.00102	<0.00102	<0.00102				<0.00102	<0.00102
9/27/2021	<0.00102				<0.00102	<0.00102	<0.00102		
4/19/2022		<0.00102	<0.00102	<0.00102					
5/2/2022	<0.00102							<0.00102	<0.00102
5/3/2022				<0.00102		<0.00102	<0.00102		
8/29/2022		<0.00102	<0.00102	<0.00102					
8/30/2022	<0.00102				<0.00102	<0.00102	<0.00102		
8/31/2022								<0.00102	<0.00102
1/25/2023							<0.00102	<0.00102	<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.00102	<0.00102	<0.00102					
2/6/2023					<0.00102	<0.00102			
2/7/2023	<0.00102								

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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)	<0.005	0.00148 (J)	<0.005					
5/17/2016	<0.005				0.0016 (J)		0.00337 (J)		0.0112
5/18/2016		<0.005	0.00194 (J)	<0.005					
5/19/2016						0.0015 (J)			
7/11/2016					0.00112 (J)	<0.005			
7/13/2016	<0.005	<0.005	0.0021 (J)						
7/14/2016				<0.005			0.00407 (J)		0.013
7/18/2016									
8/22/2016						<0.005			
9/12/2016			0.00456 (J)	<0.005					
9/13/2016	<0.005	<0.005			<0.005		0.00394 (J)		0.0124
9/14/2016						<0.005			
11/14/2016		<0.005	0.00241 (J)	<0.005			0.0037 (J)		
11/15/2016	<0.005				<0.005	<0.005			
11/16/2016									0.0121
1/3/2017						<0.005			
2/27/2017					<0.005	<0.005			
2/28/2017	<0.005	<0.005	0.0022 (J)	<0.005			0.00409 (J)		0.0127
5/22/2017	<0.005	<0.005				<0.005			
5/24/2017			0.00564	<0.005	<0.005		0.00419 (J)		0.0121
6/19/2017	<0.005	<0.005					0.00424 (J)		0.0129
6/20/2017						<0.005			
6/21/2017			0.00257 (J)	<0.005	<0.005				
1/9/2018		<0.005	0.00886	<0.005	<0.005	<0.005	0.00505		0.0138
1/10/2018	<0.005								
4/16/2018	<0.005	<0.005	0.00754						
4/19/2018				<0.005	0.00113 (J)	<0.005	0.00484 (J)		0.0125
10/1/2018							0.00466 (J)		0.0118
10/2/2018	<0.005								
10/4/2018		<0.005	0.0081						
10/5/2018				<0.005	<0.005	0.0015 (J)			
12/17/2018									
2/25/2019								0.00105 (J)	
2/27/2019									
4/3/2019	<0.005	<0.005	0.00726	<0.005	<0.005	0.00207 (J)	0.00466 (J)		0.0106
5/7/2019						0.0016 (J)			
9/16/2019	<0.005	<0.005	0.00538				0.00492 (J)	0.00111 (J)	
9/17/2019				<0.005	0.00108 (J)				0.0109
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)	0.00495 (J)	0.00105 (J)	
2/26/2020									0.011
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)	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 4/19/2023 6:56 PM View: Constituents View
 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						
8/30/2022							0.00556	0.000994	0.00745
8/31/2022	0.000173 (J)					0.000483			
9/6/2022		0.000164 (J)	0.0033		0.000568				
9/7/2022				0.000532					
1/24/2023						0.000708		0.00116	
1/25/2023		0.000212							
1/30/2023							0.00588		0.00753
1/31/2023					0.000621				
2/1/2023				0.00063					
2/6/2023	0.000194 (J)		0.00233						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			0.00265
8/31/2022	0.00203	0.00134	
9/6/2022			
9/7/2022			
1/24/2023	0.00179		0.00255
1/25/2023		0.00146	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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)	<0.005							
3/29/2016			0.00424 (J)						
5/18/2016	0.00511	<0.005	0.00409 (J)						
7/11/2016		<0.005							
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		<0.005	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		<0.005				0.00348 (J)	0.00135 (J)		
5/22/2017	0.00252 (J)								
5/23/2017		<0.005				0.00294 (J)	0.00151 (J)		
5/24/2017			0.00369 (J)						
6/19/2017		<0.005	0.00397 (J)						
6/20/2017						0.00286 (J)	<0.005		
6/21/2017	0.00314 (J)								
1/9/2018			0.00428 (J)					<0.005	
1/10/2018	0.00294 (J)	<0.005				0.00318 (J)			
4/17/2018						0.00195 (J)	<0.005		
4/19/2018	0.00298 (J)	<0.005	0.00374 (J)						
10/1/2018			0.00372 (J)						
10/2/2018	0.00361 (J)								
10/3/2018		<0.005							
10/4/2018						0.00309 (J)	<0.005		
12/5/2018								0.00113 (J)	<0.005
12/6/2018									
12/13/2018				0.00301 (J)					
2/26/2019									
2/27/2019					0.00119 (J)				
4/1/2019	0.0024 (J)	<0.005							
4/2/2019						0.00134 (J)	<0.005		
4/3/2019			0.00398 (J)						
9/16/2019									
9/17/2019									<0.005
9/18/2019	0.00322 (J)	<0.005	0.00425 (J)	0.00253 (J)	<0.005	0.00239 (J)	0.00129 (J)	0.00255 (J)	
2/18/2020	0.00196 (J)								
2/19/2020								<0.005	<0.005
2/25/2020			0.0043 (J)	0.00243 (J)	<0.005				
2/26/2020						0.00116 (J)	<0.005		
7/21/2020								0.00175 (J)	<0.005
7/22/2020			0.00349 (J)	0.0042 (J)	0.00105 (J)				
7/27/2020	0.00221 (J)								
7/28/2020						0.00166 (J)	<0.005		
7/29/2020									
4/5/2021	0.00228								
4/6/2021								0.0022	0.00026

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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		<0.005	
12/6/2018	<0.005		
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	<0.005	<0.005	
2/18/2020			
2/19/2020	<0.005		
2/25/2020		<0.005	0.00352 (J)
2/26/2020			
7/21/2020		<0.005	
7/22/2020	<0.005		
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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	0.000112 (J)		
8/30/2022			
8/31/2022			0.00272
9/6/2022		0.000198 (J)	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.00275
1/31/2023			
2/6/2023		0.000165 (J)	
2/7/2023	0.000102 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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		<0.005							
5/17/2016		<0.005							
7/11/2016		<0.005							
9/14/2016		<0.005							
11/16/2016		<0.005							
3/1/2017		<0.005							
5/23/2017		<0.005							
6/19/2017		<0.005							
1/10/2018		<0.005							
4/19/2018		<0.005							
10/3/2018		<0.005							
2/26/2019	0.00168 (J)								
4/2/2019		<0.005							
9/17/2019	0.00222 (J)	<0.005							
9/26/2019	0.00225 (J)								
10/22/2019			0.00169 (J)						
2/19/2020		<0.005	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)				<0.005	0.00178 (J)
7/20/2020					<0.005				<0.005
7/21/2020						0.0111	0.00401 (J)	0.00222 (J)	
7/23/2020			0.00536						
7/27/2020		<0.005		0.00185 (J)					
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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		0.00063							
8/31/2022	0.00217		0.00428	0.00581					
9/6/2022					0.00679	0.0122			0.00268
9/7/2022							0.00354	0.00251	
1/24/2023	0.00198			0.0065					
1/25/2023						0.0145			0.00299
1/31/2023			0.00343				0.00321		
2/1/2023									
2/7/2023		0.000466			0.00472			0.00301	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.0042 (J)		
7/20/2020	0.00169 (J)		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.000664		
4/5/2021			
4/6/2021			
4/12/2021		0.000283	0.000946
9/21/2021		0.00013 (J)	0.00049
9/22/2021			
9/27/2021	0.00048		
9/28/2021			
9/29/2021			
4/19/2022		0.00019 (J)	0.00043
4/26/2022	0.00073		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.000109 (J)	0.000281
8/30/2022			
8/31/2022			
9/6/2022	0.000657		
9/7/2022			
1/24/2023	0.000801		
1/25/2023			
1/31/2023			
2/1/2023		0.000112 (J)	
2/7/2023			0.000203

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.00155 (J)	
3/30/2016	0.002 (J)				<0.005	0.00105 (J)	<0.005		
4/4/2016									0.00191 (J)
5/17/2016	<0.005								
5/19/2016						<0.005	<0.005		
5/23/2016					<0.005			0.00227 (J)	0.00213 (J)
7/11/2016	<0.005								
7/12/2016								0.00206 (J)	0.00183 (J)
7/13/2016						<0.005	<0.005		
7/14/2016					<0.005				
9/13/2016					<0.005	<0.005	<0.005	0.00179 (J)	0.00168 (J)
9/14/2016	<0.005								
11/15/2016					<0.005	<0.005	<0.005	0.00171 (J)	0.00181 (J)
11/16/2016	<0.005								
2/28/2017	<0.005							0.00232 (J)	0.00404 (J)
3/1/2017					<0.005	<0.005	<0.005		
5/23/2017					<0.005	<0.005	<0.005		
5/24/2017	<0.005							0.00151 (J)	0.00161 (J)
6/20/2017					<0.005	<0.005	<0.005	0.00298 (J)	0.00155 (J)
6/21/2017	<0.005								
1/9/2018					<0.005				
1/10/2018	<0.005					<0.005	<0.005	0.00196 (J)	0.00227 (J)
4/17/2018					<0.005	<0.005	<0.005	0.00219 (J)	0.00174 (J)
4/19/2018	<0.005								
10/1/2018					<0.005			0.00188 (J)	0.00275 (J)
10/3/2018	<0.005								
10/4/2018						<0.005	<0.005		
4/1/2019								0.00177 (J)	0.00269 (J)
4/2/2019	<0.005				<0.005	<0.005	<0.005		
9/17/2019	<0.005							0.00112 (J)	0.00324 (J)
9/18/2019					<0.005	<0.005	<0.005		
2/17/2020									0.00246 (J)
2/18/2020	<0.005								
2/25/2020								<0.005	
2/26/2020					<0.005	<0.005	<0.005		
7/27/2020	<0.005								
7/28/2020					<0.005	<0.005	<0.005		
7/29/2020								0.00152 (J)	0.00222 (J)
4/5/2021	0.000142 (J)								0.00234
4/6/2021								0.00108	
4/7/2021					0.000148 (J)	9.55E-05 (J)	0.000194 (J)		
4/12/2021		0.000195 (J)	0.000179 (J)						
4/13/2021				0.000163 (J)					
9/21/2021		0.0001 (J)	<0.000203	<0.0002				0.0012	0.00308
9/27/2021	0.00018 (J)				0.00016 (J)	0.00014 (J)	0.00019 (J)		
4/19/2022		0.00017 (J)	0.00014 (J)	0.00027					
5/2/2022	0.00016 (J)							0.00107	0.00225
5/3/2022					0.00015 (J)	0.00015 (J)	0.00016 (J)		
8/29/2022		8.2E-05 (J)	<0.000203	0.000163 (J)					
8/30/2022	0.000129 (J)				0.000217	0.000172 (J)	0.000101 (J)		
8/31/2022								0.00113	0.00274
1/25/2023							0.000136 (J)	0.000553	0.00295

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.0002	0.000108 (J)	0.000232					
2/6/2023					0.00034	0.000114 (J)			
2/7/2023	0.000196 (J)								

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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						
8/30/2022							0.0678	0.063	0.141
8/31/2022	0.0138					0.0551			
9/6/2022		0.00885	0.0776		0.0835				
9/7/2022				0.0422					
1/24/2023						0.056		0.0659	
1/25/2023		0.00984							
1/30/2023							0.0894		0.123
1/31/2023					0.067				
2/1/2023				0.0378					
2/6/2023	0.013		0.0741						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			0.0573
8/31/2022	0.101	0.0595	
9/6/2022			
9/7/2022			
1/24/2023	0.128		0.055
1/25/2023		0.0772	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	0.0179		
8/30/2022			
8/31/2022			0.035
9/6/2022		0.0144	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.0328
1/31/2023			
2/6/2023		0.0135	
2/7/2023	0.0183		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		0.00866 (J)							
7/11/2016		0.00969 (J)							
9/14/2016		0.00864 (J)							
11/16/2016		0.00917 (J)							
3/1/2017		0.00869 (J)							
5/23/2017		0.00658 (J)							
6/19/2017		0.00672 (J)							
1/10/2018		0.00645 (J)							
4/19/2018		0.00625 (J)							
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)							
9/26/2019	0.0574								
10/22/2019			0.0702						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		0.0177							
8/31/2022	0.0678		0.0742	0.0301					
9/6/2022					0.0622	0.0629			0.0855
9/7/2022							0.0345	0.018	
1/24/2023	0.0638			0.0314					
1/25/2023						0.0615			0.0843
1/31/2023			0.0672				0.0295		
2/1/2023									
2/7/2023		0.0163			0.0527			0.0154	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.0336		
7/20/2020	0.0352		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.0355		
4/5/2021			
4/6/2021			
4/12/2021		0.008	0.0226
9/21/2021		0.0101	0.0283
9/22/2021			
9/27/2021	0.0367		
9/28/2021			
9/29/2021			
4/19/2022		0.00686	0.0279
4/26/2022	0.0353		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.00461	0.0302
8/30/2022			
8/31/2022			
9/6/2022	0.0376		
9/7/2022			
1/24/2023	0.0371		
1/25/2023			
1/31/2023			
2/1/2023		0.00956	
2/7/2023			0.0287

Time Series

Constituent: Barium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.0277	
3/30/2016	0.0219				0.0339	0.0277	0.025		
4/4/2016									0.0789
5/17/2016	0.0196								
5/19/2016						0.0282	0.0249		
5/23/2016					0.0289			0.0261	0.0733
7/11/2016	0.0286								
7/12/2016								0.0251	0.102
7/13/2016						0.0222	0.0279		
7/14/2016					0.0281				
9/13/2016					0.0301	0.017	0.0153	0.0189	0.0793
9/14/2016	0.0261								
11/15/2016					0.0296	0.0151	0.0225	0.0186	0.0882
11/16/2016	0.0291								
2/28/2017	0.0229							0.0196	0.111
3/1/2017					0.0395	0.0212	0.0261		
5/23/2017					0.0307	0.0162	0.0208		
5/24/2017	0.0202							0.0228	0.0914
6/20/2017					0.0367	0.02	0.0244	0.0188	0.0948
6/21/2017	0.0186								
1/9/2018					0.0269				
1/10/2018	0.0261					0.0183	0.0235	0.0141	0.0836
4/17/2018					0.0441	0.0271	0.0252	0.0179	0.0979
4/19/2018	0.0231								
10/1/2018					0.0298			0.0168	0.118
10/3/2018	0.0296								
10/4/2018						0.0189	0.0265		
4/1/2019								0.0209	0.105
4/2/2019	0.0254				0.0371	0.0243	0.0236		
9/17/2019	0.0344							0.0202	0.118
9/18/2019					0.0335	0.023	0.029		
2/17/2020									0.109
2/18/2020	0.0185								
2/25/2020								0.0168	
2/26/2020					0.0231	0.0254	0.0261		
7/27/2020	0.0207								
7/28/2020					0.0332	0.026	0.0248		
7/29/2020								0.0206	0.105
4/5/2021	0.0151								0.104
4/6/2021								0.018	
4/7/2021					0.027	0.0211	0.0245		
4/12/2021		0.0107	0.0155						
4/13/2021				0.0154					
9/21/2021		0.00746	0.0213	0.0114				0.0179	0.114
9/27/2021	0.0155				0.0266	0.0223	0.0218		
4/19/2022		0.00636	0.0185	0.0148					
5/2/2022	0.0153							0.0188	0.114
5/3/2022					0.0219	0.0232	0.0191		
8/29/2022		0.00619	0.0212	0.0147					
8/30/2022	0.0157				0.0234	0.0219	0.0188		
8/31/2022								0.018	0.114
1/25/2023							0.0203	0.0134	0.111

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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						
8/30/2022							<0.00102	<0.00102	<0.00102
8/31/2022	<0.00102					<0.00102			
9/6/2022		<0.00102	<0.00102		<0.00102				
9/7/2022				<0.00102					
1/24/2023						<0.00102		<0.00102	
1/25/2023		<0.00102							
1/30/2023							<0.00102		<0.00102
1/31/2023					<0.00102				
2/1/2023				<0.00102					
2/6/2023	<0.00102		<0.00102						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			<0.00102
8/31/2022	<0.00102	<0.00102	
9/6/2022			
9/7/2022			
1/24/2023	<0.00102		<0.00102
1/25/2023		<0.00102	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<0.003							
3/29/2016			<0.00102						
5/18/2016	<0.00102	<0.003	<0.00102						
7/11/2016		<0.003							
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		<0.003	<0.00102						
11/14/2016			<0.00102						
11/15/2016						<0.00102	<0.00102		
11/16/2016	<0.00102	<0.003							
1/3/2017						<0.00102	<0.00102		
2/27/2017	<0.00102								
2/28/2017			<0.00102						
3/1/2017		<0.003				<0.00102	<0.00102		
5/22/2017	<0.00102								
5/23/2017		<0.003				<0.00102	<0.00102		
5/24/2017			<0.00102						
6/19/2017		<0.003	<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	<0.003				<0.00102			
4/17/2018						<0.00102	<0.00102		
4/19/2018	<0.00102	<0.003	<0.00102						
10/1/2018			<0.00102						
10/2/2018	<0.00102								
10/3/2018		<0.003							
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	<0.003							
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	<0.003	<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 4/19/2023 6:56 PM View: Constituents View
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		
8/29/2022					<0.00102				
8/30/2022	<0.00102		<0.00102	<0.00102		<0.00102	<0.00102		
8/31/2022									
9/6/2022									
9/7/2022								<0.00102	<0.00102
1/24/2023			<0.00102	<0.00102	<0.00102				
1/25/2023	<0.00102								
1/30/2023									
1/31/2023								<0.00102	<0.00102
2/6/2023						<0.00102	<0.00102		
2/7/2023									

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	<0.00102		
8/30/2022			
8/31/2022			<0.00102
9/6/2022		<0.00102	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.00102
1/31/2023			
2/6/2023		<0.00102	
2/7/2023	<0.00102		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		<0.00102							
7/11/2016		<0.00102							
9/14/2016		<0.00102							
11/16/2016		<0.00102							
3/1/2017		<0.00102							
5/23/2017		<0.00102							
6/19/2017		<0.00102							
1/10/2018		<0.00102							
4/19/2018		<0.00102							
10/3/2018		<0.00102							
2/26/2019	<0.00102								
4/2/2019		<0.00102							
9/17/2019	<0.00102	<0.00102							
9/26/2019	<0.00102								
10/22/2019			<0.00102						
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					
7/29/2020	<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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		<0.00102							
8/31/2022	<0.00102		<0.00102	<0.00102					
9/6/2022					<0.00102	<0.00102			<0.00102
9/7/2022							<0.00102	<0.00102	
1/24/2023	<0.00102			<0.00102					
1/25/2023						<0.00102			<0.00102
1/31/2023			<0.00102				<0.00102		
2/1/2023									
2/7/2023		<0.00102			<0.00102			<0.00102	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.00102		
7/20/2020	<0.00102		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.00102		
4/5/2021			
4/6/2021			
4/12/2021		<0.00102	<0.00102
9/21/2021		<0.00102	<0.00102
9/22/2021			
9/27/2021	<0.00102		
9/28/2021			
9/29/2021			
4/19/2022		<0.00102	<0.00102
4/26/2022	<0.00102		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.00102	<0.00102
8/30/2022			
8/31/2022			
9/6/2022	<0.00102		
9/7/2022			
1/24/2023	<0.00102		
1/25/2023			
1/31/2023			
2/1/2023		<0.00102	
2/7/2023			<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.00102	
3/30/2016	<0.00102				<0.00102	<0.00102	<0.00102		
4/4/2016									<0.00102
5/17/2016	<0.00102								
5/19/2016						<0.00102	<0.00102		
5/23/2016					<0.00102			<0.00102	<0.00102
7/11/2016	<0.00102								
7/12/2016								<0.00102	<0.00102
7/13/2016						<0.00102	<0.00102		
7/14/2016					<0.00102				
9/13/2016					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/14/2016	<0.00102								
11/15/2016					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
11/16/2016	<0.00102								
2/28/2017	<0.00102							<0.00102	<0.00102
3/1/2017					<0.00102	<0.00102	<0.00102		
5/23/2017					<0.00102	<0.00102	<0.00102		
5/24/2017	<0.00102							<0.00102	<0.00102
6/20/2017					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/21/2017	<0.00102								
1/9/2018					<0.00102				
1/10/2018	<0.00102					<0.00102	<0.00102	<0.00102	<0.00102
4/17/2018					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/19/2018	<0.00102								
10/1/2018					<0.00102			<0.00102	<0.00102
10/3/2018	<0.00102								
10/4/2018						<0.00102	<0.00102		
4/1/2019								<0.00102	<0.00102
4/2/2019	<0.00102				<0.00102	<0.00102	<0.00102		
9/17/2019	<0.00102							<0.00102	<0.00102
9/18/2019					<0.00102	<0.00102	<0.00102		
2/17/2020									<0.00102
2/18/2020	<0.00102								
2/25/2020								<0.00102	
2/26/2020					<0.00102	<0.00102	<0.00102		
7/27/2020	<0.00102								
7/28/2020					<0.00102	<0.00102	<0.00102		
7/29/2020								<0.00102	<0.00102
4/5/2021	<0.00102								<0.00102
4/6/2021								<0.00102	
4/7/2021					<0.00102	<0.00102	<0.00102		
4/12/2021		<0.00102	<0.00102						
4/13/2021				<0.00102					
9/21/2021		<0.00102	<0.00102	<0.00102				<0.00102	<0.00102
9/27/2021	<0.00102				<0.00102	<0.00102	<0.00102		
4/19/2022		<0.00102	<0.00102	<0.00102					
5/2/2022	<0.00102							<0.00102	<0.00102
5/3/2022					<0.00102	<0.00102	<0.00102		
8/29/2022		<0.00102	<0.00102	<0.00102					
8/30/2022	<0.00102				<0.00102	<0.00102	<0.00102		
8/31/2022								<0.00102	<0.00102
1/25/2023							<0.00102	<0.00102	<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.00102	<0.00102	<0.00102					
2/6/2023					<0.00102	<0.00102			
2/7/2023	<0.00102								

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
 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						
8/30/2022							1.42	1.38	3.33
8/31/2022	<0.1015					2.22			
9/6/2022		0.326	0.459		<0.1015				
9/7/2022				<0.1015					
1/24/2023						2.19		1.4	
1/25/2023		0.327							
1/30/2023							1.45		3.49
1/31/2023					<0.1015				
2/1/2023				<0.1015					
2/6/2023	<0.1015		0.463						

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			1.72
8/31/2022	2.55	2.03	
9/6/2022			
9/7/2022			
1/24/2023	2.62		1.68
1/25/2023		2.17	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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)	<0.1							
3/29/2016			3.48						
5/18/2016	0.0252 (J)	<0.1	3.61						
7/11/2016		<0.1							
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		<0.1	3.53						
11/14/2016			3.51						
11/15/2016						2.12	2.09		
11/16/2016	<0.1015	<0.1							
1/3/2017						2.01	1.89		
2/27/2017	<0.1015								
2/28/2017			3.44						
3/1/2017		<0.1				1.47	1.88		
5/22/2017	<0.1015								
5/23/2017		<0.1				1.41	1.87		
5/24/2017			3.31						
6/19/2017		<0.1	3.48						
6/20/2017						1.38	1.88		
6/21/2017	<0.1015								
8/14/2017	<0.1015		3.4						
8/15/2017		<0.1				2.04	1.87		
4/17/2018						1.66	2.04		
4/19/2018	0.0258 (J)	<0.1	3.74						
10/1/2018			3.73						
10/2/2018	<0.1015								
10/3/2018		<0.1							
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	<0.1							
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	<0.1	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 4/19/2023 6:56 PM View: Constituents View
 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		
8/29/2022				2.98					
8/30/2022	<0.1015	4.33	2.81			1.48	0.992		
8/31/2022									
9/6/2022									
9/7/2022								1.4	0.393
1/24/2023		4.55	2.62	2.83					
1/25/2023	<0.1015								
1/30/2023									
1/31/2023								1.37	0.313
2/6/2023						1.46	0.95		
2/7/2023									

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	0.997		
8/30/2022			
8/31/2022			0.786
9/6/2022		0.154	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.802
1/31/2023			
2/6/2023		0.155	
2/7/2023	0.972		

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		<0.1015							
7/11/2016		<0.1015							
9/14/2016		<0.1015							
11/16/2016		<0.1015							
3/1/2017		<0.1015							
5/23/2017		<0.1015							
6/19/2017		<0.1015							
8/15/2017		<0.1015							
4/19/2018		<0.1015							
10/3/2018		<0.1015							
2/26/2019	1.17								
4/2/2019		<0.1015							
9/17/2019	1.18	<0.1015							
9/26/2019	1.22								
10/22/2019			0.0484 (J)						
2/19/2020		<0.1015	0.0595 (J)				2.82		
2/25/2020	1.21					0.337			
2/26/2020				0.204	0.446				
4/29/2020								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					
7/29/2020	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)						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		<0.1015							
8/31/2022	1.17		0.0465 (J)	0.142					
9/6/2022					0.409	0.137			0.144
9/7/2022							2.93	0.205	
1/24/2023	1.19			0.144					
1/25/2023						0.141			0.135
1/31/2023			0.0417 (J)				2.84		
2/1/2023									
2/7/2023		<0.1015			0.458			0.201	

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Constituent: Boron (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.317		
7/20/2020	0.393		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.526		
4/5/2021			
4/6/2021			
4/12/2021		<0.1015	<0.1015
9/21/2021		<0.1015	<0.1015
9/22/2021			
9/27/2021	0.51		
9/28/2021			
9/29/2021			
4/19/2022		<0.1015	<0.1015
4/26/2022	0.434		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.1015	<0.1015
8/30/2022			
8/31/2022			
9/6/2022	0.41		
9/7/2022			
1/24/2023	0.392		
1/25/2023			
1/31/2023			
2/1/2023		<0.1015	
2/7/2023			<0.1015

Time Series

Constituent: Boron (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.161	
3/30/2016	0.193				1.82	2.89	1.85		
4/4/2016									<0.1015
5/17/2016	0.201								
5/19/2016						2.84	1.66		
5/23/2016					2.11			0.197	<0.1015
7/11/2016	0.375								
7/12/2016								0.17	<0.1015
7/13/2016						2.41	1.58		
7/14/2016					2.18				
9/13/2016					2.13	2.06	0.674	0.114	<0.1015
9/14/2016	0.507								
11/15/2016					2.22	2.08	1.72	0.0853 (J)	0.0256 (J)
11/16/2016	0.655								
2/28/2017	0.364							0.0452 (J)	0.021 (J)
3/1/2017					2.24	2.25	1.84		
5/23/2017					2.2	2.11	1.69		
5/24/2017	0.352							0.113	<0.1015
6/20/2017					2.2	2.5	1.75	0.0853 (J)	<0.1015
6/21/2017	0.263								
8/15/2017	0.23				2.16	1.34	1.68	0.0862 (J)	
8/16/2017									<0.1015 (U*)
4/17/2018					2.22	2.74	1.81	0.0649 (J)	0.0386 (J)
4/19/2018	0.305								
10/1/2018					2.64			0.03 (J)	<0.1015
10/3/2018	0.952								
10/4/2018						2.38	2.34		
4/1/2019								0.0345 (J)	<0.1015
4/2/2019	0.271				1.78	2.66	1.64		
9/17/2019	0.619							0.0439 (J)	<0.1015
9/18/2019					2.31	2.68	2.16		
2/17/2020									<0.1015
2/18/2020	0.281								
2/25/2020								<0.1015	
2/26/2020					0.84	2.94	1.99		
7/27/2020	0.3								
7/28/2020					2.05	2.79	1.81		
7/29/2020								<0.1015	<0.1015
4/5/2021	0.2								0.0314 (J)
4/6/2021								0.0327 (J)	
4/7/2021					0.885	2.4	1.9		
4/12/2021		0.0342 (J)	<0.1015						
4/13/2021				<0.1015					
9/21/2021		<0.1015	<0.1015	<0.1015				<0.1015	<0.1015
9/27/2021	0.149				0.721	2.03	1.52		
4/19/2022		<0.1015	<0.1015	<0.1015					
5/2/2022	0.109							0.0313 (J)	<0.1015
5/3/2022					0.562	1.81	1.3		
8/29/2022		<0.1015	<0.1015	<0.1015					
8/30/2022	0.112				0.562	1.72	1.26		
8/31/2022								<0.1015	<0.1015
1/25/2023							1.44	<0.1015	<0.1015

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Constituent: Boron (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.1015	<0.1015	<0.1015					
2/6/2023					0.412	1.62			
2/7/2023	0.0979 (J)								

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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		<0.001
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				<0.001
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									<0.001
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									<0.001
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 4/19/2023 6:56 PM View: Constituents View
 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						
8/30/2022							<0.0002	8E-05 (J)	0.000271
8/31/2022	<0.0002					<0.0002			
9/6/2022		<0.0002	<0.0002		<0.0002				
9/7/2022				<0.0002					
1/24/2023						<0.0002		<0.0002	
1/25/2023		<0.0002							
1/30/2023							<0.0002		0.000261
1/31/2023					<0.0002				
2/1/2023				<0.0002					
2/6/2023	<0.0002		<0.0002						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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	<0.001		
2/25/2019			
2/27/2019		0.000302 (J)	
4/3/2019			<0.0002
5/7/2019			
9/16/2019			
9/17/2019		<0.001	
9/18/2019	<0.001		<0.0002
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.0002
2/26/2020	<0.001	<0.001	
7/22/2020			<0.0002
7/23/2020	<0.001	<0.001	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			<0.0002
8/31/2022	7.9E-05 (J)	0.00016 (J)	
9/6/2022			
9/7/2022			
1/24/2023	9.5E-05 (J)		<0.0002
1/25/2023		0.000166 (J)	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<0.001							
3/29/2016			<0.0002						
5/18/2016	<0.0002	<0.001	<0.0002						
7/11/2016		<0.001							
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		<0.001	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.0002	<0.0002		
11/16/2016	<0.0002	<0.001							
1/3/2017						<0.0002	<0.0002		
2/27/2017	<0.0002								
2/28/2017			<0.0002						
3/1/2017		<0.001				<0.0002	<0.0002		
5/22/2017	<0.0002								
5/23/2017		<0.001				<0.0002	<0.0002		
5/24/2017			<0.0002						
6/19/2017		<0.001	<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	<0.001				<0.0002			
4/17/2018						<0.0002	<0.0002		
4/19/2018	<0.0002	<0.001	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.0002								
10/3/2018		<0.001							
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	<0.001							
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	<0.001	<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 4/19/2023 6:56 PM View: Constituents View
 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		
8/29/2022					<0.0002				
8/30/2022	<0.0002		0.000104 (J)	<0.0002		<0.0002	<0.0002		
8/31/2022									
9/6/2022									
9/7/2022								<0.0002	<0.0002
1/24/2023			<0.0002	<0.0002	<0.0002				
1/25/2023	<0.0002								
1/30/2023									
1/31/2023								<0.0002	<0.0002
2/6/2023						<0.0002	<0.0002		
2/7/2023									

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	<0.0002		
8/30/2022			
8/31/2022			<0.0002
9/6/2022		<0.0002	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.0002
1/31/2023			
2/6/2023		<0.0002	
2/7/2023	<0.0002		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		<0.0002							
7/11/2016		<0.0002							
9/14/2016		<0.0002							
11/16/2016		<0.0002							
3/1/2017		<0.0002							
5/23/2017		<0.0002							
6/19/2017		<0.0002							
1/10/2018		<0.0002							
4/19/2018		<0.0002							
10/3/2018		<0.0002							
2/26/2019	<0.000203								
4/2/2019		<0.0002							
9/17/2019	<0.000203	<0.0002							
9/26/2019	<0.000203								
10/22/2019			<0.0002						
2/19/2020		<0.0002	<0.0002				<0.0002		
2/25/2020	<0.000203					<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					
7/29/2020	<0.000203								
3/30/2021					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/5/2021	<0.000203	<0.0002		<0.0002					
4/6/2021			<0.0002						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		<0.0002							
8/31/2022	0.000134 (J)		<0.0002	<0.0002					
9/6/2022					<0.0002	<0.0002			<0.0002
9/7/2022							<0.0002	<0.0002	
1/24/2023	0.000123 (J)			<0.0002					
1/25/2023						<0.0002			<0.0002
1/31/2023			<0.0002				<0.0002		
2/1/2023									
2/7/2023		<0.0002			<0.0002			<0.0002	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.0002		
7/20/2020	<0.0002		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.0002		
4/5/2021			
4/6/2021			
4/12/2021		<0.0002	<0.0002
9/21/2021		<0.0002	<0.0002
9/22/2021			
9/27/2021	<0.0002		
9/28/2021			
9/29/2021			
4/19/2022		<0.0002	<0.0002
4/26/2022	<0.0002		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.0002	<0.0002
8/30/2022			
8/31/2022			
9/6/2022	<0.0002		
9/7/2022			
1/24/2023	<0.0002		
1/25/2023			
1/31/2023			
2/1/2023		<0.0002	
2/7/2023			<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.0002	
3/30/2016	<0.0002				<0.0002	<0.0002	<0.0002		
4/4/2016									<0.0002
5/17/2016	<0.0002								
5/19/2016						<0.0002	<0.0002		
5/23/2016					<0.0002			<0.0002	<0.0002
7/11/2016	<0.0002								
7/12/2016								<0.0002	<0.0002
7/13/2016						<0.0002	<0.0002		
7/14/2016					<0.0002				
9/13/2016					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/14/2016	<0.0002								
11/15/2016					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/16/2016	<0.0002								
2/28/2017	<0.0002							<0.0002	<0.0002
3/1/2017					<0.0002	<0.0002	<0.0002		
5/23/2017					<0.0002	<0.0002	<0.0002		
5/24/2017	<0.0002							<0.0002	<0.0002
6/20/2017					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/21/2017	<0.0002								
1/9/2018					<0.0002				
1/10/2018	<0.0002					<0.0002	<0.0002	<0.0002	<0.0002
4/17/2018					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/19/2018	<0.0002								
10/1/2018					<0.0002			<0.0002	<0.0002
10/3/2018	<0.0002								
10/4/2018						<0.0002	<0.0002		
4/1/2019								<0.0002	<0.0002
4/2/2019	<0.0002				<0.0002	<0.0002	<0.0002		
9/17/2019	<0.0002							<0.0002	<0.0002
9/18/2019					<0.0002	<0.0002	<0.0002		
2/17/2020									<0.0002
2/18/2020	<0.0002								
2/25/2020								<0.0002	
2/26/2020					<0.0002	<0.0002	<0.0002		
7/27/2020	<0.0002								
7/28/2020					<0.0002	<0.0002	<0.0002		
7/29/2020								<0.0002	<0.0002
4/5/2021	<0.0002								<0.0002
4/6/2021								<0.0002	
4/7/2021					<0.0002	<0.0002	<0.0002		
4/12/2021		<0.0002	<0.0002						
4/13/2021				0.000855					
9/21/2021		<0.0002	<0.0002	0.00018 (J)				<0.0002	<0.0002
9/27/2021	<0.0002				<0.0002	<0.0002	<0.0002		
4/19/2022		<0.0002	<0.0002	0.00019 (J)					
5/2/2022	<0.0002							<0.0002	<0.0002
5/3/2022					<0.0002	<0.0002	<0.0002		
8/29/2022		<0.0002	<0.0002	<0.000203					
8/30/2022	<0.0002				<0.0002	<0.0002	<0.0002		
8/31/2022								<0.0002	<0.0002
1/25/2023							<0.0002	<0.0002	<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.0002	<0.0002	9.5E-05 (J)					
2/6/2023					<0.0002	<0.0002			
2/7/2023	<0.0002								

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
 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						
8/30/2022							111	65.5	300
8/31/2022	36.400002					112			
9/6/2022		46.700001	76.800003		102				
9/7/2022				52.700001					
1/24/2023						98.300003		52	
1/25/2023		43							
1/30/2023							131		374
1/31/2023					66.599998				
2/1/2023				44.799999					
2/6/2023	45.400002		76.300003						

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			155
8/31/2022	147	91.599998	
9/6/2022			
9/7/2022			
1/24/2023	198		138
1/25/2023		121	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	77.300003		
8/30/2022			
8/31/2022			45.200001
9/6/2022		28.6	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			44.599998
1/31/2023			
2/6/2023		26.200001	
2/7/2023	71.800003		

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		29.6							
7/11/2016		30							
9/14/2016		30.6							
11/16/2016		30.4							
3/1/2017		<0.5 (o)							
5/23/2017		30.1							
6/19/2017		29.9							
8/15/2017		28.1							
4/19/2018		31.2							
10/3/2018		32.3							
2/26/2019	45								
4/2/2019		31.6							
9/17/2019	48.5	31.7							
9/26/2019	45.4								
10/22/2019			89.1						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		30.6							
8/31/2022	56.5		91.900002	50.799999					
9/6/2022					67.099998	53.5			26.299999
9/7/2022							136	38.400002	
1/24/2023	52.799999			48.900002					
1/25/2023						49.599998			24.4
1/31/2023			85.599998				129		
2/1/2023									
2/7/2023		29			54.900002			34.599998	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	44.9		
7/20/2020	40.6		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	40.1		
4/5/2021			
4/6/2021			
4/12/2021		23.2	35
9/21/2021		22.3	36.1
9/22/2021			
9/27/2021	40.1		
9/28/2021			
9/29/2021			
4/19/2022		23.3	36.4
4/26/2022	49.4		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		23.1	36.400002
8/30/2022			
8/31/2022			
9/6/2022	39.799999		
9/7/2022			
1/24/2023	37.099998		
1/25/2023			
1/31/2023			
2/1/2023		21.200001	
2/7/2023			35.200001

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								58.2	
3/30/2016	53.6				68.3	75.7	96.4		
4/4/2016									32.3
5/17/2016	50.5								
5/19/2016						69.7	84.5		
5/23/2016					63.1			52.1	31.3
7/11/2016	56.5								
7/12/2016								53.6	31.6
7/13/2016						62.7	84		
7/14/2016					67.7				
9/13/2016					67.8	48.3	58.2	53	31.2
9/14/2016	58								
11/15/2016					68.4	51.8	87.9	51.5	31.5
11/16/2016	61.8								
2/28/2017	56.8							51.4	29.7
3/1/2017					71.8	58.4	96.8		
5/23/2017					70.6	54.8	88		
5/24/2017	55.5							50.8	30.4
6/20/2017					73.8	67.9	87.5	49.8	30.8
6/21/2017	51								
8/15/2017	48.9				65.7	52.5	89.4	51.6	
8/16/2017									30.5
4/17/2018					90	77.1	100	52.2	32.9
4/19/2018	56.5								
10/1/2018					79.6			50.8	32.4
10/3/2018	73.5								
10/4/2018						61.2	106		
4/1/2019								50.5	32.3
4/2/2019	56.9				69.8	80.1	115		
9/17/2019	69.3							54.5	32.7
9/18/2019					79.9	83.9	99.1		
2/17/2020									33.2
2/18/2020	55.8								
2/25/2020								54.7	
2/26/2020					46.8	83.1	95.8		
7/27/2020	57								
7/28/2020					67.8	82.5	84.9		
7/29/2020								49.4	32.4
4/5/2021	52.2								31.7
4/6/2021								51.1	
4/7/2021					53.3	75.5	86.8		
4/12/2021		22.9	26.6						
4/13/2021				11.7					
9/21/2021		21.6	31.7	15.4				51.4	31.5
9/27/2021	54.4				53.1	69.2	76.2		
4/19/2022		21.6	29.4	11					
5/2/2022	56.8							52.4	30.9
5/3/2022					56.6	68.8	69		
8/29/2022		21.299999	30.799999	13.3					
8/30/2022	67.400002				56.599998	84.599998	81.199997		
8/31/2022								64	29.9
1/25/2023							71.400002	53.099998	29.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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						
8/30/2022							56.599998	31.799999	272
8/31/2022	2.43					82			
9/6/2022		7.27	18.4		5.29				
9/7/2022				4.55					
1/24/2023						91.199997		50.700001	
1/25/2023		7.78							
1/30/2023							122		436
1/31/2023					5.23				
2/1/2023				4.54					
2/6/2023	2.95		19.700001						

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			13
8/31/2022	84.599998	70.199997	
9/6/2022			
9/7/2022			
1/24/2023	186		14.1
1/25/2023		160	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	19.799999		
8/30/2022			
8/31/2022			20.299999
9/6/2022		13.6	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			24.700001
1/31/2023			
2/6/2023		12.9	
2/7/2023	19.700001		

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		1.9							
7/11/2016		1.93							
9/14/2016		1.77							
11/16/2016		1.98							
3/1/2017		2.3							
5/23/2017		2.2							
6/19/2017		1.7 (J)							
8/15/2017		2.1							
4/19/2018		1.7 (J)							
10/3/2018		1.7 (J)							
2/26/2019	16.4								
4/2/2019		1.65							
9/17/2019	20.5	1.93							
9/26/2019	21.5								
10/22/2019			32.3						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		1.64							
8/31/2022	32.799999		28.9	17.9					
9/6/2022					30.299999	23.9			123
9/7/2022							18.5	7.9	
1/24/2023	38.900002			17.5					
1/25/2023						24.200001			109
1/31/2023			33.5				17.6		
2/1/2023									
2/7/2023		2.32			26			7.65	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	12.9		
7/20/2020	12.4		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	13.1		
4/5/2021			
4/6/2021			
4/12/2021		5.88	2.91
9/21/2021		6.09	2.94
9/22/2021			
9/27/2021	13.6		
9/28/2021			
9/29/2021			
4/19/2022		5.24	2.22
4/26/2022	14.1		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		4.26	2.06
8/30/2022			
8/31/2022			
9/6/2022	14.3		
9/7/2022			
1/24/2023	14.7		
1/25/2023			
1/31/2023			
2/1/2023		4.54	
2/7/2023			2.46

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								5.14	
3/30/2016	12.9				31.9	30.8	16.9		
4/4/2016									5.89
5/17/2016	12								
5/19/2016						28.7	14.9		
5/23/2016					29.4			5.03	5.2
7/11/2016	20.3								
7/12/2016								4.66	5.71
7/13/2016						24.8	12.6		
7/14/2016					29.5				
9/13/2016					30.8	21.7	8.09	3.98	5.88
9/14/2016	27.3								
11/15/2016					30.7	25.9	14.3	3.71	6.04
11/16/2016	37.1								
2/28/2017	27							5.2	8.6
3/1/2017					40	29	18		
5/23/2017					40	28	19		
5/24/2017	28							5.4	9.3
6/20/2017					44	40	18	5	7.8
6/21/2017	20								
8/15/2017	17				36	32	18	4.6	
8/16/2017									7.6
4/17/2018					63	52	16	3.6	7.5
4/19/2018	21								
10/1/2018					49			3.9	8.9
10/3/2018	21								
10/4/2018						50	25		
4/1/2019								3.9	8.42
4/2/2019	18.3				39.9	66	15.7		
9/17/2019	37.5							3.96	8.59
9/18/2019					42.8	65.3	29.5		
2/17/2020									8.74
2/18/2020	19.6								
2/25/2020								3.81	
2/26/2020					17.5	69.7	28		
7/27/2020	20.2								
7/28/2020					44.2	64.2	22.3		
7/29/2020								3.77	8.93
4/5/2021	12.8								9.25
4/6/2021								3.9	
4/7/2021					18.8	45.5	22.4		
4/12/2021		4.13	3.05						
4/13/2021				4.18					
9/21/2021		2.19	2.78	3.99				3.8	9.17
9/27/2021	11				14.6	45.3	16.5		
4/19/2022		2.03	2.71	3.8					
5/2/2022	8.75							3.33	8.5
5/3/2022					12.8	26.9	12.6		
8/29/2022		1.74	2.15	3.29					
8/30/2022	8.56				12.6	23.9	12		
8/31/2022								2.97	8.1
1/25/2023							14.5	3.58	9.4

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							<0.001015		<0.00102
3/30/2016	<0.01	<0.01	<0.00102	<0.00102					
5/17/2016	<0.01				<0.01		<0.001015		<0.00102
5/18/2016		<0.01	<0.00102	<0.00102					
5/19/2016						<0.00102			
7/11/2016					<0.01	<0.00102			
7/13/2016	<0.01	<0.01	<0.00102						
7/14/2016				<0.00102			<0.001015		<0.00102
7/18/2016									
8/22/2016						<0.00102			
9/12/2016			<0.00102	<0.00102					
9/13/2016	<0.01	<0.01			<0.01		<0.001015		<0.00102
9/14/2016						<0.00102			
11/14/2016		<0.01	<0.00102	<0.00102			<0.001015		
11/15/2016	<0.01				<0.01	<0.00102			
11/16/2016									<0.00102
1/3/2017						<0.00102			
2/27/2017					<0.01	<0.00102			
2/28/2017	<0.01	<0.01	<0.00102	<0.00102			<0.001015		<0.00102
5/22/2017	<0.01	<0.01				<0.00102			
5/24/2017			<0.00102	<0.00102	<0.01		<0.001015		<0.00102
6/19/2017	<0.01	<0.01					<0.001015		<0.00102
6/20/2017						<0.00102			
6/21/2017			<0.00102	<0.00102	<0.01				
1/9/2018		<0.01	<0.00102	<0.00102	<0.01	<0.00102	<0.001015		<0.00102
1/10/2018	<0.01								
4/16/2018	<0.01	<0.01	<0.00102						
4/19/2018				<0.00102	<0.01	<0.00102	<0.001015		<0.00102
10/1/2018							<0.001015		<0.00102
10/2/2018	<0.01								
10/4/2018		<0.01	<0.00102						
10/5/2018				<0.00102	<0.01	<0.00102			
12/17/2018									
2/25/2019								<0.001015	
2/27/2019									
4/3/2019	<0.01	<0.01	<0.00102	<0.00102	<0.01	<0.00102	<0.001015		<0.00102
5/7/2019						<0.00102			
9/16/2019	<0.01	<0.01	<0.00102				<0.001015	<0.001015	
9/17/2019				<0.00102	<0.01				<0.00102
9/18/2019						<0.00102			
2/17/2020	<0.01	<0.01							
2/18/2020			<0.00102						
2/19/2020				<0.00102	<0.01				
2/25/2020						<0.00102	<0.001015	<0.001015	
2/26/2020									<0.00102
7/22/2020	<0.01	<0.01							
7/23/2020					<0.01				
7/27/2020			<0.00102	<0.00102					
7/28/2020						<0.00102	<0.001015	<0.001015	
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 4/19/2023 6:56 PM View: Constituents View
 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						
8/30/2022							<0.001015	<0.001015	<0.00102
8/31/2022	0.000378 (J)					0.000323 (J)			
9/6/2022		0.000929 (J)	0.000347 (J)		0.000289 (J)				
9/7/2022				0.000286 (J)					
1/24/2023						<0.00102		0.000392 (J)	
1/25/2023		0.00101 (J)							
1/30/2023							0.000272 (J)		<0.00102
1/31/2023					0.000209 (J)				
2/1/2023				<0.00102					
2/6/2023	0.0003 (J)		0.000279 (J)						

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			<0.00102
8/31/2022	0.000336 (J)	0.000343 (J)	
9/6/2022			
9/7/2022			
1/24/2023	<0.00102		<0.00102
1/25/2023		<0.00102	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<0.01							
3/29/2016			<0.00102						
5/18/2016	<0.00102	<0.01	<0.00102						
7/11/2016		<0.01							
7/13/2016	<0.00102		<0.00102			<0.00102			
7/14/2016							<0.001015		
8/22/2016						<0.00102	<0.001015		
9/13/2016	<0.00102					<0.00102	<0.001015		
9/14/2016		<0.01	<0.00102						
11/14/2016			<0.00102						
11/15/2016						<0.00102	<0.001015		
11/16/2016	<0.00102	<0.01							
1/3/2017						<0.00102	<0.001015		
2/27/2017	<0.00102								
2/28/2017			<0.00102						
3/1/2017		<0.01				<0.00102	<0.001015		
5/22/2017	<0.00102								
5/23/2017		<0.01				<0.00102	<0.001015		
5/24/2017			<0.00102						
6/19/2017		<0.01	<0.00102						
6/20/2017						<0.00102	<0.001015		
6/21/2017	<0.00102								
1/9/2018			<0.00102					<0.001015	
1/10/2018	<0.00102	<0.01				<0.00102			
4/17/2018						<0.00102	<0.001015		
4/19/2018	<0.00102	<0.01	<0.00102						
10/1/2018			<0.00102						
10/2/2018	<0.00102								
10/3/2018		<0.01							
10/4/2018						<0.00102	<0.001015		
12/5/2018								<0.001015	<0.01
12/6/2018									
12/13/2018				<0.00102					
2/26/2019									
2/27/2019					<0.01				
4/1/2019	<0.00102	<0.01							
4/2/2019						<0.00102	<0.001015		
4/3/2019			<0.00102						
9/16/2019									
9/17/2019									<0.01
9/18/2019	<0.00102	<0.01	<0.00102	<0.00102	<0.01	<0.00102	<0.001015	<0.001015	
2/18/2020	<0.00102								
2/19/2020								<0.001015	<0.01
2/25/2020			<0.00102	<0.00102	<0.01				
2/26/2020						<0.00102	<0.001015		
7/21/2020								<0.001015	<0.01
7/22/2020			<0.00102	<0.00102	<0.01				
7/27/2020	<0.00102								
7/28/2020						<0.00102	<0.001015		
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 4/19/2023 6:56 PM View: Constituents View
 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)		
8/29/2022					0.00173				
8/30/2022	<0.00102		<0.00102	<0.00102		<0.00102	<0.001015		
8/31/2022									
9/6/2022									
9/7/2022								<0.001015	0.000268 (J)
1/24/2023			<0.00102	<0.00102	0.000234 (J)				
1/25/2023	<0.00102								
1/30/2023									
1/31/2023								0.000231 (J)	0.000224 (J)
2/6/2023						<0.00102	0.000237 (J)		
2/7/2023									

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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		<0.01	
12/6/2018	<0.01		
12/13/2018			
2/26/2019			<0.01
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.01
9/17/2019			
9/18/2019	<0.01	<0.01	
2/18/2020			
2/19/2020	<0.01		
2/25/2020		<0.01	<0.01
2/26/2020			
7/21/2020		<0.01	
7/22/2020	<0.01		
7/27/2020			
7/28/2020			
7/29/2020			<0.01
4/5/2021			0.000648 (J)
4/6/2021		0.000362 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	0.000296 (J)		
8/30/2022			
8/31/2022			0.000281 (J)
9/6/2022		0.000321 (J)	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.000278 (J)
1/31/2023			
2/6/2023		0.000248 (J)	
2/7/2023	0.000303 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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		<0.01							
5/17/2016		<0.01							
7/11/2016		<0.01							
9/14/2016		<0.01							
11/16/2016		<0.01							
3/1/2017		<0.01							
5/23/2017		<0.01							
6/19/2017		<0.01							
1/10/2018		<0.01							
4/19/2018		<0.01							
10/3/2018		<0.01							
2/26/2019	<0.00102								
4/2/2019		<0.01							
9/17/2019	<0.00102	<0.01							
9/26/2019	<0.00102								
10/22/2019			<0.00102						
2/19/2020		<0.01	<0.00102				<0.00102		
2/25/2020	<0.00102					<0.01			
2/26/2020					<0.00102				
4/29/2020				<0.00102				<0.001015	<0.00102
7/20/2020					<0.00102				<0.00102
7/21/2020						<0.01	<0.00102	<0.001015	
7/23/2020			<0.00102						
7/27/2020		<0.01		<0.00102					
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)						
4/12/2021									
9/21/2021									
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)	
4/19/2022									
4/26/2022	0.00024 (J)				0.0002 (J)	0.00032 (J)			<0.00102
4/27/2022				<0.00102			<0.00102	<0.001015	
5/2/2022			0.00021 (J)						
5/3/2022		0.00044 (J)							
8/29/2022									
8/30/2022		0.000458 (J)							
8/31/2022	0.000363 (J)		0.000285 (J)	0.000297 (J)					
9/6/2022					0.000276 (J)	0.000279 (J)			<0.00102
9/7/2022							<0.00102	<0.001015	
1/24/2023	<0.00102			<0.00102					
1/25/2023						0.000256 (J)			<0.00102
1/31/2023			<0.00102				<0.00102		
2/1/2023									
2/7/2023		0.000462 (J)			<0.00102			0.000235 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.00102		
7/20/2020	<0.00102		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.000245 (J)		
4/5/2021			
4/6/2021			
4/12/2021		0.000599 (J)	0.000345 (J)
9/21/2021		0.00079 (J)	0.00033 (J)
9/22/2021			
9/27/2021	0.00038 (J)		
9/28/2021			
9/29/2021			
4/19/2022		0.00066 (J)	0.0003 (J)
4/26/2022	<0.00102		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.000511 (J)	<0.00102
8/30/2022			
8/31/2022			
9/6/2022	0.000253 (J)		
9/7/2022			
1/24/2023	<0.00102		
1/25/2023			
1/31/2023			
2/1/2023		0.00041 (J)	
2/7/2023			<0.00102

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.00102	
3/30/2016	0.00322 (J)				<0.01	<0.00102	<0.00102		
4/4/2016									<0.00102
5/17/2016	<0.01								
5/19/2016						<0.00102	<0.00102		
5/23/2016					<0.01			<0.00102	<0.00102
7/11/2016	<0.01								
7/12/2016								<0.00102	<0.00102
7/13/2016						<0.00102	<0.00102		
7/14/2016					<0.01				
9/13/2016					<0.01	<0.00102	<0.00102	<0.00102	<0.00102
9/14/2016	<0.01								
11/15/2016					<0.01	<0.00102	<0.00102	<0.00102	<0.00102
11/16/2016	<0.01								
2/28/2017	<0.01							<0.00102	<0.00102
3/1/2017					<0.01	<0.00102	<0.00102		
5/23/2017					<0.01	<0.00102	<0.00102		
5/24/2017	<0.01							<0.00102	<0.00102
6/20/2017					<0.01	<0.00102	<0.00102	<0.00102	<0.00102
6/21/2017	<0.01								
1/9/2018					<0.01				
1/10/2018	<0.01					<0.00102	<0.00102	0.00395 (J)	<0.00102
4/17/2018					<0.01	<0.00102	<0.00102	<0.00102	<0.00102
4/19/2018	<0.01								
10/1/2018					<0.01			<0.00102	<0.00102
10/3/2018	<0.01								
10/4/2018						<0.00102	<0.00102		
4/1/2019								<0.00102	<0.00102
4/2/2019	<0.01				<0.01	<0.00102	<0.00102		
9/17/2019	<0.01							<0.00102	<0.00102
9/18/2019					<0.01	<0.00102	<0.00102		
2/17/2020									<0.00102
2/18/2020	<0.01								
2/25/2020								<0.00102	
2/26/2020					<0.01	<0.00102	<0.00102		
7/27/2020	<0.01								
7/28/2020					<0.01	<0.00102	<0.00102		
7/29/2020								<0.00102	<0.00102
4/5/2021	0.000909 (J)								0.000295 (J)
4/6/2021								0.000333 (J)	
4/7/2021					0.000278 (J)	0.000259 (J)	0.000506 (J)		
4/12/2021		0.000871 (J)	0.000441 (J)						
4/13/2021				0.000307 (J)					
9/21/2021		0.00113	0.00045 (J)	0.0005 (J)				0.00031 (J)	0.00032 (J)
9/27/2021	0.00082 (J)				0.00036 (J)	0.00035 (J)	0.00037 (J)		
4/19/2022		0.00106	0.00048 (J)	0.00048 (J)					
5/2/2022	0.00074 (J)							0.00031 (J)	0.00029 (J)
5/3/2022					0.00033 (J)	0.0003 (J)	0.00035 (J)		
8/29/2022		0.000944 (J)	0.000279 (J)	0.000563 (J)					
8/30/2022	0.00055 (J)				0.000268 (J)	<0.00102	<0.00102		
8/31/2022								0.000367 (J)	0.000286 (J)
1/25/2023							<0.00102	<0.00102	<0.00102

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		0.000818 (J)	0.000327 (J)	0.000724 (J)					
2/6/2023					0.000449 (J)	<0.00102			
2/7/2023	0.000692 (J)								

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							<0.005		<0.0002
3/30/2016	<0.0002	<0.000203	<0.005	<0.0002					
5/17/2016	<0.0002				<0.0002		<0.005		<0.0002
5/18/2016		<0.000203	<0.005	<0.0002					
5/19/2016						0.00207 (J)			
7/11/2016					<0.0002	<0.005			
7/13/2016	<0.0002	<0.000203	<0.005						
7/14/2016				<0.0002			<0.005		<0.0002
7/18/2016									
8/22/2016						<0.005			
9/12/2016			<0.005	<0.0002					
9/13/2016	<0.0002	<0.000203			<0.0002		<0.005		<0.0002
9/14/2016						<0.005			
11/14/2016		<0.000203	<0.005	<0.0002			<0.005		
11/15/2016	<0.0002				<0.0002	<0.005			
11/16/2016									<0.0002
1/3/2017						<0.005			
2/27/2017					<0.0002	<0.005			
2/28/2017	<0.0002	<0.000203	<0.005	<0.0002			<0.005		<0.0002
5/22/2017	<0.0002	<0.000203				<0.005			
5/24/2017			<0.005	<0.0002	<0.0002		<0.005		<0.0002
6/19/2017	<0.0002	<0.000203					<0.005		<0.0002
6/20/2017						<0.005			
6/21/2017			<0.005	<0.0002	<0.0002				
1/9/2018		<0.000203	<0.005	<0.0002	<0.0002	<0.005	<0.005		<0.0002
1/10/2018	<0.0002								
4/16/2018	<0.0002	<0.000203	<0.005						
4/19/2018				<0.0002	<0.0002	<0.005	<0.005		<0.0002
10/1/2018							<0.005		<0.0002
10/2/2018	<0.0002								
10/4/2018		<0.000203	<0.005						
10/5/2018				<0.0002	<0.0002	<0.005			
12/17/2018									
2/25/2019								<0.005	
2/27/2019									
4/3/2019	<0.0002	<0.000203	<0.005	<0.0002	<0.0002	<0.005	<0.005		<0.0002
5/7/2019						<0.005			
9/16/2019	<0.0002	<0.000203	<0.005				<0.005	<0.005	
9/17/2019				<0.0002	<0.0002				<0.0002
9/18/2019						<0.005			
2/17/2020	<0.0002	<0.000203							
2/18/2020			<0.005						
2/19/2020				<0.0002	<0.0002				
2/25/2020						<0.005	<0.005	<0.005	
2/26/2020									<0.0002
7/22/2020	<0.0002	<0.000203							
7/23/2020					<0.0002				
7/27/2020			<0.005	<0.0002					
7/28/2020						<0.005	<0.005	<0.005	
7/29/2020									<0.0002
4/5/2021	<0.0002	<0.000203	0.000113 (J)				0.000679	0.000888	

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Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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	<0.000203							
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	<0.000203		0.00014 (J)		0.00027			
5/3/2022			0.00022						
8/30/2022							0.000978	0.00108	<0.0002
8/31/2022	<0.0002					0.000193 (J)			
9/6/2022		<0.000203	0.00019 (J)		<0.0002				
9/7/2022				9.4E-05 (J)					
1/24/2023						0.000344		0.00151	
1/25/2023		7.5E-05 (J)							
1/30/2023							0.00119		<0.0002
1/31/2023					<0.0002				
2/1/2023				0.000152 (J)					
2/6/2023	<0.0002		0.000225						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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			<0.005
3/30/2016			
5/17/2016			<0.005
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.005
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.005
11/14/2016			<0.005
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.005
5/22/2017			
5/24/2017			<0.005
6/19/2017			<0.005
6/20/2017			
6/21/2017			
1/9/2018			<0.005
1/10/2018			
4/16/2018			
4/19/2018			<0.005
10/1/2018			<0.005
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.00461 (J)		
2/25/2019			
2/27/2019		<0.000203	
4/3/2019			<0.005
5/7/2019			
9/16/2019			
9/17/2019		<0.000203	
9/18/2019	0.00327 (J)		<0.005
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.005
2/26/2020	0.00265 (J)	<0.000203	
7/22/2020			<0.005
7/23/2020	0.00251 (J)	<0.000203	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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	<0.000203	
4/20/2022	0.00247		
4/26/2022		7E-05 (J)	0.0016
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			0.00194
8/31/2022	0.00155	<0.000203	
9/6/2022			
9/7/2022			
1/24/2023	0.00349		0.00238
1/25/2023		8.7E-05 (J)	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<0.005	<0.005							
3/29/2016			<0.0002						
5/18/2016	<0.005	<0.005	<0.0002						
7/11/2016		<0.005							
7/13/2016	<0.005		<0.0002			<0.005			
7/14/2016							<0.005		
8/22/2016						<0.005	<0.005		
9/13/2016	<0.005					<0.005	<0.005		
9/14/2016		<0.005	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.005	<0.005		
11/16/2016	<0.005	<0.005							
1/3/2017						<0.005	<0.005		
2/27/2017	<0.005								
2/28/2017			<0.0002						
3/1/2017		<0.005				<0.005	<0.005		
5/22/2017	<0.005								
5/23/2017		<0.005				<0.005	<0.005		
5/24/2017			<0.0002						
6/19/2017		<0.005	<0.0002						
6/20/2017						<0.005	<0.005		
6/21/2017	<0.005								
1/9/2018			<0.0002					<0.005	
1/10/2018	<0.005	<0.005				<0.005			
4/17/2018						<0.005	<0.005		
4/19/2018	<0.005	<0.005	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.005								
10/3/2018		<0.005							
10/4/2018						<0.005	<0.005		
12/5/2018								<0.0002	<0.0002
12/6/2018									
12/13/2018				0.00427 (J)					
2/26/2019									
2/27/2019					<0.000203				
4/1/2019	<0.005	<0.005							
4/2/2019						<0.005	<0.005		
4/3/2019			<0.0002						
9/16/2019									
9/17/2019									<0.0002
9/18/2019	<0.005	<0.005	<0.0002	0.00207 (J)	<0.000203	<0.005	<0.005	<0.0002	
2/18/2020	<0.005								
2/19/2020								<0.0002	<0.0002
2/25/2020			<0.0002	<0.005	<0.000203				
2/26/2020						<0.005	<0.005		
7/21/2020								<0.0002	<0.0002
7/22/2020			<0.0002	<0.005	<0.000203				
7/27/2020	<0.005								
7/28/2020						<0.005	<0.005		
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 4/19/2023 6:56 PM View: Constituents View
 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	<0.000203				
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)		
8/29/2022					0.000285				
8/30/2022	0.000137 (J)		<0.0002	0.000548		0.00109	0.000334		
8/31/2022									
9/6/2022									
9/7/2022								<0.0002	<0.0002
1/24/2023			<0.0002	0.000682	0.000255				
1/25/2023	0.000132 (J)								
1/30/2023									
1/31/2023								<0.0002	<0.0002
2/6/2023						0.000721	0.000147 (J)		
2/7/2023									

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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			<0.005
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.005
9/17/2019			
9/18/2019	<0.0002	<0.0002	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		<0.0002	<0.005
2/26/2020			
7/21/2020		<0.0002	
7/22/2020	<0.0002		
7/27/2020			
7/28/2020			
7/29/2020			<0.005
4/5/2021			0.000304
4/6/2021		<0.0002	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	<0.0002		
8/30/2022			
8/31/2022			0.000205
9/6/2022		<0.0002	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.000319
1/31/2023			
2/6/2023		<0.0002	
2/7/2023	<0.0002		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		<0.0002							
7/11/2016		<0.0002							
9/14/2016		<0.0002							
11/16/2016		<0.0002							
3/1/2017		<0.0002							
5/23/2017		<0.0002							
6/19/2017		<0.0002							
1/10/2018		<0.0002							
4/19/2018		<0.0002							
10/3/2018		<0.0002							
2/26/2019	<0.0002								
4/2/2019		<0.0002							
9/17/2019	<0.0002	<0.0002							
9/26/2019	<0.0002								
10/22/2019			<0.005						
2/19/2020		<0.0002	<0.005				<0.0002		
2/25/2020	<0.0002					<0.000203			
2/26/2020					<0.0002				
4/29/2020				<0.0002				<0.0002	<0.0002
7/20/2020					<0.0002				<0.0002
7/21/2020						<0.000203	<0.0002	<0.0002	
7/23/2020			<0.005						
7/27/2020		<0.0002		<0.0002					
7/29/2020	<0.0002								
3/30/2021					<0.0002	<0.000203	<0.0002	<0.0002	<0.0002
4/5/2021	<0.0002	<0.0002		<0.0002					
4/6/2021			0.00127						
4/12/2021									
9/21/2021									
9/22/2021						<0.000203			<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	
4/19/2022									
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							
8/29/2022									
8/30/2022		0.000184 (J)							
8/31/2022	<0.0002		0.00121	<0.0002					
9/6/2022					<0.0002	<0.000203			<0.0002
9/7/2022							<0.0002	<0.0002	
1/24/2023	<0.0002			<0.0002					
1/25/2023						8.5E-05 (J)			<0.0002
1/31/2023			0.00135				<0.0002		
2/1/2023									
2/7/2023		<0.0002			<0.0002			<0.0002	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.0002		
7/20/2020	<0.0002		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.0002		
4/5/2021			
4/6/2021			
4/12/2021		9.61E-05 (J)	<0.0002
9/21/2021		8E-05 (J)	<0.0002
9/22/2021			
9/27/2021	<0.0002		
9/28/2021			
9/29/2021			
4/19/2022		0.00013 (J)	<0.0002
4/26/2022	<0.0002		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.0001 (J)	<0.0002
8/30/2022			
8/31/2022			
9/6/2022	<0.0002		
9/7/2022			
1/24/2023	<0.0002		
1/25/2023			
1/31/2023			
2/1/2023		0.000101 (J)	
2/7/2023			<0.0002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.0002	
3/30/2016	<0.0002				<0.0002	<0.0002	<0.0002		
4/4/2016									<0.0002
5/17/2016	<0.0002								
5/19/2016					<0.0002	<0.0002			
5/23/2016					<0.0002			<0.0002	<0.0002
7/11/2016	<0.0002								
7/12/2016								<0.0002	<0.0002
7/13/2016						<0.0002	<0.0002		
7/14/2016					<0.0002				
9/13/2016					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/14/2016	<0.0002								
11/15/2016					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/16/2016	<0.0002								
2/28/2017	<0.0002							<0.0002	<0.0002
3/1/2017					<0.0002	<0.0002	<0.0002		
5/23/2017					<0.0002	<0.0002	<0.0002		
5/24/2017	<0.0002							<0.0002	<0.0002
6/20/2017					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/21/2017	<0.0002								
1/9/2018					<0.0002				
1/10/2018	<0.0002					<0.0002	<0.0002	<0.0002	<0.0002
4/17/2018					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/19/2018	<0.0002								
10/1/2018					<0.0002			<0.0002	<0.0002
10/3/2018	<0.0002								
10/4/2018					<0.0002	<0.0002			
4/1/2019								<0.0002	<0.0002
4/2/2019	<0.0002				<0.0002	<0.0002	<0.0002		
9/17/2019	<0.0002							<0.0002	<0.0002
9/18/2019					<0.0002	<0.0002	<0.0002		
2/17/2020									<0.0002
2/18/2020	<0.0002								
2/25/2020								<0.0002	
2/26/2020					<0.0002	<0.0002	<0.0002		
7/27/2020	<0.0002								
7/28/2020					<0.0002	<0.0002	<0.0002		
7/29/2020								<0.0002	<0.0002
4/5/2021	<0.0002								<0.0002
4/6/2021								9.45E-05 (J)	
4/7/2021					9.62E-05 (J)	<0.0002	<0.0002		
4/12/2021		0.000109 (J)	0.000167 (J)						
4/13/2021				0.00168					
9/21/2021		<0.0002	<0.000203	<0.0002				<0.0002	<0.0002
9/27/2021	<0.0002				<0.0002	<0.0002	<0.0002		
4/19/2022		<0.0002	8E-05 (J)	0.00018 (J)					
5/2/2022	<0.0002							<0.0002	<0.0002
5/3/2022					9E-05 (J)	<0.0002	<0.0002		
8/29/2022		<0.0002	<0.000203	0.000118 (J)					
8/30/2022	7.8E-05 (J)				0.000112 (J)	<0.0002	<0.0002		
8/31/2022								<0.0002	<0.0002
1/25/2023							<0.0002	<0.0002	<0.0002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.0002	7.3E-05 (J)	0.000141 (J)					
2/6/2023					0.000209	<0.0002			
2/7/2023	<0.0002								

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View

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)						
8/30/2022							4.95	2.99	1.14
8/31/2022	0.73 (U)					0.868 (U)			
9/6/2022		0.101 (U)	0.847 (U)		1.92				
9/7/2022				0.895 (U)					
1/24/2023						0.984		3.45	
1/25/2023		0.0749 (U)							
1/30/2023							6.1		0.926 (U)
1/31/2023					0.93				
2/1/2023				0.682 (U)					
2/6/2023	0.256 (U)		1.06						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			1.46
8/31/2022	1.62	11	
9/6/2022			
9/7/2022			
1/24/2023	1.57		1.28
1/25/2023		14	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	0.373 (U)		
8/30/2022			
8/31/2022			6.83
9/6/2022		0.427 (U)	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			7.25
1/31/2023			
2/6/2023		0.517 (U)	
2/7/2023	0.0157 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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)							
5/17/2016		0.222 (U)							
7/11/2016		0.118 (U)							
9/14/2016		0.265 (U)							
11/16/2016		0.295 (U)							
3/1/2017		0.0981 (U)							
6/19/2017		0.194 (U)							
1/10/2018		0.753							
4/19/2018		0.171 (U)							
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)							
9/26/2019	16.2								
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)					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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)							
8/29/2022									
8/30/2022		0.842 (U)							
8/31/2022	17		1.91	0.888 (U)					
9/6/2022					2.26	1.8			1.93
9/7/2022							1.18	1 (U)	
1/24/2023	17.799999			0.846					
1/25/2023						1.07			1.07
1/31/2023			1.91				0.515 (U)		
2/1/2023									
2/7/2023		0.231 (U)			1.56			0.925	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

Date	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	3.65		
7/20/2020	4.06		
7/21/2020			
7/27/2020			
7/29/2020			
3/30/2021	4.78		
4/5/2021			
4/6/2021			
4/12/2021		0.369 (U)	0.176 (U)
9/21/2021		0.655 (U)	0.723 (U)
9/22/2021			
9/27/2021	4		
9/28/2021			
9/29/2021			
4/19/2022		0.024 (U)	1.02
4/26/2022	4.41		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.53 (U)	0.527 (U)
8/30/2022			
8/31/2022			
9/6/2022	3.92		
9/7/2022			
1/24/2023	3.82		
1/25/2023			
1/31/2023			
2/1/2023		0.0722 (U)	
2/7/2023			0.632 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								3 (U)	
3/30/2016	3 (U)				3 (U)	3 (U)			
4/4/2016									3 (U)
5/17/2016	0.294 (U)								
5/19/2016						0.544	0.116 (U)		
5/23/2016					0.45			-0.317 (U)	0.0417 (U)
7/11/2016	-0.021 (U)								
7/12/2016								-0.0583 (U)	0.208 (U)
7/13/2016						0.0469 (U)	0.187 (U)		
7/14/2016					0.84				
9/13/2016					0.685	0.179 (U)	0.0165 (U)	0.127 (U)	0.436 (U)
9/14/2016	0.705								
11/15/2016					0.804	1.45	0.236 (U)	0.406 (U)	0.775
11/16/2016	0.491 (U)								
2/28/2017	0.367 (U)							-0.00408 (U)	0.42 (U)
3/1/2017					0.477	0.166 (U)	0.213 (U)		
6/20/2017					0.737	0.484	0.16 (U)	0.22 (U)	0.53
6/21/2017	0.0763 (U)								
1/9/2018					0.714				
1/10/2018	0.818					0.544	0.889	0.0982 (U)	0.903
4/17/2018					0.641	0.719	0.623	-0.237 (U)	0.293 (U)
4/19/2018	0.39 (U)								
10/1/2018					0.651			0.601	1.07
10/3/2018	1.23								
10/4/2018						0.558	0.971		
4/1/2019								-0.0724 (U)	0.334
4/2/2019	0.427				0.245 (U)	0.369	0.326 (U)		
9/17/2019	0.767							0.645	0.194 (U)
9/18/2019					0.435 (U)	0.586	0.56 (U)		
2/17/2020									0.38 (U)
2/18/2020	0.231 (U)								
2/25/2020								0.362 (U)	
2/26/2020					0.661	0.746	0.512 (U)		
7/27/2020	0.97 (U)								
7/28/2020					0.907 (U)	0.292 (U)	0.652 (U)		
7/29/2020								0.398 (U)	0.28 (U)
4/5/2021	0.474 (U)								0.843 (U)
4/6/2021								0.53 (U)	
4/7/2021					1.4	0.387 (U)	0.743 (U)		
4/12/2021		0.161 (U)	0.456 (U)						
4/13/2021				0.404 (U)					
9/21/2021		0.737 (U)	0.828 (U)	0.491 (U)				0.0496 (U)	1.05 (U)
9/27/2021	0.745 (U)				1.34	0.314 (U)	0.319 (U)		
4/19/2022		0.455 (U)	0.392 (U)	0.853 (U)					
5/2/2022	0.658 (U)							0.465 (U)	0.891
5/3/2022					0.958 (U)	0.478 (U)	0.596 (U)		
8/29/2022		0.00194 (U)	0.246 (U)	0.63 (U)					
8/30/2022	1.11				0.775 (U)	0.856 (U)	0.842 (U)		
8/31/2022								0.41 (U)	0.741 (U)
1/25/2023							0.658 (U)	0.309 (U)	0.441 (U)
2/1/2023		0.389 (U)	0.565 (U)	0.531 (U)					
2/6/2023					0.147 (U)	0.683 (U)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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				<0.3	<0.3			
11/16/2016									0.103 (J)
1/3/2017						<0.3			
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 4/19/2023 6:56 PM View: Constituents View
 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						
8/30/2022							0.114 (J)	0.0733 (J)	0.115 (J)
8/31/2022	<0.125					0.0842 (J)			
9/6/2022		<0.125	<0.125		0.0891 (J)				
9/7/2022				<0.125					
1/24/2023						0.0768 (J)		0.0946 (J)	
1/25/2023		<0.125							
1/30/2023							0.117 (J)		0.123 (J)
1/31/2023					0.106 (J)				
2/1/2023				0.0758 (J)					
2/6/2023	<0.125		0.0753 (J)						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			<0.125
8/31/2022	0.0679 (J)	<0.125	
9/6/2022			
9/7/2022			
1/24/2023	0.103 (J)		<0.125
1/25/2023		<0.125	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<0.1							
1/3/2017						<0.125	<0.125		
2/27/2017	<0.125								
2/28/2017			<0.125						
3/1/2017		<0.1				0.04 (J)	0.06 (J)		
5/22/2017	0.04 (J)								
5/23/2017		<0.1				0.04 (J)	0.07 (J)		
5/24/2017			0.04 (J)						
6/19/2017		<0.1	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		<0.1				<0.125	0.06 (J)		
1/9/2018			0.04 (J)				0.07 (J)		
1/10/2018	0.04 (J)	<0.1				0.06 (J)			
4/17/2018						<0.125	0.06 (J)		
4/19/2018	0.04 (J)	<0.1	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)	<0.1							
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)	<0.1	<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)	<0.1				
7/27/2020	<0.125								
7/28/2020						<0.125	<0.125		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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)		
8/29/2022					0.0767 (J)				
8/30/2022	<0.125		<0.125	0.0779 (J)		<0.125	<0.125		
8/31/2022									
9/6/2022									
9/7/2022								0.0739 (J)	<0.125
1/24/2023			<0.125	0.092 (J)	0.117 (J)				
1/25/2023	<0.125								
1/30/2023									
1/31/2023									
2/6/2023						0.0676 (J)	0.0686 (J)	0.0635 (J)	0.0812 (J)
2/7/2023									

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	<0.125		
8/30/2022			
8/31/2022			<0.125
9/6/2022		<0.125	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.0758 (J)
1/31/2023			
2/6/2023		<0.125	
2/7/2023	<0.125		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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)							
5/17/2016		0.068 (J)							
7/11/2016		0.057 (J)							
9/14/2016		0.017 (J)							
11/16/2016		<0.125							
3/1/2017		<0.125							
5/23/2017		<0.125							
6/19/2017		<0.125							
8/15/2017		<0.125							
1/10/2018		<0.125							
4/19/2018		<0.125							
10/3/2018		<0.125							
2/26/2019	0.106								
4/2/2019		<0.125							
9/17/2019	0.0669 (J)	<0.125							
9/26/2019	0.0749 (J)								
10/22/2019			0.187						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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						
5/3/2022		<0.125							
8/29/2022									
8/30/2022		<0.125							
8/31/2022	<0.125		0.131	0.208					
9/6/2022					0.165	0.245			0.421
9/7/2022							0.0807 (J)	0.129	
1/24/2023	<0.125			0.204					
1/25/2023						0.234			0.411
1/31/2023			0.159				0.0808 (J)		
2/1/2023									
2/7/2023		<0.125			0.14			0.138	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.164		
7/20/2020	0.158		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.169		
4/5/2021			
4/6/2021			
4/12/2021		<0.125	0.163
9/21/2021		0.0969 (J)	0.181
9/22/2021			
9/27/2021	0.187		
9/28/2021			
9/29/2021			
4/19/2022		<0.125	0.107 (J)
4/26/2022	0.152		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.0941 (J)	0.0988 (J)
8/30/2022			
8/31/2022			
9/6/2022	0.235		
9/7/2022			
1/24/2023	0.158		
1/25/2023			
1/31/2023			
2/1/2023		<0.125	
2/7/2023			0.109 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.104 (J)	
3/30/2016	0.023 (J)				0.048 (J)	0.056 (J)	0.034 (J)		
4/4/2016									0.109 (J)
5/17/2016	0.065 (J)								
5/19/2016						0.09 (J)	0.072 (J)		
5/23/2016					0.076 (J)			0.131 (J)	0.1 (J)
7/11/2016	0.054 (J)								
7/12/2016								0.105 (J)	0.11 (J)
7/13/2016						0.067 (J)	0.054 (J)		
7/14/2016					0.058 (J)				
9/13/2016					0.025 (J)	0.026 (J)	0.021 (J)	0.057 (J)	0.075 (J)
9/14/2016	0.014 (J)								
11/15/2016					<0.125	<0.125	<0.125	<0.125	0.023 (J)
11/16/2016	<0.125								
2/28/2017	<0.125							0.07 (J)	0.11
3/1/2017					0.04 (J)	<0.125	<0.125		
5/23/2017					0.05 (J)	0.04 (J)	0.04 (J)		
5/24/2017	<0.125							0.09 (J)	0.11
6/20/2017					0.06 (J)	0.05 (J)	0.04 (J)	0.08 (J)	0.12
6/21/2017	<0.125								
8/15/2017	<0.125				0.05 (J)	0.04 (J)	0.04 (J)	0.09 (J)	
8/16/2017									<0.1 (U*)
1/9/2018					0.04 (J)				
1/10/2018	<0.125					0.04 (J)	0.04 (J)	0.11	0.12
4/17/2018					0.04 (J)	0.04 (J)	<0.125	0.09 (J)	0.12
4/19/2018	<0.125								
10/1/2018					0.05 (J)			0.12	0.14
10/3/2018	<0.125								
10/4/2018						0.05 (J)	0.05 (J)		
4/1/2019								0.0956 (J)	0.136
4/2/2019	<0.125				0.0555 (J)	0.0586 (J)	0.052 (J)		
9/17/2019	<0.125							0.0971 (J)	0.128
9/18/2019					0.0568 (J)	0.0634 (J)	0.0578 (J)		
2/17/2020									0.15
2/18/2020	0.0506 (J)								
2/25/2020								0.0898 (J)	
2/26/2020					0.0647 (J)	<0.125	0.0523 (J)		
7/27/2020	<0.125								
7/28/2020					<0.125	<0.125	<0.125		
7/29/2020								0.0742 (J)	0.116
4/5/2021	0.0842 (J)								0.15
4/6/2021								0.114	
4/7/2021					0.0874 (J)	0.0872 (J)	0.0705 (J)		
4/12/2021		0.0651 (J)	<0.125						
4/13/2021				<0.125					
9/21/2021		0.083 (J)	0.113	0.0656 (J)				0.132	0.181
9/27/2021	0.0702 (J)				0.0989 (J)	0.0862 (J)	0.0882 (J)		
4/19/2022		<0.125	<0.125	<0.125					
5/2/2022	<0.125							0.111 (J)	0.122 (J)
5/3/2022					0.0648 (J)	<0.125	<0.125		
8/29/2022		<0.125	<0.125	<0.125					
8/30/2022	<0.125				<0.125	<0.125	<0.125		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
8/31/2022								<0.125	0.089 (J)
1/25/2023							<0.125	0.0614 (J)	0.101 (J)
2/1/2023		<0.125	<0.125	0.0603 (J)					
2/6/2023					0.0991 (J)	<0.125			
2/7/2023	<0.125								

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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		<0.000203
3/30/2016	<0.0002	<0.000203	<0.0002	<0.0002					
5/17/2016	<0.0002				0.00114 (J)		<0.0002		<0.000203
5/18/2016		<0.000203	<0.0002	<0.0002					
5/19/2016						<0.0002			
7/11/2016					<0.0002	<0.0002			
7/13/2016	<0.0002	<0.000203	<0.0002						
7/14/2016				<0.0002			<0.0002		<0.000203
7/18/2016									
8/22/2016						<0.0002			
9/12/2016			<0.0002	<0.0002					
9/13/2016	<0.0002	<0.000203			<0.0002		<0.0002		<0.000203
9/14/2016						<0.0002			
11/14/2016		<0.000203	<0.0002	<0.0002			<0.0002		
11/15/2016	<0.0002				<0.0002	<0.0002			
11/16/2016									<0.000203
1/3/2017						<0.0002			
2/27/2017					<0.0002	<0.0002			
2/28/2017	<0.0002	<0.000203	<0.0002	<0.0002			<0.0002		<0.000203
5/22/2017	<0.0002	<0.000203				<0.0002			
5/24/2017			<0.0002	<0.0002	<0.0002		<0.0002		<0.000203
6/19/2017	<0.0002	<0.000203					<0.0002		<0.000203
6/20/2017						<0.0002			
6/21/2017			<0.0002	<0.0002	<0.0002				
1/9/2018		<0.000203	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.000203
1/10/2018	<0.0002								
4/16/2018	<0.0002	<0.000203	<0.0002						
4/19/2018				<0.0002	<0.0002	<0.0002	<0.0002		<0.000203
10/1/2018							<0.0002		<0.000203
10/2/2018	<0.0002								
10/4/2018		<0.000203	<0.0002						
10/5/2018				<0.0002	<0.0002	<0.0002			
12/17/2018									
2/25/2019								<0.000203	
2/27/2019									
4/3/2019	<0.0002	<0.000203	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.000203
5/7/2019						<0.0002			
9/16/2019	<0.0002	<0.000203	<0.0002				<0.0002	<0.000203	
9/17/2019				<0.0002	<0.0002				<0.000203
9/18/2019						<0.0002			
2/17/2020	<0.0002	<0.000203							
2/18/2020			<0.0002						
2/19/2020				<0.0002	<0.0002				
2/25/2020						<0.0002	<0.0002	<0.000203	
2/26/2020									<0.000203
7/22/2020	<0.0002	<0.000203							
7/23/2020					<0.0002				
7/27/2020			<0.0002	<0.0002					
7/28/2020						<0.0002	<0.0002	<0.000203	
7/29/2020									<0.000203
4/5/2021	<0.0002	<0.000203	<0.0002				<0.0002	<0.000203	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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			<0.000203
9/21/2021	<0.0002	<0.000203							
9/22/2021			<0.0002	<0.0002	<0.0002				
9/28/2021						<0.0002	<0.0002	<0.000203	
9/29/2021									<0.000203
4/20/2022									<0.000203
4/26/2022									
4/27/2022					<0.0002		<0.0002	<0.000203	
5/2/2022	<0.0002	<0.000203		<0.0002		<0.0002			
5/3/2022			<0.0002						
8/30/2022							<0.0002	<0.000203	<0.000203
8/31/2022	<0.0002					<0.0002			
9/6/2022		<0.000203	<0.0002		<0.0002				
9/7/2022				<0.0002					
1/24/2023						<0.0002		0.000208	
1/25/2023		0.000107 (J)							
1/30/2023							<0.0002		7E-05 (J)
1/31/2023					<0.0002				
2/1/2023				<0.0002					
2/6/2023	<0.0002		<0.0002						

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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		<0.000203	
4/3/2019			<0.0002
5/7/2019			
9/16/2019			
9/17/2019		<0.000203	
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	<0.000203	
7/22/2020			<0.0002
7/23/2020	<0.0002	<0.000203	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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	<0.000203	<0.0002
9/21/2021			
9/22/2021			
9/28/2021			<0.0002
9/29/2021	<0.0002	<0.000203	
4/20/2022	<0.0002		
4/26/2022		<0.000203	<0.0002
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			<0.0002
8/31/2022	<0.0002	<0.000203	
9/6/2022			
9/7/2022			
1/24/2023	<0.0002		<0.0002
1/25/2023		6.8E-05 (J)	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<0.005							
3/29/2016			<0.0002						
5/18/2016	<0.0002	<0.005	<0.0002						
7/11/2016		<0.005							
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		<0.005	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.0002	<0.0002		
11/16/2016	<0.0002	<0.005							
1/3/2017						<0.0002	<0.0002		
2/27/2017	<0.0002								
2/28/2017			<0.0002						
3/1/2017		<0.005				<0.0002	<0.0002		
5/22/2017	<0.0002								
5/23/2017		<0.005				<0.0002	<0.0002		
5/24/2017			<0.0002						
6/19/2017		<0.005	<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	<0.005				<0.0002			
4/17/2018						<0.0002	<0.0002		
4/19/2018	<0.0002	<0.005	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.0002								
10/3/2018		<0.005							
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					<0.005				
4/1/2019	<0.0002	<0.005							
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	<0.005	<0.0002	<0.0002	<0.005	<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	<0.005				
2/26/2020						<0.0002	<0.0002		
7/21/2020								<0.0002	<0.0002
7/22/2020			<0.0002	<0.0002	<0.005				
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 4/19/2023 6:56 PM View: Constituents View
 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		
8/29/2022					0.000847				
8/30/2022	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002		
8/31/2022									
9/6/2022									
9/7/2022								<0.0002	8.7E-05 (J)
1/24/2023			<0.0002	<0.0002	0.000161 (J)				
1/25/2023	<0.0002								
1/30/2023									
1/31/2023								<0.0002	<0.0002
2/6/2023						<0.0002	<0.0002		
2/7/2023									

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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			<0.000203
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.000203
9/17/2019			
9/18/2019	<0.0002	<0.0002	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		<0.0002	<0.000203
2/26/2020			
7/21/2020		<0.0002	
7/22/2020	<0.0002		
7/27/2020			
7/28/2020			
7/29/2020			<0.000203
4/5/2021			0.000129 (J)
4/6/2021		<0.0002	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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			<0.000203
4/19/2022			
4/20/2022	<0.0002		
4/27/2022			0.0001 (J)
5/2/2022		<0.0002	
5/3/2022			
8/29/2022	<0.0002		
8/30/2022			
8/31/2022			<0.000203
9/6/2022		<0.0002	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			7.1E-05 (J)
1/31/2023			
2/6/2023		<0.0002	
2/7/2023	<0.0002		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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)							
5/17/2016		<0.0002							
7/11/2016		<0.0002							
9/14/2016		<0.0002							
11/16/2016		<0.0002							
3/1/2017		<0.0002							
5/23/2017		<0.0002							
6/19/2017		<0.0002							
1/10/2018		<0.0002							
4/19/2018		<0.0002							
10/3/2018		<0.0002							
2/26/2019	<0.0002								
4/2/2019		<0.0002							
9/17/2019	<0.0002	<0.0002							
9/26/2019	<0.0002								
10/22/2019			<0.0002						
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					
7/29/2020	<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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		0.000615							
8/31/2022	<0.0002		<0.0002	<0.0002					
9/6/2022					<0.0002	<0.0002			<0.0002
9/7/2022							<0.0002	<0.0002	
1/24/2023	<0.0002			<0.0002					
1/25/2023						<0.0002			<0.0002
1/31/2023			<0.0002				<0.0002		
2/1/2023									
2/7/2023		<0.0002			<0.0002			<0.0002	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.0002		
7/20/2020	<0.0002		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.0002		
4/5/2021			
4/6/2021			
4/12/2021		0.000124 (J)	<0.0002
9/21/2021		0.00012 (J)	<0.0002
9/22/2021			
9/27/2021	<0.0002		
9/28/2021			
9/29/2021			
4/19/2022		0.0001 (J)	<0.0002
4/26/2022	<0.0002		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.0002	<0.0002
8/30/2022			
8/31/2022			
9/6/2022	<0.0002		
9/7/2022			
1/24/2023	<0.0002		
1/25/2023			
1/31/2023			
2/1/2023		<0.0002	
2/7/2023			<0.0002

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.0002	
3/30/2016	0.00247 (J)			<0.005	<0.0002	<0.0002			
4/4/2016									<0.0002
5/17/2016	<0.0002								
5/19/2016					<0.0002	<0.0002			
5/23/2016				<0.005				<0.0002	<0.0002
7/11/2016	<0.0002								
7/12/2016								<0.0002	<0.0002
7/13/2016					<0.0002	<0.0002			
7/14/2016				<0.005					
9/13/2016				<0.005	<0.0002	<0.0002		<0.0002	<0.0002
9/14/2016	<0.0002								
11/15/2016				<0.005	<0.0002	<0.0002		<0.0002	<0.0002
11/16/2016	<0.0002								
2/28/2017	<0.0002							<0.0002	<0.0002
3/1/2017				<0.005	<0.0002	<0.0002			
5/23/2017				<0.005	<0.0002	<0.0002			
5/24/2017	<0.0002							<0.0002	<0.0002
6/20/2017				<0.005	<0.0002	<0.0002		<0.0002	<0.0002
6/21/2017	<0.0002								
1/9/2018				<0.005					
1/10/2018	<0.0002				<0.0002	<0.0002		<0.0002	<0.0002
4/17/2018				<0.005	<0.0002	<0.0002		<0.0002	<0.0002
4/19/2018	<0.0002								
10/1/2018				<0.005				<0.0002	<0.0002
10/3/2018	<0.0002								
10/4/2018					<0.0002	<0.0002			
4/1/2019								<0.0002	<0.0002
4/2/2019	<0.0002			<0.005	<0.0002	<0.0002			
9/17/2019	<0.0002							<0.0002	<0.0002
9/18/2019				<0.005	<0.0002	<0.0002			
2/17/2020									<0.0002
2/18/2020	<0.0002								
2/25/2020								<0.0002	
2/26/2020				<0.005	<0.0002	<0.0002			
7/27/2020	<0.0002								
7/28/2020				<0.005	<0.0002	<0.0002			
7/29/2020								<0.0002	<0.0002
4/5/2021	<0.0002								<0.0002
4/6/2021								<0.0002	
4/7/2021				0.00014 (J)	<0.0002	<0.0002			
4/12/2021		0.000114 (J)	0.000122 (J)						
4/13/2021				<0.000203					
9/21/2021		<0.0002	<0.000203	<0.000203				<0.0002	<0.0002
9/27/2021	<0.0002				0.0001 (J)	<0.0002	<0.0002		
4/19/2022		<0.0002	<0.000203	7E-05 (J)					
5/2/2022	<0.0002							<0.0002	<0.0002
5/3/2022					0.0001 (J)	<0.0002	<0.0002		
8/29/2022		<0.0002	<0.000203	<0.000203					
8/30/2022	<0.0002				0.00013 (J)	<0.0002	<0.0002		
8/31/2022								<0.0002	<0.0002
1/25/2023							<0.0002	<0.0002	<0.0002

Time Series

Constituent: Lead (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.0002	6.9E-05 (J)	7E-05 (J)					
2/6/2023					0.000353	<0.0002			
2/7/2023	<0.0002								

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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)	<0.05			
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						<0.05			
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 4/19/2023 6:56 PM View: Constituents View
 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						
8/30/2022							0.143	0.331	1.09
8/31/2022	<0.02					0.026			
9/6/2022		<0.02	<0.02		<0.02				
9/7/2022				<0.02					
1/24/2023						0.0258		0.394	
1/25/2023		<0.02							
1/30/2023							0.198		1.33
1/31/2023					<0.02				
2/1/2023				<0.02					
2/6/2023	<0.02		<0.02						

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			0.0456
8/31/2022	0.242	0.493	
9/6/2022			
9/7/2022			
1/24/2023	0.264		0.0457
1/25/2023		0.634	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<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 4/19/2023 6:56 PM View: Constituents View
 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		
8/29/2022					0.0427				
8/30/2022	<0.02		0.117	0.0077 (J)		<0.02	<0.02		
8/31/2022									
9/6/2022									
9/7/2022								<0.02	<0.02
1/24/2023			0.138	0.00829 (J)	0.0422				
1/25/2023	<0.02								
1/30/2023									
1/31/2023								<0.02	<0.02
2/6/2023						<0.02	<0.02		
2/7/2023									

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	<0.02		
8/30/2022			
8/31/2022			0.146
9/6/2022		<0.02	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.152
1/31/2023			
2/6/2023		<0.02	
2/7/2023	<0.02		

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		<0.02							
7/11/2016		<0.02							
9/14/2016		<0.02							
11/16/2016		<0.02							
3/1/2017		<0.02							
5/23/2017		<0.02							
6/19/2017		<0.02							
1/10/2018		<0.02							
4/19/2018		<0.02							
10/3/2018		<0.02							
2/26/2019	0.277								
4/2/2019		<0.02							
9/17/2019	0.289	<0.02							
9/26/2019	0.302								
10/22/2019			<0.02						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		<0.02							
8/31/2022	0.315		<0.02	<0.02					
9/6/2022					0.0659	0.0726			0.0163 (J)
9/7/2022							0.0355	<0.02	
1/24/2023	0.335			<0.02					
1/25/2023						0.0725			0.0151 (J)
1/31/2023			<0.02				0.0305		
2/1/2023									
2/7/2023		<0.02			0.0604			<0.02	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.0377		
7/20/2020	0.0522		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.0615		
4/5/2021			
4/6/2021			
4/12/2021		<0.02	<0.02
9/21/2021		<0.02	<0.02
9/22/2021			
9/27/2021	0.061		
9/28/2021			
9/29/2021			
4/19/2022		<0.02	<0.02
4/26/2022	0.0446		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.02	<0.02
8/30/2022			
8/31/2022			
9/6/2022	0.0431		
9/7/2022			
1/24/2023	0.039		
1/25/2023			
1/31/2023			
2/1/2023		<0.02	
2/7/2023			<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.02	
3/30/2016	0.015 (J)				0.0307 (J)	<0.02	<0.02		
4/4/2016									<0.02
5/17/2016	<0.02								
5/19/2016						<0.02	<0.02		
5/23/2016					0.0374 (J)			<0.02	<0.02
7/11/2016	<0.02								
7/12/2016								<0.02	<0.02
7/13/2016						<0.02	<0.02		
7/14/2016					0.0499 (J)				
9/13/2016					0.0438 (J)	<0.02	<0.02	<0.02	<0.02
9/14/2016	<0.02								
11/15/2016					0.0494 (J)	<0.02	<0.02	<0.02	<0.02
11/16/2016	<0.02								
2/28/2017	<0.02							<0.02	<0.02
3/1/2017					0.0426 (J)	<0.02	<0.02		
5/23/2017					0.0416 (J)	<0.02	<0.02		
5/24/2017	<0.02							<0.02	<0.02
6/20/2017					0.0376 (J)	<0.02	<0.02	<0.02	<0.02
6/21/2017	<0.02								
1/9/2018					0.0461 (J)				
1/10/2018	<0.02					<0.02	<0.02	<0.02	<0.02
4/17/2018					0.0319 (J)	<0.02	<0.02	<0.02	<0.02
4/19/2018	<0.02								
10/1/2018					0.0482			<0.02	<0.02
10/3/2018	<0.02								
10/4/2018						<0.02	<0.02		
4/1/2019								<0.02	<0.02
4/2/2019	<0.02				0.0242	<0.02	<0.02		
9/17/2019	<0.02							<0.02	<0.02
9/18/2019					0.043	<0.02	<0.02		
2/17/2020									<0.02
2/18/2020	<0.02								
2/25/2020								<0.02	
2/26/2020					<0.02	<0.02	<0.02		
7/27/2020	<0.02								
7/28/2020					0.0361	<0.02	<0.02		
7/29/2020								<0.02	<0.02
4/5/2021	<0.02								<0.02
4/6/2021								<0.02	
4/7/2021					0.01 (J)	<0.02	<0.02		
4/12/2021		<0.02	<0.02						
4/13/2021				<0.02					
9/21/2021		<0.02	<0.02	<0.02				<0.02	<0.02
9/27/2021	<0.02				0.00862 (J)	<0.02	<0.02		
4/19/2022		<0.02	<0.02	<0.02					
5/2/2022	<0.02							<0.02	<0.02
5/3/2022					<0.02	0.0178 (J)	<0.02		
8/29/2022		<0.02	<0.02	<0.02					
8/30/2022	<0.02				<0.02	0.00779 (J)	<0.02		
8/31/2022								<0.02	<0.02
1/25/2023							<0.02	<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.02	<0.02	<0.02					
2/6/2023					<0.02	<0.02			
2/7/2023	<0.02								

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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						
8/30/2022							<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005					<0.0005			
9/6/2022		<0.0005	<0.0005		<0.0005				
9/7/2022				<0.0005					
1/24/2023						<0.0005		<0.0005	
1/25/2023		<0.0005							
1/30/2023							<0.0005		<0.0005
1/31/2023					<0.0005				
2/1/2023				<0.0005					
2/6/2023	<0.0005		<0.0005						

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			<0.0005
8/31/2022	<0.0005	<0.0005	
9/6/2022			
9/7/2022			
1/24/2023	<0.0005		<0.0005
1/25/2023		<0.0005	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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		
8/29/2022					<0.0005				
8/30/2022	<0.0005		<0.0005	<0.0005		<0.0005	<0.0005		
8/31/2022									
9/6/2022									
9/7/2022								<0.0005	<0.0005
1/24/2023			<0.0005	<0.0005	<0.0005				
1/25/2023	<0.0005								
1/30/2023									
1/31/2023								<0.0005	<0.0005
2/6/2023						<0.0005	<0.0005		
2/7/2023									

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	<0.0005		
8/30/2022			
8/31/2022			<0.0005
9/6/2022		<0.0005	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.0005
1/31/2023			
2/6/2023		<0.0005	
2/7/2023	<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		<0.0005							
7/11/2016		<0.0005							
9/14/2016		<0.0005							
11/16/2016		<0.0005							
3/1/2017		<0.0005							
5/23/2017		<0.0005							
6/19/2017		<0.0005							
1/10/2018		<0.0005							
4/19/2018		<0.0005							
10/3/2018		<0.0005							
2/26/2019	<0.0005								
4/2/2019		<0.0005							
9/17/2019	<0.0005	<0.0005							
9/26/2019	<0.0005								
10/22/2019			<0.0005						
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					
7/29/2020	<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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		<0.0005							
8/31/2022	<0.0005		<0.0005	<0.0005					
9/6/2022					<0.0005	<0.0005			<0.0005
9/7/2022							<0.0005	<0.0005	
1/24/2023	<0.0005			<0.0005					
1/25/2023						<0.0005			<0.0005
1/31/2023			<0.0005				<0.0005		
2/1/2023									
2/7/2023		<0.0005			<0.0005			<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.0005		
7/20/2020	<0.0005		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.0005		
4/5/2021			
4/6/2021			
4/12/2021		<0.0005	<0.0005
9/21/2021		<0.0005	<0.0005
9/22/2021			
9/27/2021	<0.0005		
9/28/2021			
9/29/2021			
4/19/2022		<0.0005	<0.0005
4/26/2022	<0.0005		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.0005	<0.0005
8/30/2022			
8/31/2022			
9/6/2022	<0.0005		
9/7/2022			
1/24/2023	<0.0005		
1/25/2023			
1/31/2023			
2/1/2023		<0.0005	
2/7/2023			<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.0005	
3/30/2016	0.000278 (J)				<0.0005	<0.0005	<0.0005		
4/4/2016									<0.0005
5/17/2016	<0.0005								
5/19/2016					<0.0005	<0.0005			
5/23/2016					<0.0005			<0.0005	<0.0005
7/11/2016	<0.0005								
7/12/2016								<0.0005	<0.0005
7/13/2016						<0.0005	<0.0005		
7/14/2016					<0.0005				
9/13/2016					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/14/2016	<0.0005								
11/15/2016					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/16/2016	<0.0005								
2/28/2017	<0.0005							<0.0005	<0.0005
3/1/2017					<0.0005	<0.0005	<0.0005		
5/23/2017					<0.0005	<0.0005	<0.0005		
5/24/2017	<0.0005							<0.0005	<0.0005
6/20/2017					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/21/2017	<0.0005								
1/9/2018					<0.0005				
1/10/2018	<0.0005					<0.0005	<0.0005	<0.0005	<0.0005
4/17/2018					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/19/2018	<0.0005								
10/1/2018					<0.0005			<0.0005	<0.0005
10/3/2018	<0.0005								
10/4/2018						<0.0005	<0.0005		
4/1/2019								<0.0005	<0.0005
4/2/2019	<0.0005				<0.0005	<0.0005	<0.0005		
9/17/2019	<0.0005							<0.0005	<0.0005
9/18/2019					<0.0005	<0.0005	<0.0005		
2/17/2020									<0.0005
2/18/2020	<0.0005								
2/25/2020								<0.0005	
2/26/2020					<0.0005	<0.0005	<0.0005		
7/27/2020	<0.0005								
7/28/2020					<0.0005	<0.0005	<0.0005		
7/29/2020								<0.0005	<0.0005
4/5/2021	<0.0005								<0.0005
4/6/2021								<0.0005	
4/7/2021					<0.0005	<0.0005	<0.0005		
4/12/2021		<0.0005	<0.0005						
4/13/2021				<0.0005					
9/21/2021		<0.0005	<0.0005	<0.0005				<0.0005	<0.0005
9/27/2021	<0.0005				<0.0005	<0.0005	<0.0005		
4/19/2022		<0.0005	<0.0005	<0.0005					
5/2/2022	<0.0005							<0.0005	<0.0005
5/3/2022					<0.0005	<0.0005	<0.0005		
8/29/2022		<0.0005	<0.0005	<0.0005					
8/30/2022	<0.0005				<0.0005	<0.0005	<0.0005		
8/31/2022								<0.0005	<0.0005
1/25/2023							<0.0005	<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.0005	<0.0005	<0.0005					
2/6/2023					<0.0005	<0.0005			
2/7/2023	<0.0005								

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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					<0.01	0.0126			
3/29/2016							0.288		2.19
3/30/2016	<0.01	<0.01	<0.01	<0.01					
5/17/2016	<0.01				<0.01		0.269		2.24
5/18/2016		<0.01	<0.01	<0.01					
5/19/2016						0.0142			
7/11/2016					0.00361 (J)	0.0542			
7/13/2016	<0.01	<0.01	<0.01						
7/14/2016				<0.01			0.305		2.1
7/18/2016									
8/22/2016						0.0577			
9/12/2016			<0.01	<0.01					
9/13/2016	<0.01	<0.01			<0.01		0.306		2.3
9/14/2016						0.0627			
11/14/2016		<0.01	<0.01	<0.01			0.305		
11/15/2016	<0.01				<0.01	0.0712			
11/16/2016									1.92
1/3/2017						0.0788			
2/27/2017					<0.01	0.121			
2/28/2017	<0.01	<0.01	<0.01	<0.01			0.368		2.6
5/22/2017	<0.01	<0.01				0.117			
5/24/2017			<0.01	<0.01	<0.01		0.275		1.77
6/19/2017	<0.01	<0.01					0.26		1.9
6/20/2017						0.121			
6/21/2017			<0.01	<0.01	<0.01				
1/9/2018		<0.01	<0.01	<0.01	<0.01	0.138	0.316		2.14
1/10/2018	<0.01								
4/16/2018	<0.01	<0.01	<0.01						
4/19/2018				<0.01	<0.01	0.141	0.275		1.87
10/1/2018							0.267		1.95
10/2/2018	<0.01								
10/4/2018		<0.01	<0.01						
10/5/2018				<0.01	<0.01	0.214			
12/17/2018									
2/25/2019								0.667	
2/27/2019									
4/3/2019	<0.01	<0.01	<0.01	<0.01	<0.01	0.433	0.311		2.33
5/7/2019						0.292			
9/16/2019	<0.01	<0.01	<0.01				0.32	0.625	
9/17/2019				<0.01	<0.01				2.33
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	0.343	0.629	
2/26/2020									2.83
7/22/2020	<0.01	<0.01							
7/23/2020					<0.01				
7/27/2020			<0.01	<0.01					
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 4/19/2023 6:56 PM View: Constituents View
 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						
8/30/2022							0.529	0.686	2.84
8/31/2022	0.000158 (J)					0.138			
9/6/2022		0.000269	0.000272		0.000701				
9/7/2022				0.000315					
1/24/2023						0.143		0.74	
1/25/2023		0.000291							
1/30/2023							0.556		3.06
1/31/2023					0.000984				
2/1/2023				0.000341					
2/6/2023	0.000249		0.000316						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			0.069
8/31/2022	1.13	2.12	
9/6/2022			
9/7/2022			
1/24/2023	1.15		0.071
1/25/2023		2.15	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<0.01	0.657						
7/11/2016		<0.01							
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		<0.01	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		<0.01				0.00593 (J)	0.0627		
5/22/2017	0.0122								
5/23/2017		<0.01				0.00491 (J)	0.0684		
5/24/2017			0.623						
6/19/2017		<0.01	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	<0.01				0.0126			
4/17/2018						0.00623 (J)	0.0638		
4/19/2018	0.0111	<0.01	0.689						
10/1/2018			0.775						
10/2/2018	0.0113								
10/3/2018		<0.01							
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	<0.01							
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	<0.01	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 4/19/2023 6:56 PM View: Constituents View
 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	<0.01		
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	<0.01	0.0187	
2/18/2020			
2/19/2020	<0.01		
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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	0.00295		
8/30/2022			
8/31/2022			0.494
9/6/2022		0.00591	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.475
1/31/2023			
2/6/2023		0.00424	
2/7/2023	0.00254		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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)							
5/17/2016		0.00651 (J)							
7/11/2016		0.00691 (J)							
9/14/2016		0.0074 (J)							
11/16/2016		0.00663 (J)							
3/1/2017		0.00856 (J)							
5/23/2017		0.00689 (J)							
6/19/2017		0.00687 (J)							
1/10/2018		0.00806 (J)							
4/19/2018		0.00659 (J)							
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)							
9/26/2019	0.936								
10/22/2019			0.00346 (J)						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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		
4/19/2022									
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							
8/29/2022									
8/30/2022		0.00435							
8/31/2022	1.08		0.00223	0.0382					
9/6/2022				0.026	0.00837				0.0437
9/7/2022						0.302	0.0116		
1/24/2023	1.08		0.0292						
1/25/2023						0.0228			0.0446
1/31/2023			0.00237			0.327			
2/1/2023									
2/7/2023		0.00393		0.145			0.0117		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.208		
7/20/2020	0.213		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.227		
4/5/2021			
4/6/2021			
4/12/2021		0.000402	0.00167
9/21/2021		0.00017 (J)	0.00088
9/22/2021			
9/27/2021	0.221		
9/28/2021			
9/29/2021			
4/19/2022		0.0002 (J)	0.00074
4/26/2022	0.176		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.00013 (J)	0.000816
8/30/2022			
8/31/2022			
9/6/2022	0.156		
9/7/2022			
1/24/2023	0.136		
1/25/2023			
1/31/2023			
2/1/2023		0.000151 (J)	
2/7/2023			0.000954

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.0042 (J)	
3/30/2016	<0.01			0.205		0.0186	<0.01		
4/4/2016									0.00344 (J)
5/17/2016	<0.01								
5/19/2016						0.0188	<0.01		
5/23/2016				0.257				0.00283 (J)	0.00306 (J)
7/11/2016	<0.01								
7/12/2016								<0.01	<0.01
7/13/2016						0.017	<0.01		
7/14/2016				0.273					
9/13/2016				0.313		0.00943 (J)	<0.01	<0.01	<0.01
9/14/2016	<0.01								
11/15/2016				0.314		0.00741 (J)	<0.01	<0.01	<0.01
11/16/2016	<0.01								
2/28/2017	<0.01							<0.01	<0.01
3/1/2017				0.344		0.0146	<0.01		
5/23/2017				0.287		0.00996 (J)	<0.01		
5/24/2017	<0.01							<0.01	0.00364 (J)
6/20/2017				0.265		0.0148	<0.01	<0.01	0.00282 (J)
6/21/2017	<0.01								
1/9/2018				0.352					
1/10/2018	<0.01					0.0122	<0.01	<0.01	<0.01
4/17/2018				0.135		0.0146	<0.01	<0.01	<0.01
4/19/2018	<0.01								
10/1/2018				0.294				<0.01	<0.01
10/3/2018	<0.01								
10/4/2018						0.0101	<0.01		
4/1/2019								<0.01	<0.01
4/2/2019	<0.01			0.164		0.0166	<0.01		
9/17/2019	<0.01							<0.01	<0.01
9/18/2019				0.261		0.0138	<0.01		
2/17/2020									<0.01
2/18/2020	<0.01								
2/25/2020								<0.01	
2/26/2020				0.0546		0.0157	<0.01		
7/27/2020	<0.01								
7/28/2020				0.215		0.0185	<0.01		
7/29/2020								<0.01	<0.01
4/5/2021	0.000137 (J)								0.000821
4/6/2021								0.000895	
4/7/2021				0.0562		0.0119	0.00021		
4/12/2021		0.000473	<0.0002						
4/13/2021					0.000176 (J)				
9/21/2021		0.00019 (J)	<0.0002		0.00015 (J)			0.00072	0.00102
9/27/2021	0.00026				0.0541	0.0118	0.00026		
4/19/2022		0.00012 (J)	<0.0002		0.00013 (J)				
5/2/2022	0.0003							0.00107	0.0012
5/3/2022					0.0389	0.00912	0.00024		
8/29/2022		<0.0002	<0.0002	0.000169 (J)					
8/30/2022	0.000242				0.0384	0.00761	0.000281		
8/31/2022								0.000733	0.00128
1/25/2023							0.000484	0.000577	0.00114

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.0002	<0.0002	<0.0002					
2/6/2023					0.0299	0.00638			
2/7/2023	0.000994								

Time Series

Constituent: pH (pH) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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						
8/30/2022							7.84	8.94	9.18
8/31/2022	7.25					7.6			
9/6/2022		7.67	7.39		7.35				
9/7/2022				7.52					
1/24/2023						7.6		8.47	
1/25/2023		7.81							
1/30/2023							8.04		9.27
1/31/2023					7.62				
2/1/2023				7.55					
2/6/2023	7.6		7.45						

Time Series

Constituent: pH (pH) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			6.65
8/31/2022	7.66	8.27	
9/6/2022			
9/7/2022			
1/24/2023	7.55		6.84
1/25/2023		8.35	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: pH (pH) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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 4/19/2023 6:56 PM View: Constituents View
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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	7.27		
8/30/2022			
8/31/2022			8.17
9/6/2022		6.99	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			8.28
1/31/2023			
2/6/2023		6.79	
2/7/2023	7.58		

Time Series

Constituent: pH (pH) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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							
5/17/2016		7.79							
7/11/2016		7.96							
9/14/2016		7.79							
11/16/2016		7.72							
3/1/2017		7.68							
5/23/2017		7.69							
6/19/2017		7.67							
8/15/2017		7.73							
1/10/2018		7.84							
4/19/2018		7.69							
10/3/2018		7.7							
2/26/2019	8.61								
4/2/2019		7.8							
9/17/2019		7.8							
9/26/2019	8.47								
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		9.22 (o)							
8/31/2022	8.32		7.17	7.76					
9/6/2022					7.83	7.65			7.96
9/7/2022							7.45	7.96	
1/24/2023	8.25			7.8					
1/25/2023						7.72			8.12
1/31/2023			7.14				7.85		
2/1/2023									
2/7/2023		7.79			7.42			8.17	

Time Series

Constituent: pH (pH) Analysis Run 4/19/2023 6:56 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	7.94		
7/20/2020	7.8		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	8.04		
4/5/2021			
4/6/2021			
4/12/2021		7.99	7.09
9/21/2021		7.85	7.3
9/22/2021			
9/27/2021	7.88		
9/28/2021			
9/29/2021			
4/19/2022		7.91	6.85
4/26/2022	7.9		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		8.09	7.09
8/30/2022			
8/31/2022			
9/6/2022	7.96		
9/7/2022			
1/24/2023	7.99		
1/25/2023			
1/31/2023			
2/1/2023		8.18	
2/7/2023			7.58

Time Series

Constituent: pH (pH) Analysis Run 4/19/2023 6:56 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								7.2	
3/30/2016	7.31				7.61	7.95	7.45		
4/4/2016									7.32
5/17/2016	7.35								
5/19/2016						7.88	7.5		
5/23/2016					7.68			7.39	7.66
7/11/2016	7.43								
7/12/2016								7.43	7.77
7/13/2016						8.07	7.58		
7/14/2016					7.79				
9/13/2016					7.69	8.04	7.53	7.38	7.7
9/14/2016	7.26								
11/15/2016					7.72	7.93	7.48	7.35	7.69
11/16/2016	7.19								
2/28/2017	7.23							7.3	7.66
3/1/2017					7.55	7.89	7.46		
5/23/2017					7.64	7.96	7.51		
5/24/2017	7.26							7.33	7.64
6/20/2017					7.5	7.87	7.52	7.33	7.62
6/21/2017	7.26								
8/15/2017	7.29				7.46	7.86	7.43	7.31	
8/16/2017									7.51
1/9/2018					7.71				
1/10/2018	7.17					7.98	7.57	7.36	7.72
4/17/2018					7.29	7.82	7.5	7.28	7.57
4/19/2018	7.27								
10/1/2018					7.68			7.33	7.59
10/3/2018	7.09								
10/4/2018						7.87	7.49		
4/1/2019								7.4	7.64
4/2/2019	7.34				7.47	7.73	7.24		
9/17/2019	7.65							7.55	8.07
9/18/2019					7.53	7.85	7.52		
2/17/2020									7.75
2/18/2020	7.34								
2/25/2020								7.39	
2/26/2020					7.47	7.8	7.51		
7/27/2020	7.3								
7/28/2020					7.7	7.62	7.32		
7/29/2020								7.39	7.66
4/5/2021	7.33								7.8
4/6/2021								7.23	
4/7/2021					7.47	7.02	7.51		
4/12/2021		7.77	7.18						
4/13/2021				6.14					
9/21/2021		7.12	7.3	6.07				7.3	7.72
9/27/2021	7.37				7.55	7.92	7.74		
4/19/2022		7.68	6.8	6.31					
5/2/2022	6.68							7.44	7.7
5/3/2022					7.01	7.63	7.53		
8/29/2022		7.73	7.57	5.87					
8/30/2022	6.85				7.47	7.6	7.57		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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		<0.001015
3/30/2016	<0.00102	<0.00102	<0.00102	<0.00102					
5/17/2016	<0.00102				<0.00102		<0.00102		<0.001015
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		<0.001015
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		<0.001015
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									<0.001015
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		<0.001015
5/22/2017	<0.00102	<0.00102				<0.00102			
5/24/2017			<0.00102	<0.00102	<0.00102		<0.00102		<0.001015
6/19/2017	<0.00102	<0.00102					<0.00102		<0.001015
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		<0.001015
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		<0.001015
10/1/2018							<0.00102		<0.001015
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		<0.001015
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				<0.001015
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									<0.001015
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									<0.001015
4/5/2021	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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			<0.001015
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									<0.001015
4/20/2022									<0.001015
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						
8/30/2022							<0.00102	<0.00102	<0.001015
8/31/2022	0.000532 (J)					<0.00102			
9/6/2022		<0.00102	<0.00102		<0.00102				
9/7/2022				<0.00102					
1/24/2023						<0.00102		<0.00102	
1/25/2023		<0.00102							
1/30/2023							<0.00102		0.00059 (J)
1/31/2023					<0.00102				
2/1/2023				<0.00102					
2/6/2023	<0.00102		<0.00102						

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/30/2022			<0.00102
8/31/2022	<0.00102	<0.00102	
9/6/2022			
9/7/2022			
1/24/2023	<0.00102		<0.00102
1/25/2023		<0.00102	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View

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	<0.01							
3/29/2016			<0.00102						
5/18/2016	<0.00102	<0.01	<0.00102						
7/11/2016		<0.01							
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		<0.01	<0.00102						
11/14/2016			<0.00102						
11/15/2016						<0.00102	<0.00102		
11/16/2016	<0.00102	<0.01							
1/3/2017						<0.00102	<0.00102		
2/27/2017	<0.00102								
2/28/2017			<0.00102						
3/1/2017		<0.01				<0.00102	<0.00102		
5/22/2017	<0.00102								
5/23/2017		<0.01				<0.00102	<0.00102		
5/24/2017			<0.00102						
6/19/2017		<0.01	<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	<0.01				<0.00102			
4/17/2018						<0.00102	<0.00102		
4/19/2018	<0.00102	<0.01	<0.00102						
10/1/2018			<0.00102						
10/2/2018	<0.00102								
10/3/2018		<0.01							
10/4/2018						<0.00102	<0.00102		
12/5/2018								<0.001015	<0.001015
12/6/2018									
12/13/2018				<0.00102					
2/26/2019									
2/27/2019					<0.00102				
4/1/2019	<0.00102	<0.01							
4/2/2019						<0.00102	<0.00102		
4/3/2019			<0.00102						
9/16/2019									
9/17/2019									<0.001015
9/18/2019	<0.00102	<0.01	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.001015	
2/18/2020	<0.00102								
2/19/2020								<0.001015	<0.001015
2/25/2020			<0.00102	<0.00102	<0.00102				
2/26/2020						<0.00102	<0.00102		
7/21/2020								<0.001015	<0.001015
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								<0.001015	<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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								<0.001015	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				<0.001015	<0.001015
4/27/2022									
5/2/2022									
5/3/2022						<0.00102	<0.00102		
8/29/2022					<0.00102				
8/30/2022	<0.00102		<0.00102	<0.00102		<0.00102	<0.00102		
8/31/2022									
9/6/2022									
9/7/2022								<0.001015	<0.001015
1/24/2023			<0.00102	<0.00102	<0.00102				
1/25/2023	<0.00102								
1/30/2023									
1/31/2023								0.000946 (J)	0.00108
2/6/2023						<0.00102	<0.00102		
2/7/2023									

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:56 PM View: Constituents View
 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 4/19/2023 6:56 PM View: Constituents View
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			
8/29/2022	<0.00102		
8/30/2022			
8/31/2022			<0.00102
9/6/2022		<0.00102	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.00102
1/31/2023			
2/6/2023		<0.00102	
2/7/2023	<0.00102		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

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							
5/17/2016		<0.00102							
7/11/2016		<0.00102							
9/14/2016		<0.00102							
11/16/2016		<0.00102							
3/1/2017		<0.00102							
5/23/2017		<0.00102							
6/19/2017		<0.00102							
1/10/2018		<0.00102							
4/19/2018		<0.00102							
10/3/2018		<0.00102							
2/26/2019	<0.00102								
4/2/2019		<0.00102							
9/17/2019	<0.00102	<0.00102							
9/26/2019	<0.00102								
10/22/2019			<0.00102						
2/19/2020		<0.00102	<0.00102				<0.001015		
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	<0.001015	<0.00102	
7/23/2020			<0.00102						
7/27/2020		<0.00102		<0.00102					
7/29/2020	<0.00102								
3/30/2021					<0.00102	<0.00102	<0.001015	<0.00102	<0.00102
4/5/2021	<0.00102	<0.00102		<0.00102					
4/6/2021			<0.00102						
4/12/2021									
9/21/2021									
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			<0.001015	<0.00102	
4/19/2022									
4/26/2022	<0.00102				<0.00102	<0.00102			<0.00102
4/27/2022				<0.00102			<0.001015	<0.00102	
5/2/2022			<0.00102						
5/3/2022		<0.00102							
8/29/2022									
8/30/2022		<0.00102							
8/31/2022	<0.00102		<0.00102	<0.00102					
9/6/2022					<0.00102	<0.00102			<0.00102
9/7/2022							<0.001015	<0.00102	
1/24/2023	<0.00102			<0.00102					
1/25/2023						<0.00102			<0.00102
1/31/2023			<0.00102				0.000599 (J)		
2/1/2023									
2/7/2023		<0.00102			<0.00102			<0.00102	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.00102		
7/20/2020	<0.00102		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.00102		
4/5/2021			
4/6/2021			
4/12/2021		<0.00102	<0.00102
9/21/2021		<0.00102	<0.00102
9/22/2021			
9/27/2021	<0.00102		
9/28/2021			
9/29/2021			
4/19/2022		<0.00102	<0.00102
4/26/2022	<0.00102		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.00102	<0.00102
8/30/2022			
8/31/2022			
9/6/2022	<0.00102		
9/7/2022			
1/24/2023	<0.00102		
1/25/2023			
1/31/2023			
2/1/2023		<0.00102	
2/7/2023			<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.00102	
3/30/2016	<0.00102				<0.00102	<0.00102	<0.00102		
4/4/2016									<0.00102
5/17/2016	<0.00102								
5/19/2016						<0.00102	<0.00102		
5/23/2016					<0.00102			<0.00102	<0.00102
7/11/2016	<0.00102								
7/12/2016								<0.00102	<0.00102
7/13/2016						<0.00102	<0.00102		
7/14/2016					<0.00102				
9/13/2016					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/14/2016	<0.00102								
11/15/2016					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
11/16/2016	<0.00102								
2/28/2017	<0.00102							<0.00102	<0.00102
3/1/2017					<0.00102	<0.00102	<0.00102		
5/23/2017					<0.00102	<0.00102	<0.00102		
5/24/2017	<0.00102							<0.00102	<0.00102
6/20/2017					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/21/2017	<0.00102								
1/9/2018					<0.00102				
1/10/2018	<0.00102					<0.00102	<0.00102	<0.00102	<0.00102
4/17/2018					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
4/19/2018	<0.00102								
10/1/2018					<0.00102			<0.00102	<0.00102
10/3/2018	<0.00102								
10/4/2018						<0.00102	<0.00102		
4/1/2019								<0.00102	<0.00102
4/2/2019	<0.00102				<0.00102	<0.00102	<0.00102		
9/17/2019	<0.00102							<0.00102	<0.00102
9/18/2019					<0.00102	<0.00102	<0.00102		
2/17/2020									<0.00102
2/18/2020	<0.00102								
2/25/2020								<0.00102	
2/26/2020					<0.00102	<0.00102	<0.00102		
7/27/2020	<0.00102								
7/28/2020					<0.00102	<0.00102	<0.00102		
7/29/2020								<0.00102	<0.00102
4/5/2021	<0.00102								<0.00102
4/6/2021								<0.00102	
4/7/2021					<0.00102	<0.00102	<0.00102		
4/12/2021		<0.00102	<0.00102						
4/13/2021				<0.001015					
9/21/2021		<0.00102	<0.00102	<0.001015				<0.00102	<0.00102
9/27/2021	<0.00102				<0.00102	<0.00102	<0.00102		
4/19/2022		<0.00102	<0.00102	<0.001015					
5/2/2022	<0.00102							<0.00102	<0.00102
5/3/2022					<0.00102	<0.00102	<0.00102		
8/29/2022		<0.00102	<0.00102	<0.001015					
8/30/2022	<0.00102				<0.00102	<0.00102	<0.00102		
8/31/2022								<0.00102	<0.00102
1/25/2023							<0.00102	<0.00102	<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.00102	<0.00102	0.000584 (J)					
2/6/2023					<0.00102	<0.00102			
2/7/2023	<0.00102								

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

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 4/19/2023 6:57 PM View: Constituents View
 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						
8/30/2022							190	157	415
8/31/2022	3.78					225			
9/6/2022		61.900002	104		148				
9/7/2022				0.641 (J)					
1/24/2023						219		146	
1/25/2023		57.799999							
1/30/2023							186		444
1/31/2023					104				
2/1/2023				0.758 (J)					
2/6/2023	3.9		107						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
 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 4/19/2023 6:57 PM View: Constituents View
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			
8/30/2022			203
8/31/2022	307	268	
9/6/2022			
9/7/2022			
1/24/2023	316		212
1/25/2023		265	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

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	<5	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 4/19/2023 6:57 PM View: Constituents View
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 4/19/2023 6:57 PM View: Constituents View
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			
8/29/2022	88.400002		
8/30/2022			
8/31/2022			128
9/6/2022		12	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			134
1/31/2023			
2/6/2023		11.9	
2/7/2023	88.099998		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

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							
5/17/2016		5.12							
7/11/2016		4.63							
9/14/2016		3.19							
11/16/2016		3.71							
3/1/2017		3.4 (J)							
5/23/2017		2 (J)							
6/19/2017		2.5 (J)							
8/15/2017		2.4 (J)							
4/19/2018		1.9 (J)							
10/3/2018		2.7 (J)							
2/26/2019	164								
4/2/2019		3.24							
9/17/2019	161	4.51							
9/26/2019	179								
10/22/2019			23.4						
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					
7/29/2020	163								
3/30/2021					144	17.4	452	39.4	199
4/5/2021	168	3.2		21.7					
4/6/2021			37.8						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		2.73							
8/31/2022	170		25.9	35.299999					
9/6/2022					132	25.9			155
9/7/2022							471	38.599998	
1/24/2023	162			33.5					
1/25/2023						20.9			128
1/31/2023			24.4				416		
2/1/2023									
2/7/2023		2.6			137			38.200001	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	99.9		
7/20/2020	94.9		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	97.3		
4/5/2021			
4/6/2021			
4/12/2021		12.6	14.6
9/21/2021		5.49	14.5
9/22/2021			
9/27/2021	104		
9/28/2021			
9/29/2021			
4/19/2022		2.72	11.4
4/26/2022	91.3		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		3.16	12.4
8/30/2022			
8/31/2022			
9/6/2022	84.699997		
9/7/2022			
1/24/2023	80.199997		
1/25/2023			
1/31/2023			
2/1/2023		1.28 (J)	
2/7/2023			14.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								29.9	
3/30/2016	24.9				146	204	215		
4/4/2016									13.5
5/17/2016	25.1								
5/19/2016						206	204		
5/23/2016					160			26.5	1.78
7/11/2016	33.2								
7/12/2016								24.3	0.915 (J)
7/13/2016						176	155		
7/14/2016					173				
9/13/2016					173	151	89.8	17.8	<1
9/14/2016	35.5								
11/15/2016					177	161	176	10.1	0.96 (J)
11/16/2016	38.5								
2/28/2017	32							5.8	5.5
3/1/2017					160	160	200		
5/23/2017					160	160	200		
5/24/2017	30							11	18
6/20/2017					150	160	180	7.9	13
6/21/2017	25								
8/15/2017	24				170	160	210	5	
8/16/2017									14
4/17/2018					130	160	170	2.9 (J)	14
4/19/2018	25								
10/1/2018					140			<5	11
10/3/2018	37								
10/4/2018						150	200		
4/1/2019								1.8	14.3
4/2/2019	22.4				122	198	186		
9/17/2019	39.8							4.62	13.9
9/18/2019					167	177	199		
2/17/2020									14.7
2/18/2020	21.4								
2/25/2020								3.89	
2/26/2020					39.8	178	207		
7/27/2020	21.7								
7/28/2020					152	189	160		
7/29/2020								3.25	14.7
4/5/2021	15.6								15.1
4/6/2021								3.29	
4/7/2021					38.7	151	164		
4/12/2021		7.23	2.99						
4/13/2021				4.92					
9/21/2021		1.31	1.44	3.27				1.95	18.4
9/27/2021	14.3					33.5	156	143	
4/19/2022		0.934 (J)	1.37 (J)	2.25					
5/2/2022	11.1							3.02	17.9
5/3/2022					34	115	107		
8/29/2022		<2	2.24	2.99					
8/30/2022	12.1				33.299999	123	212		
8/31/2022								1.14 (J)	18.700001
1/25/2023							110	1.96 (J)	18.6

Time Series

Constituent: TDS (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
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						
8/30/2022							425	343	1420
8/31/2022	174					582			
9/6/2022		226	376		462				
9/7/2022				192					
1/24/2023						562		357	
1/25/2023		234							
1/30/2023							528		1540
1/31/2023					436				
2/1/2023				181					
2/6/2023	183		391						

Time Series

Constituent: TDS (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
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 4/19/2023 6:57 PM View: Constituents View
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			
8/30/2022			614
8/31/2022	682	588	
9/6/2022			
9/7/2022			
1/24/2023	897		632
1/25/2023		722	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: TDS (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
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 4/19/2023 6:57 PM View: Constituents View
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			
8/29/2022	349		
8/30/2022			
8/31/2022			298
9/6/2022		150	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			285
1/31/2023			
2/6/2023		143	
2/7/2023	358		

Time Series

Constituent: TDS (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

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							
5/17/2016		140							
7/11/2016		146							
9/14/2016		141							
11/16/2016		157							
3/1/2017		148							
5/23/2017		141							
6/19/2017		126							
8/15/2017		146							
4/19/2018		143							
10/3/2018		148							
2/26/2019	326								
4/2/2019		140							
9/17/2019	331	145							
9/26/2019	327								
10/22/2019			396						
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					
7/29/2020	328								
3/30/2021					483	329	810	252	767
4/5/2021	345	136		319					
4/6/2021			426						
4/12/2021									
9/21/2021									
9/22/2021						354			673
9/27/2021		132			447				
9/28/2021	340								
9/29/2021			415	309			844	275	
4/19/2022									
4/26/2022	359				433	303			596
4/27/2022				272			788	255	
5/2/2022			412						
5/3/2022		141							
8/29/2022									
8/30/2022		151							
8/31/2022	371		411	284					
9/6/2022					398	313			584
9/7/2022							802	256	
1/24/2023	367			271					
1/25/2023						317			556
1/31/2023			380				760		
2/1/2023									
2/7/2023		141			374			275	

Time Series

Constituent: TDS (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	273		
7/20/2020	252		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	262		
4/5/2021			
4/6/2021			
4/12/2021		129	146
9/21/2021		115	139
9/22/2021			
9/27/2021	249		
9/28/2021			
9/29/2021			
4/19/2022		122	144
4/26/2022	250		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		98	136
8/30/2022			
8/31/2022			
9/6/2022	249		
9/7/2022			
1/24/2023	262		
1/25/2023			
1/31/2023			
2/1/2023		104	
2/7/2023			145

Time Series

Constituent: TDS (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								290	
3/30/2016	339			398		430	472		
4/4/2016									182
5/17/2016	269								
5/19/2016						422	458		
5/23/2016				411				312	184
7/11/2016	305								
7/12/2016								292	176
7/13/2016						391	412		
7/14/2016				424					
9/13/2016				426		378	312	276	170
9/14/2016	326								
11/15/2016				412		354	426	262	180
11/16/2016	338								
2/28/2017	303							290	203
3/1/2017				452		389	487		
5/23/2017				448		375	487		
5/24/2017	312							296	199
6/20/2017				437		416	421	273	178
6/21/2017	241								
8/15/2017	281			440		394	490	279	
8/16/2017									205
4/17/2018				454		437	464	250	193
4/19/2018	282								
10/1/2018				449				246	198
10/3/2018	354								
10/4/2018						418	504		
4/1/2019								268	205
4/2/2019	270			390		447	428		
9/17/2019	332							257	207
9/18/2019				434		445	489		
2/17/2020									211
2/18/2020	274								
2/25/2020								252	
2/26/2020				228		455	490		
7/27/2020	284								
7/28/2020				406		485	434		
7/29/2020								253	215
4/5/2021	248								211
4/6/2021								256	
4/7/2021				256		436	436		
4/12/2021		118	126						
4/13/2021				77.3					
9/21/2021		111	148	83.3				256	205
9/27/2021	237				240	415	379		
4/19/2022		107	138	67.3					
5/2/2022	248							237	209
5/3/2022					239	376	329		
8/29/2022		94.699997	133	76					
8/30/2022	240				237	400	319		
8/31/2022								246	210
1/25/2023							345	227	207

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

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							<0.000203		<0.0002
3/30/2016	<0.0002	<0.0002	<0.0002	<0.0002					
5/17/2016	<0.0002				<0.0002		<0.000203		<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			<0.000203		<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		<0.000203		<0.0002
9/14/2016						<0.0002			
11/14/2016		<0.0002	<0.0002	<0.0002			<0.000203		
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			<0.000203		<0.0002
5/22/2017	<0.0002	<0.0002				<0.0002			
5/24/2017			<0.0002	<0.0002	<0.0002		<0.000203		<0.0002
6/19/2017	<0.0002	<0.0002					<0.000203		<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	<0.000203		<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	<0.000203		<0.0002
10/1/2018							<0.000203		<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	<0.000203		<0.0002
5/7/2019						<0.0002			
9/16/2019	<0.0002	<0.0002	<0.0002				<0.000203	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	<0.000203	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	<0.000203	0.000514 (J)	
7/29/2020									<0.0002
4/5/2021	<0.0002	<0.0002	<0.0002				<0.000203	0.000465	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
 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	<0.000203	0.00047	
9/29/2021									<0.0002
4/20/2022									8E-05 (J)
4/26/2022									
4/27/2022					<0.0002		<0.000203	0.0006	
5/2/2022	<0.0002	<0.0002		<0.0002		<0.0002			
5/3/2022			<0.0002						
8/30/2022							<0.000203	0.000625	9.1E-05 (J)
8/31/2022	<0.0002					<0.0002			
9/6/2022		<0.0002	<0.0002		<0.0002				
9/7/2022				<0.0002					
1/24/2023						<0.0002		0.000719	
1/25/2023		<0.0002							
1/30/2023							0.000105 (J)		0.000116 (J)
1/31/2023					<0.0002				
2/1/2023				<0.0002					
2/6/2023	<0.0002		<0.0002						

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
 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	<0.001		
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	<0.001		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 4/19/2023 6:57 PM View: Constituents View
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			
8/30/2022			0.000487
8/31/2022	0.000135 (J)	<0.0002	
9/6/2022			
9/7/2022			
1/24/2023	0.000294		0.000472
1/25/2023		<0.0002	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

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	<0.001							
3/29/2016			<0.0002						
5/18/2016	<0.0002	<0.001	<0.0002						
7/11/2016		<0.001							
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		<0.001	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.0002	<0.0002		
11/16/2016	<0.0002	<0.001							
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	<0.001				<0.0002			
4/17/2018						<0.0002	<0.0002		
4/19/2018	<0.0002	<0.001	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.0002								
10/3/2018		<0.001							
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	<0.001							
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	<0.001	<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 4/19/2023 6:57 PM View: Constituents View
 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		
8/29/2022					<0.0002				
8/30/2022	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002		
8/31/2022									
9/6/2022									
9/7/2022								<0.0002	<0.0002
1/24/2023			<0.0002	<0.0002	<0.0002				
1/25/2023	<0.0002								
1/30/2023									
1/31/2023								<0.0002	<0.0002
2/6/2023						<0.0002	<0.0002		
2/7/2023									

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
 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			<0.001
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.001
9/17/2019			
9/18/2019	<0.0002	<0.0002	
2/18/2020			
2/19/2020	<0.0002		
2/25/2020		<0.0002	<0.001
2/26/2020			
7/21/2020		<0.0002	
7/22/2020	<0.0002		
7/27/2020			
7/28/2020			
7/29/2020			<0.001
4/5/2021			0.000149 (J)
4/6/2021		<0.0002	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
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			
8/29/2022	<0.0002		
8/30/2022			
8/31/2022			0.000102 (J)
9/6/2022		<0.0002	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.000236
1/31/2023			
2/6/2023		<0.0002	
2/7/2023	<0.0002		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

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)							
5/17/2016		<0.001							
7/11/2016		<0.001							
9/14/2016		<0.001							
11/16/2016		<0.001							
3/1/2017		<0.001							
5/23/2017		<0.001							
6/19/2017		<0.001							
1/10/2018		<0.001							
4/19/2018		<0.001							
10/3/2018		<0.001							
2/26/2019	<0.0002								
4/2/2019		<0.001							
9/17/2019	<0.0002	<0.001							
9/26/2019	<0.0002								
10/22/2019			<0.0002						
2/19/2020		<0.001	<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		<0.001		<0.0002					
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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		0.000709							
8/31/2022	<0.0002		<0.0002	<0.0002					
9/6/2022					<0.0002	<0.0002			<0.0002
9/7/2022							<0.0002	<0.0002	
1/24/2023	<0.0002			<0.0002					
1/25/2023						<0.0002			<0.0002
1/31/2023			<0.0002				<0.0002		
2/1/2023									
2/7/2023		0.000482			<0.0002			<0.0002	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.0002		
7/20/2020	<0.0002		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.0002		
4/5/2021			
4/6/2021			
4/12/2021		<0.0002	<0.0002
9/21/2021		<0.0002	<0.0002
9/22/2021			
9/27/2021	<0.0002		
9/28/2021			
9/29/2021			
4/19/2022		<0.0002	<0.0002
4/26/2022	<0.0002		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.0002	<0.0002
8/30/2022			
8/31/2022			
9/6/2022	<0.0002		
9/7/2022			
1/24/2023	<0.0002		
1/25/2023			
1/31/2023			
2/1/2023		<0.0002	
2/7/2023			<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.0002	
3/30/2016	<0.0002				<0.0002	<0.0002	<0.0002		
4/4/2016									<0.0002
5/17/2016	<0.0002								
5/19/2016						<0.0002	<0.0002		
5/23/2016					<0.0002			<0.0002	<0.0002
7/11/2016	<0.0002								
7/12/2016								<0.0002	<0.0002
7/13/2016						<0.0002	<0.0002		
7/14/2016					<0.0002				
9/13/2016					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/14/2016	<0.0002								
11/15/2016					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/16/2016	<0.0002								
2/28/2017	<0.0002							<0.0002	<0.0002
3/1/2017					<0.0002	<0.0002	<0.0002		
5/23/2017					<0.0002	<0.0002	<0.0002		
5/24/2017	<0.0002							<0.0002	<0.0002
6/20/2017					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/21/2017	<0.0002								
1/9/2018					<0.0002				
1/10/2018	<0.0002					<0.0002	<0.0002	<0.0002	<0.0002
4/17/2018					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/19/2018	<0.0002								
10/1/2018					<0.0002			<0.0002	<0.0002
10/3/2018	<0.0002								
10/4/2018						<0.0002	<0.0002		
4/1/2019								<0.0002	<0.0002
4/2/2019	<0.0002				<0.0002	<0.0002	<0.0002		
9/17/2019	<0.0002							<0.0002	<0.0002
9/18/2019					<0.0002	<0.0002	<0.0002		
2/17/2020									<0.0002
2/18/2020	<0.0002								
2/25/2020								<0.0002	
2/26/2020					<0.0002	<0.0002	<0.0002		
7/27/2020	<0.0002								
7/28/2020					<0.0002	<0.0002	<0.0002		
7/29/2020								<0.0002	<0.0002
4/5/2021	<0.0002								<0.0002
4/6/2021								<0.0002	
4/7/2021					<0.0002	<0.0002	<0.0002		
4/12/2021		<0.0002	<0.0002						
4/13/2021				0.00015 (J)					
9/21/2021		<0.0002	<0.0002	<0.000203				<0.0002	<0.0002
9/27/2021	<0.0002				<0.0002	<0.0002	<0.0002		
4/19/2022		<0.0002	<0.0002	9E-05 (J)					
5/2/2022	<0.0002							<0.0002	<0.0002
5/3/2022					<0.0002	<0.0002	<0.0002		
8/29/2022		<0.0002	<0.0002	<0.000203					
8/30/2022	<0.0002				<0.0002	<0.0002	<0.0002		
8/31/2022								<0.0002	<0.0002
1/25/2023							<0.0002	<0.0002	<0.0002

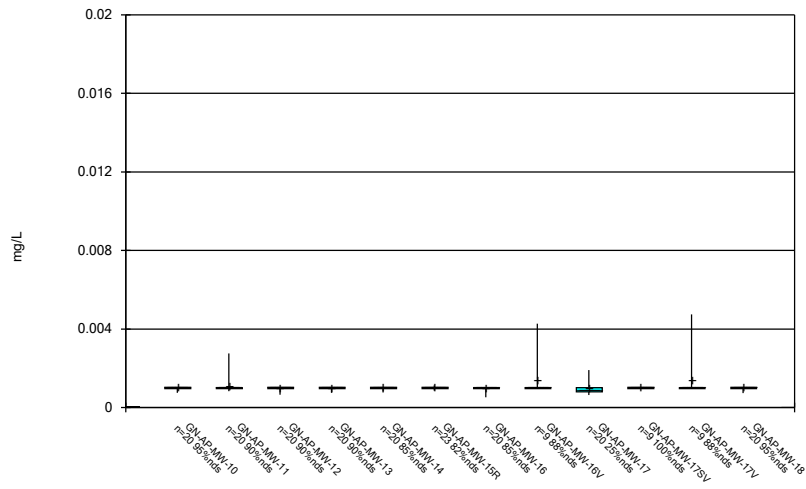
Time Series

Constituent: Thallium (mg/L) Analysis Run 4/19/2023 6:57 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.0002	<0.0002	8.3E-05 (J)					
2/6/2023					<0.0002	<0.0002			
2/7/2023	<0.0002								

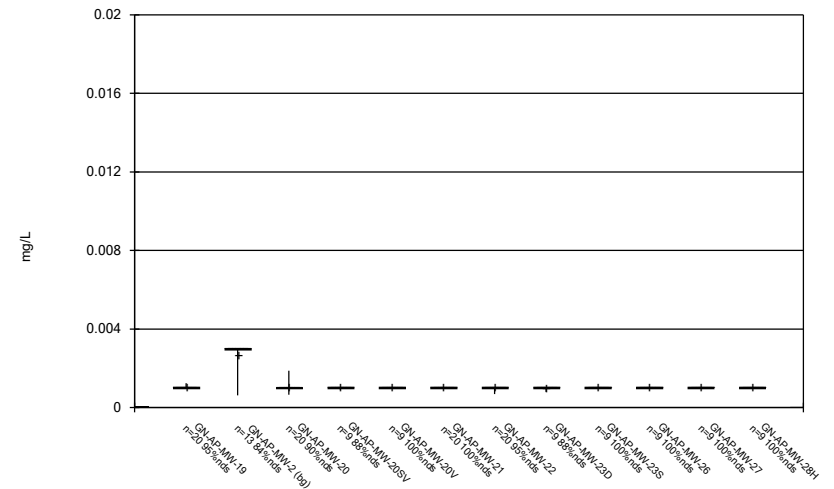
FIGURE B.

Box & Whiskers Plot



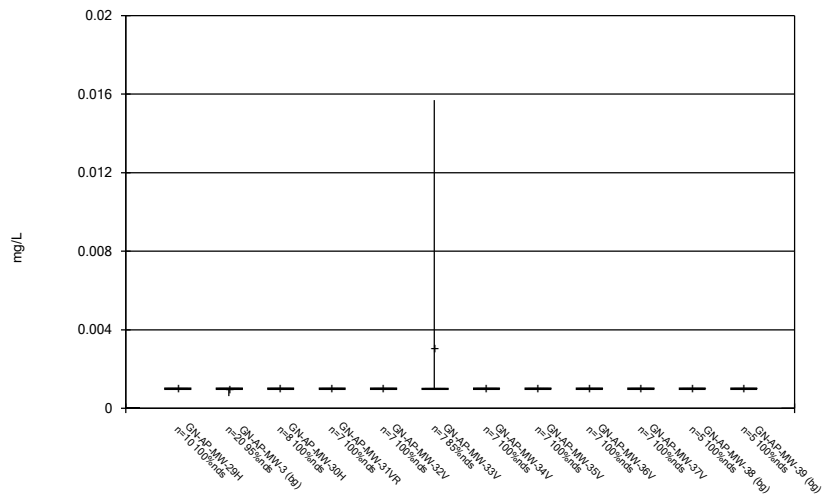
Constituent: Antimony Analysis Run 4/19/2023 6:58 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



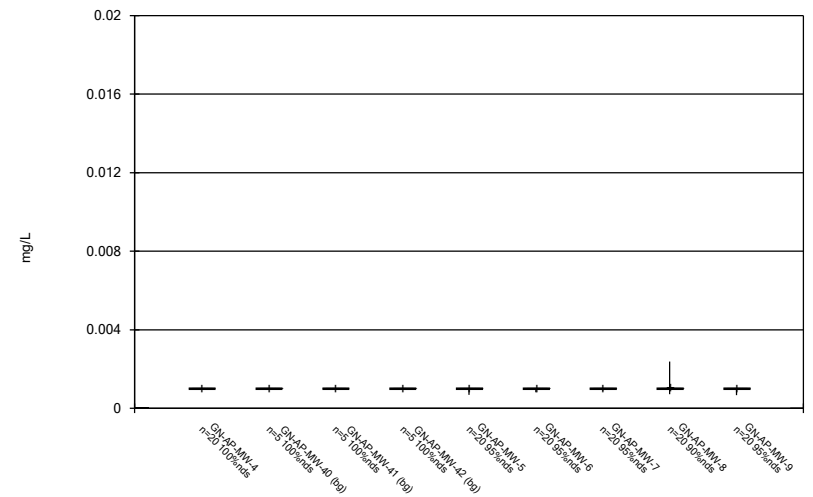
Constituent: Antimony Analysis Run 4/19/2023 6:58 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



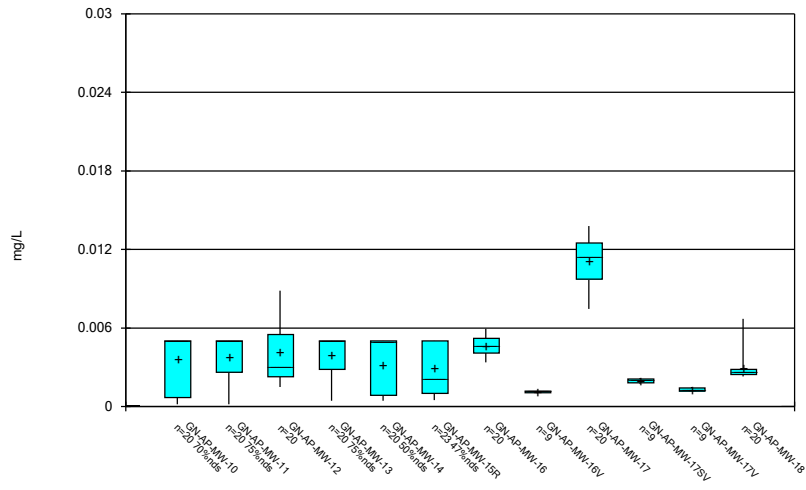
Constituent: Antimony Analysis Run 4/19/2023 6:58 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



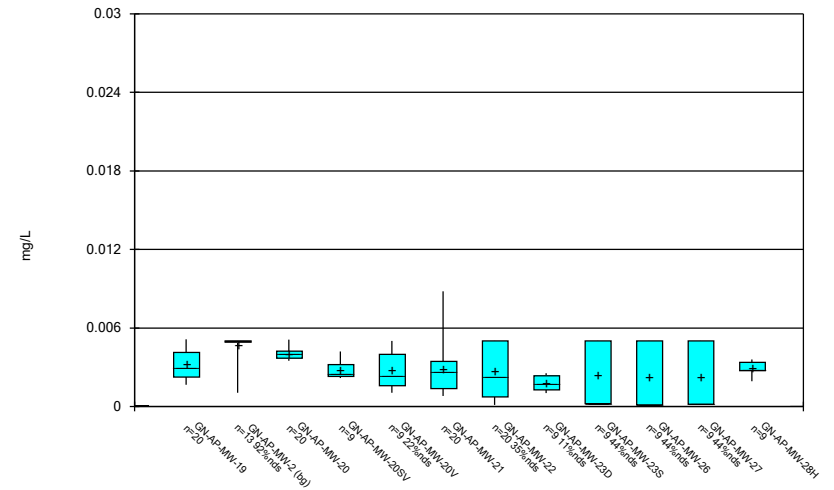
Constituent: Antimony Analysis Run 4/19/2023 6:58 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



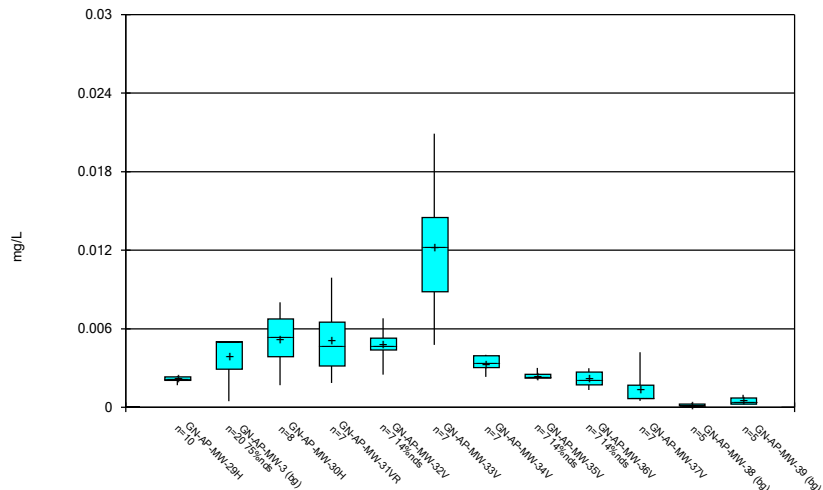
Constituent: Arsenic Analysis Run 4/19/2023 6:58 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



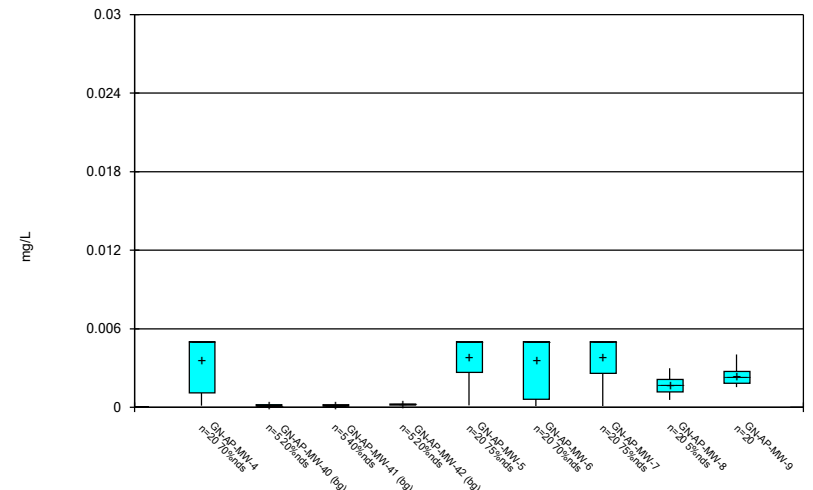
Constituent: Arsenic Analysis Run 4/19/2023 6:58 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



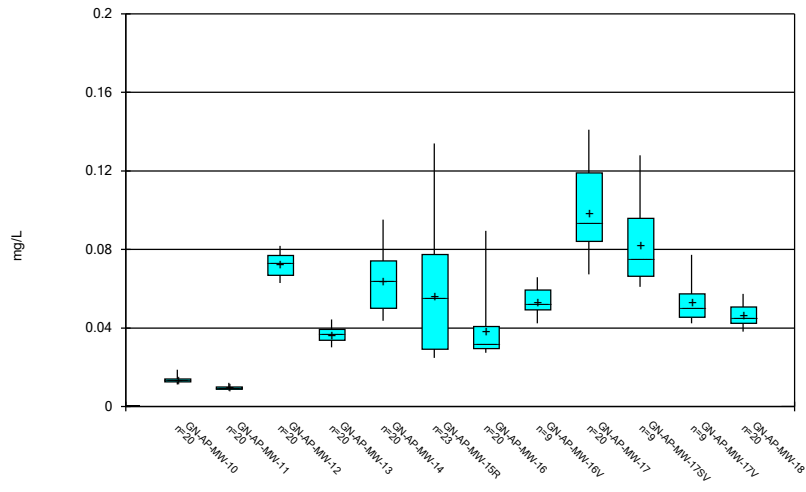
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



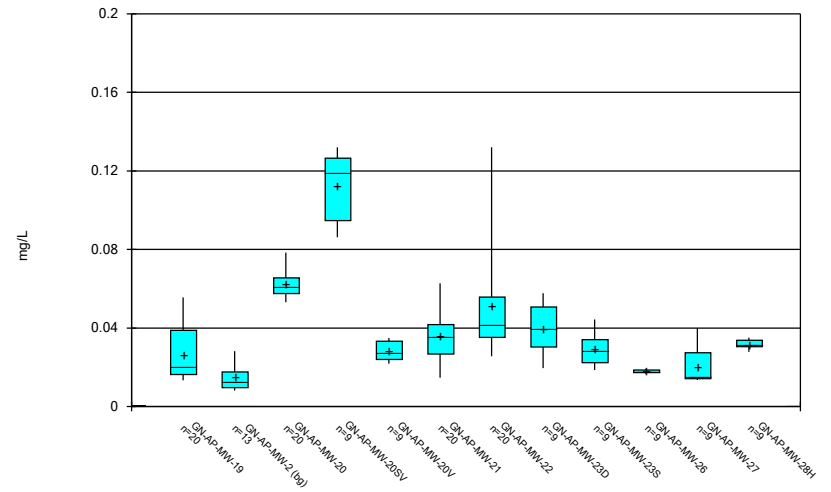
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Box & Whiskers Plot



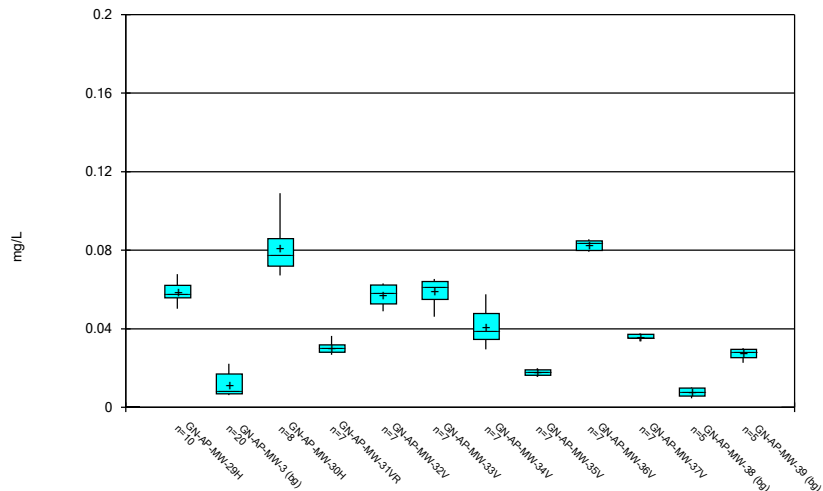
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Box & Whiskers Plot



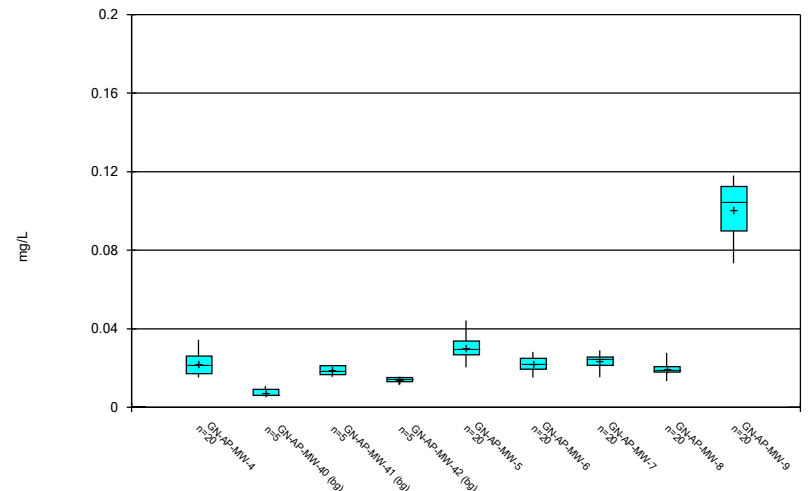
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Box & Whiskers Plot



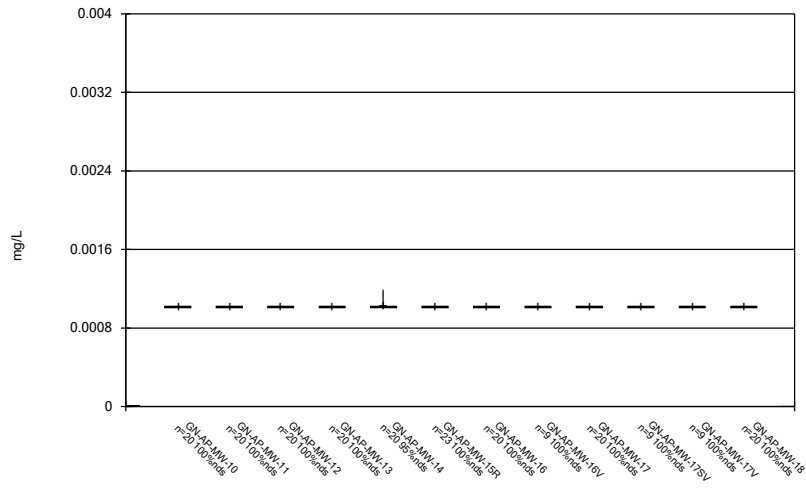
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Box & Whiskers Plot



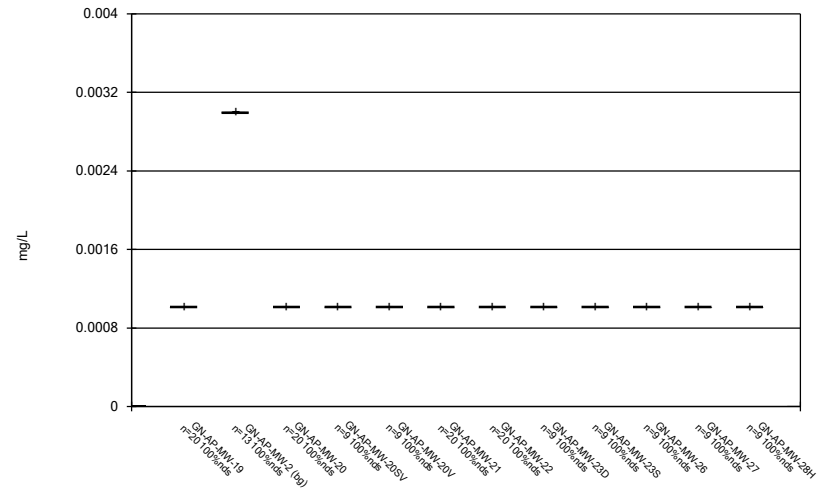
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Box & Whiskers Plot



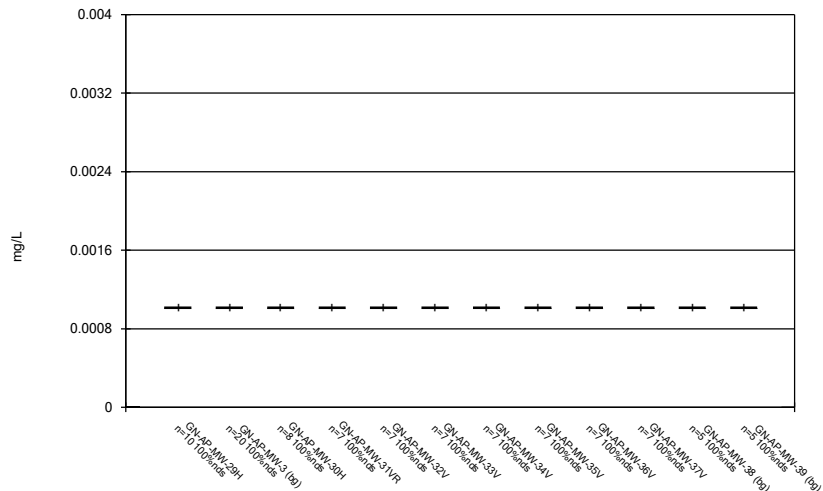
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Box & Whiskers Plot



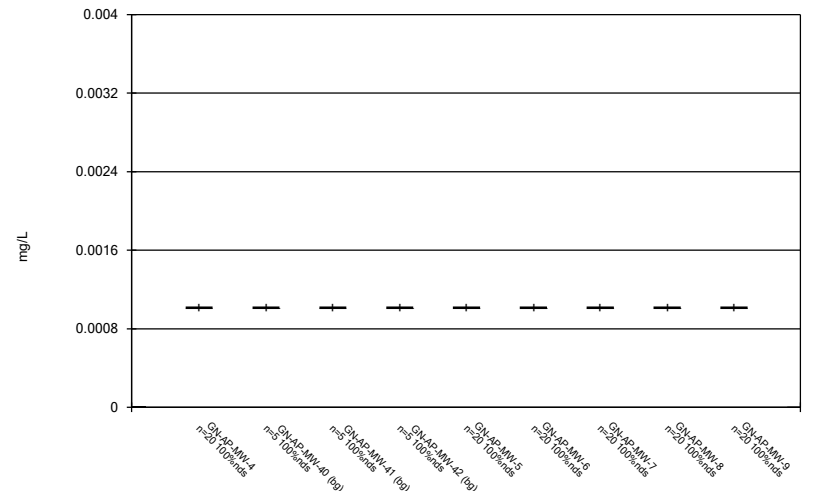
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Box & Whiskers Plot



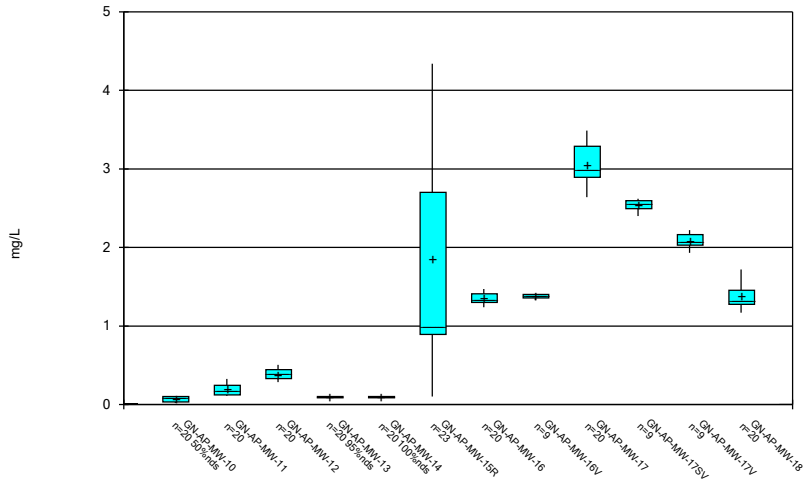
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Box & Whiskers Plot



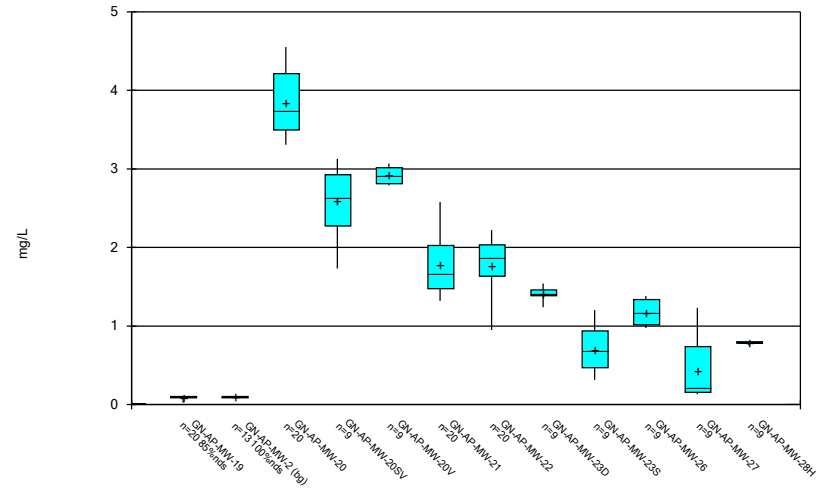
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Box & Whiskers Plot



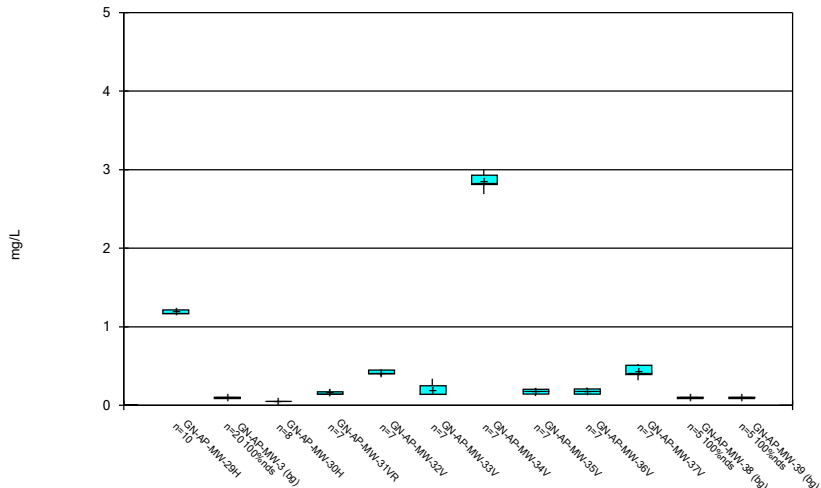
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Box & Whiskers Plot



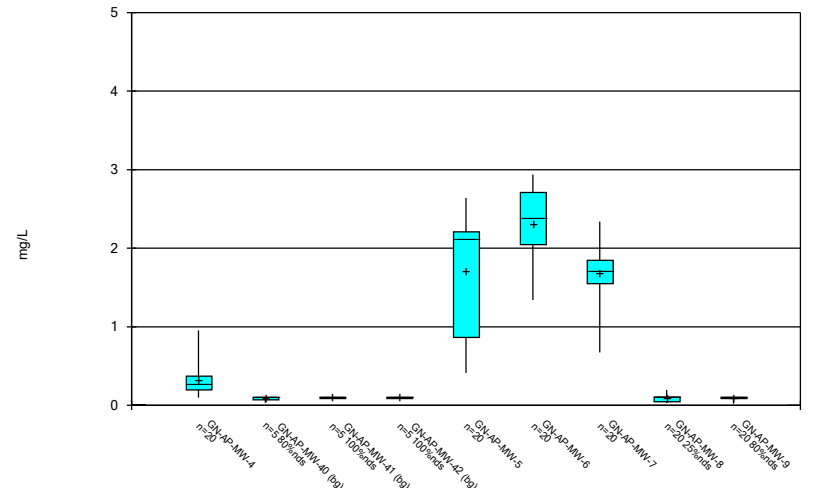
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Box & Whiskers Plot



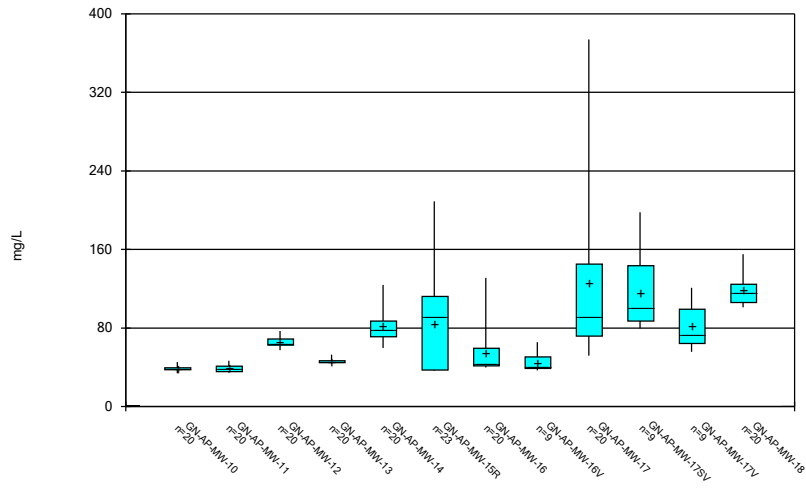
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Box & Whiskers Plot



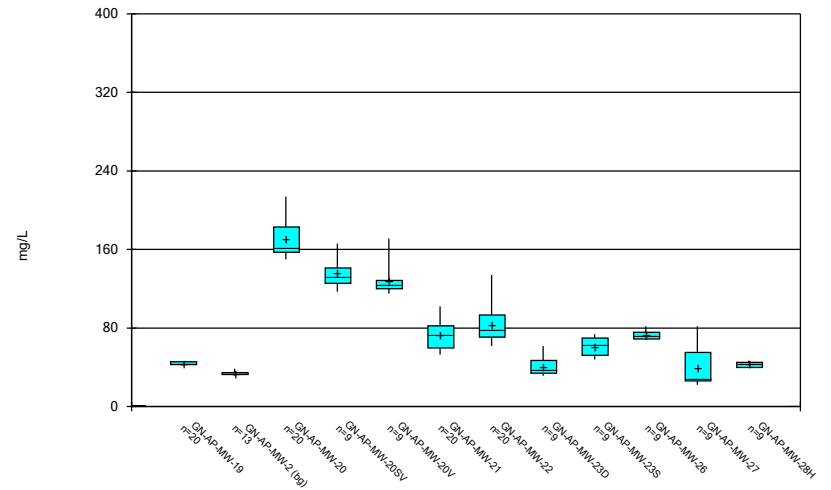
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Box & Whiskers Plot



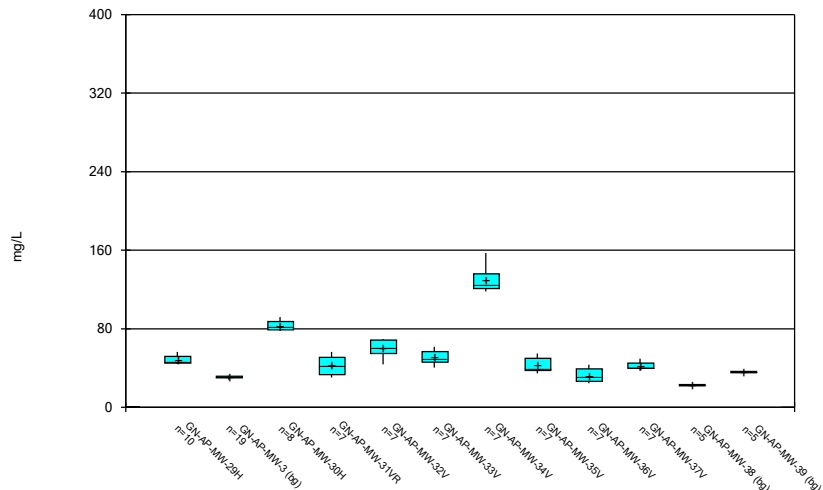
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Box & Whiskers Plot



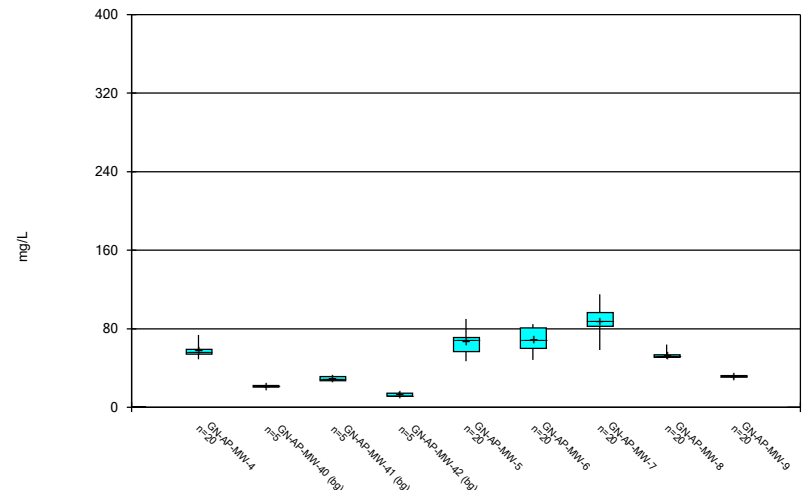
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Box & Whiskers Plot



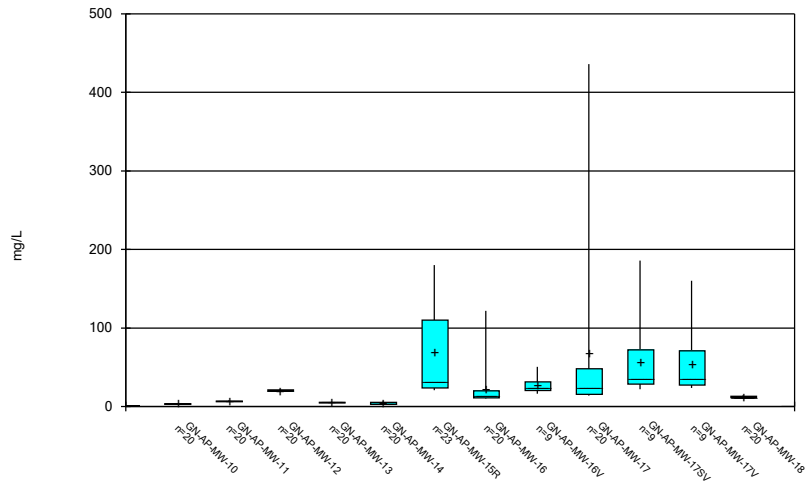
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Box & Whiskers Plot



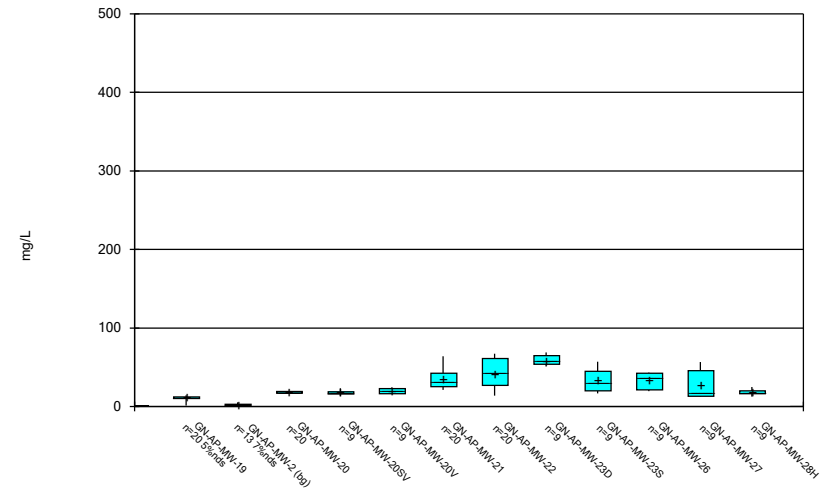
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Box & Whiskers Plot



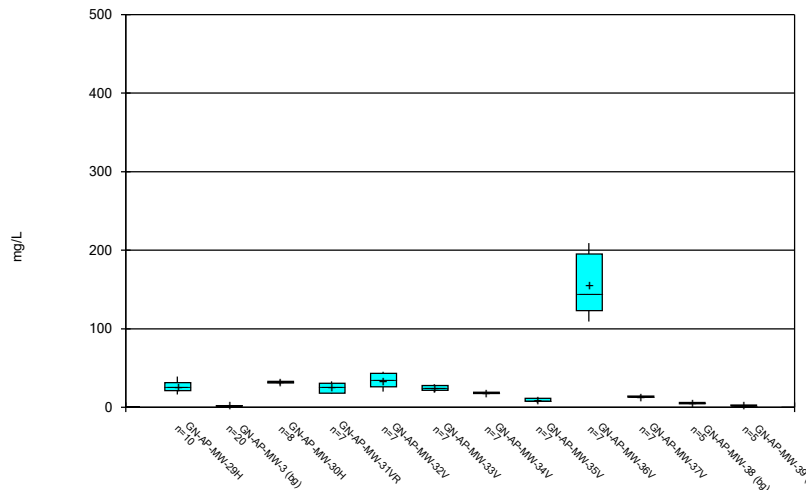
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Box & Whiskers Plot



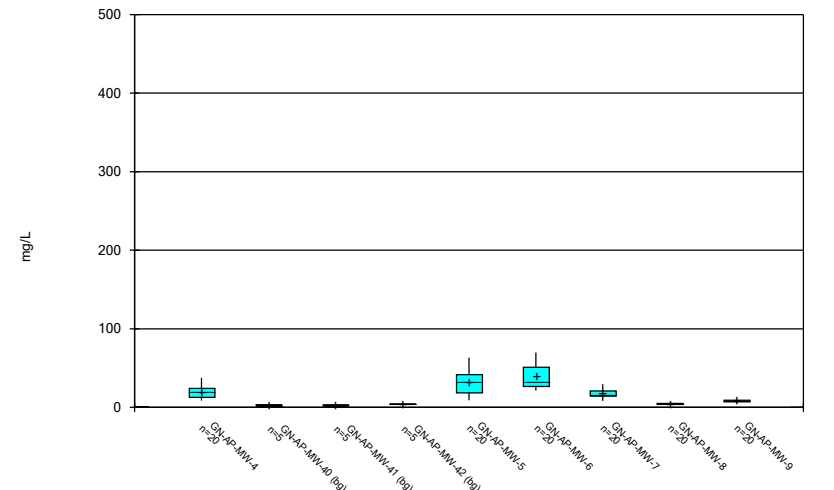
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Box & Whiskers Plot



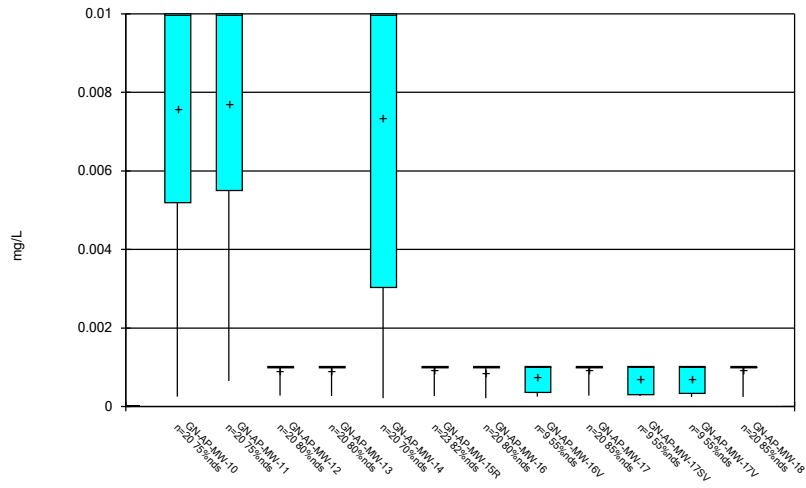
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Box & Whiskers Plot



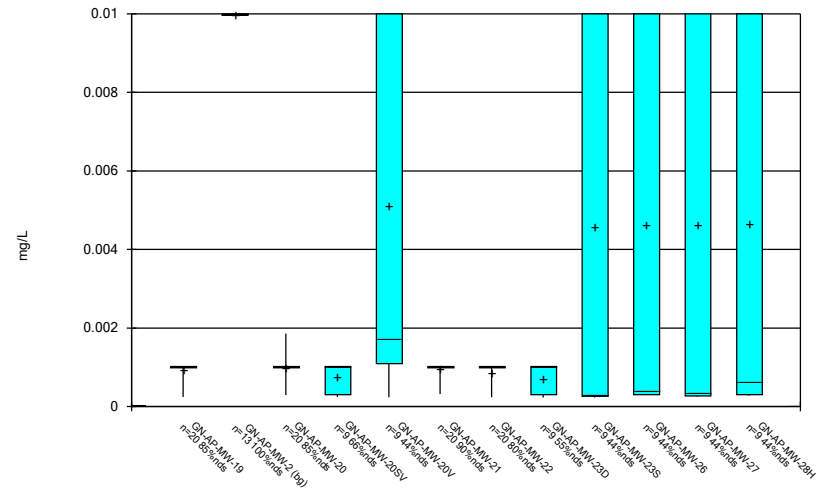
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Box & Whiskers Plot



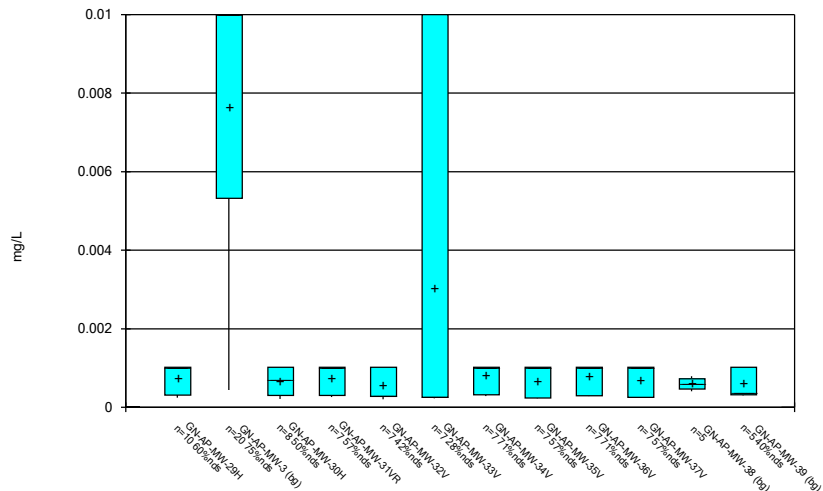
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Box & Whiskers Plot



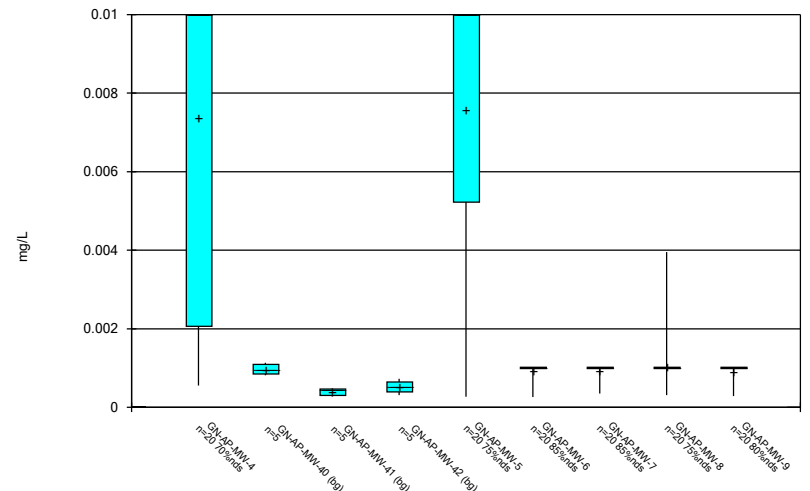
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Box & Whiskers Plot



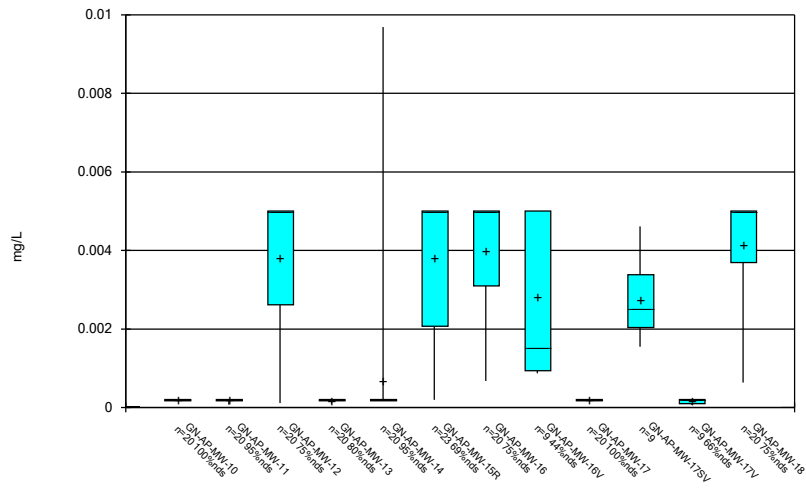
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Box & Whiskers Plot



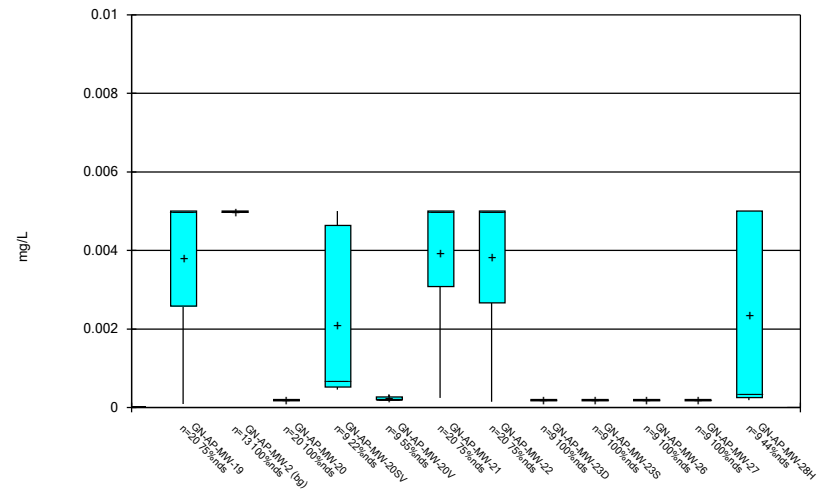
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Box & Whiskers Plot



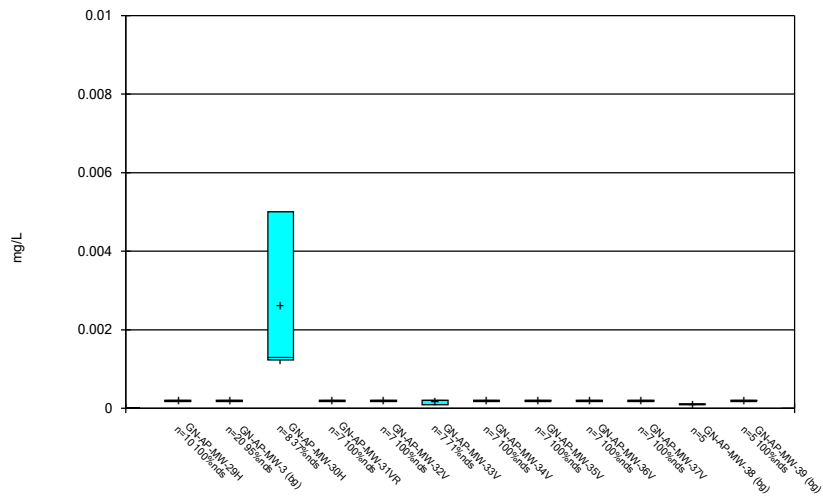
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Box & Whiskers Plot



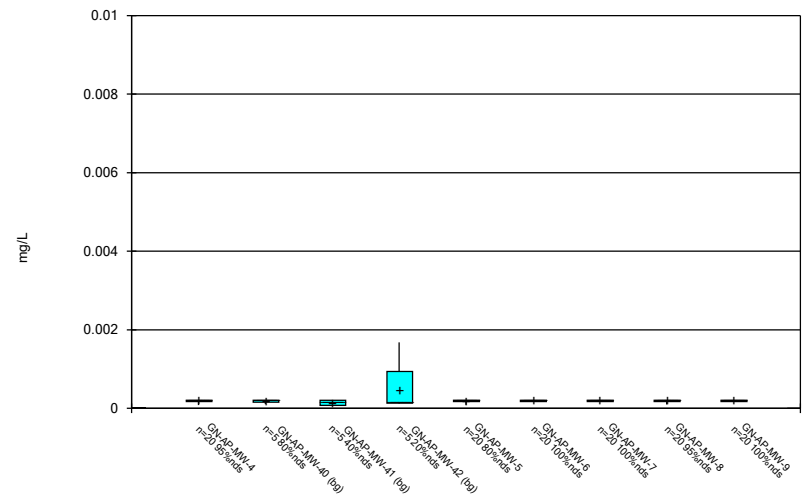
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Box & Whiskers Plot



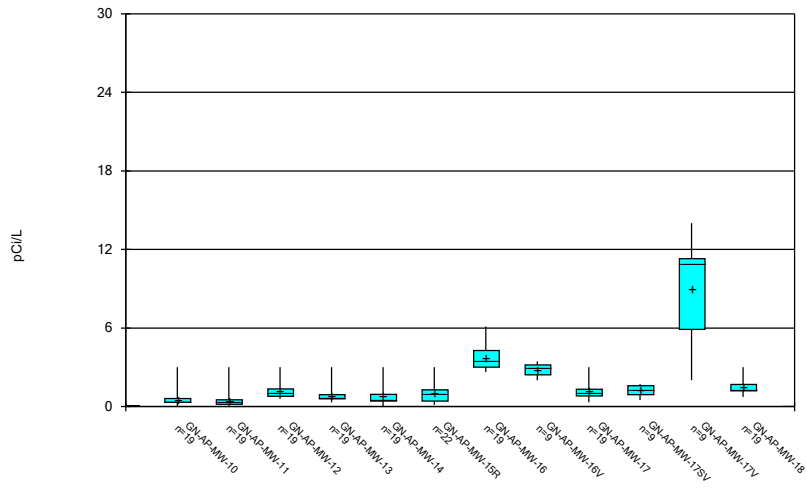
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Box & Whiskers Plot



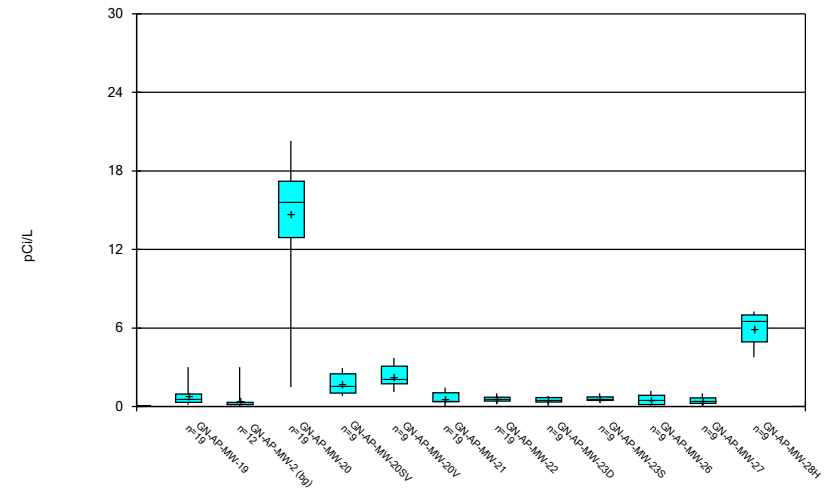
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Box & Whiskers Plot



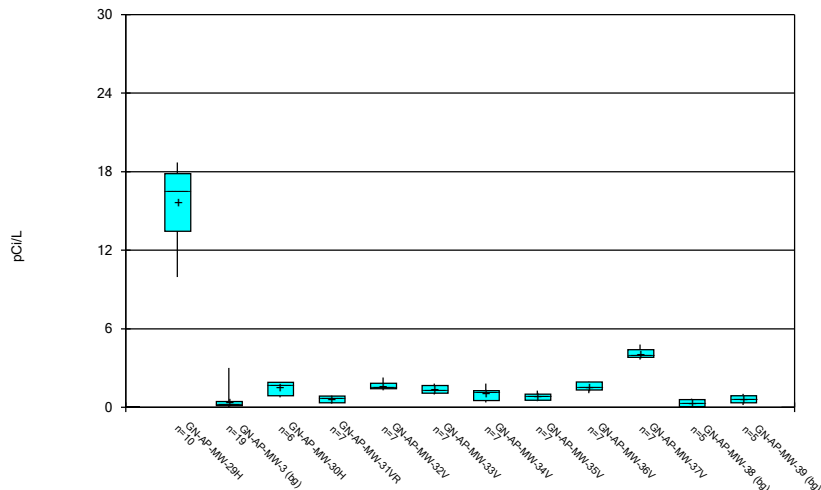
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Box & Whiskers Plot



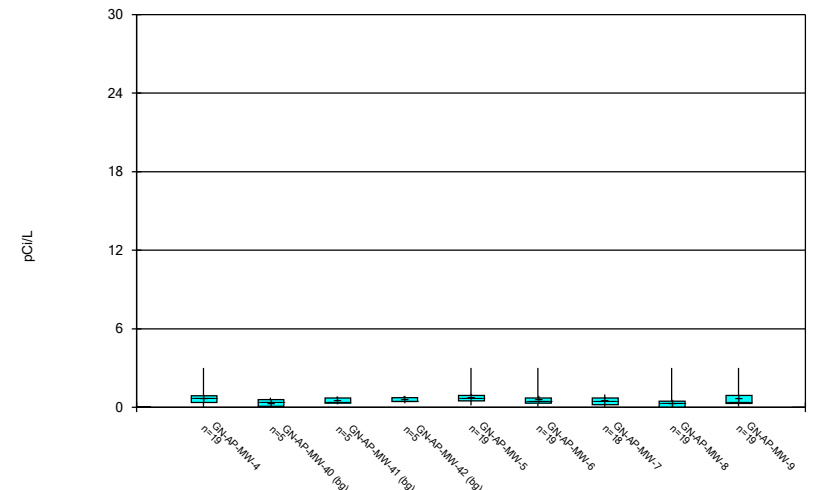
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Box & Whiskers Plot



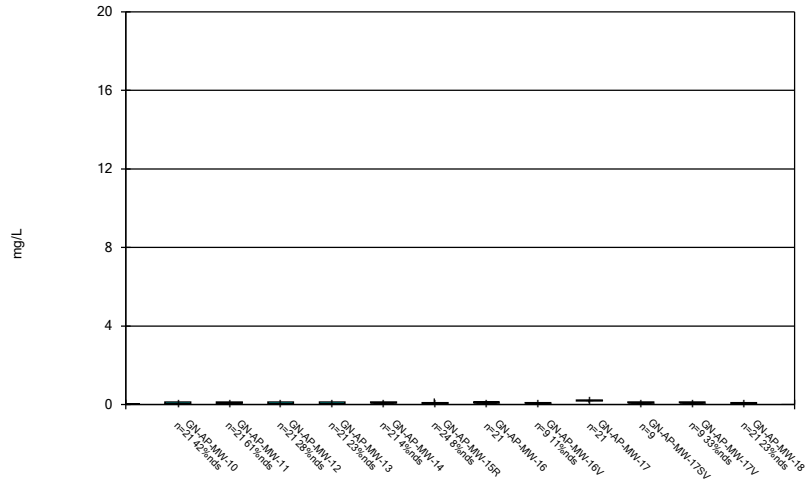
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Box & Whiskers Plot



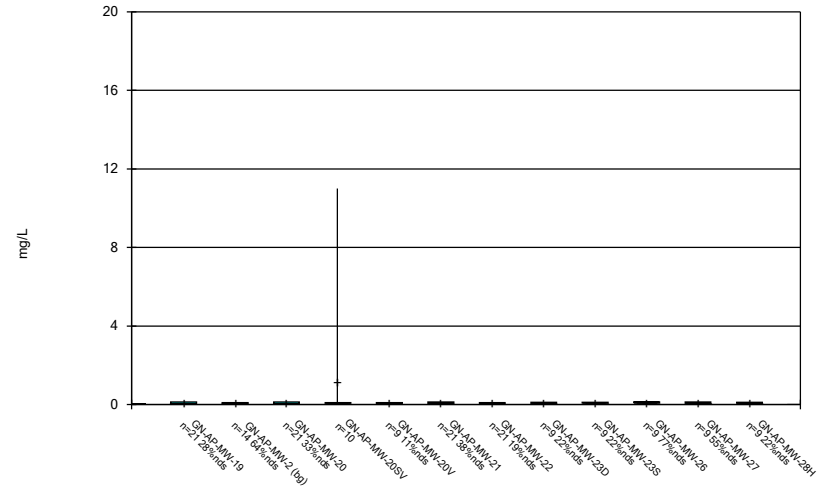
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Box & Whiskers Plot



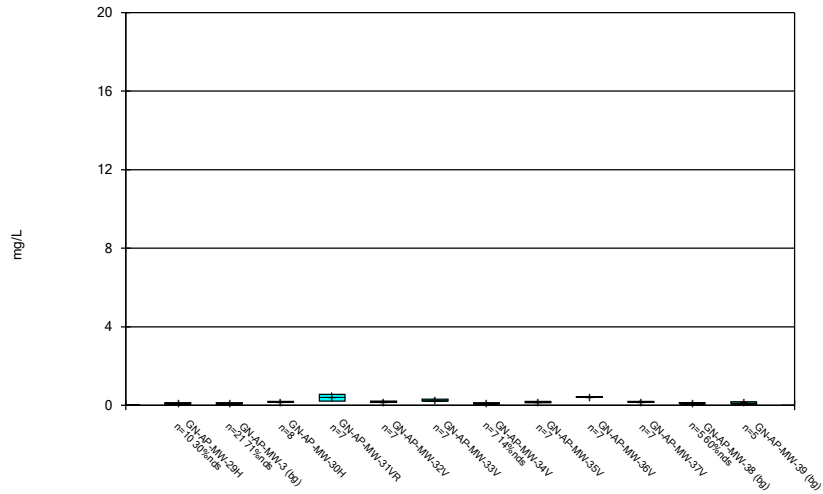
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Box & Whiskers Plot



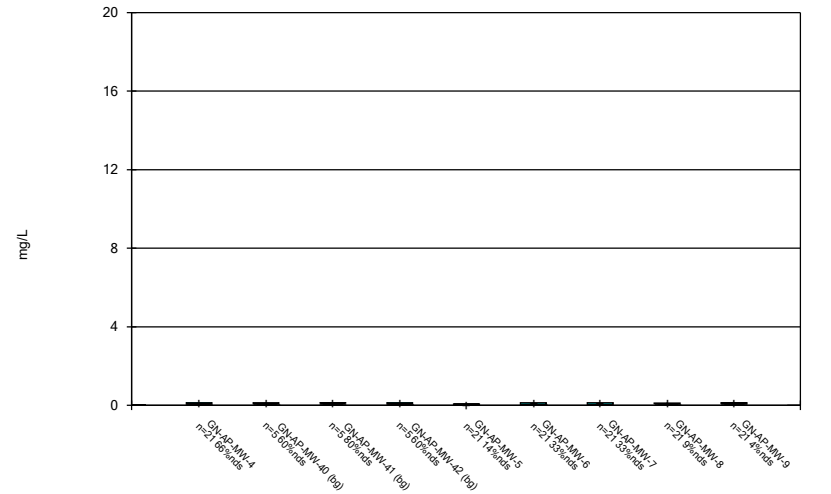
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Box & Whiskers Plot



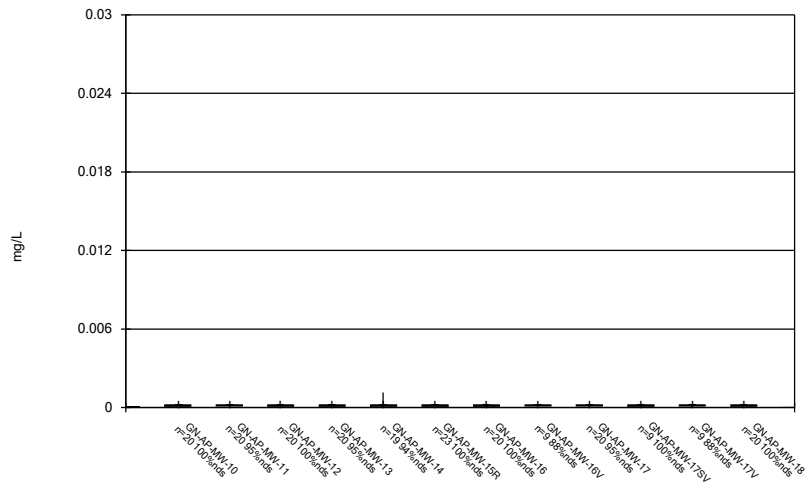
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Box & Whiskers Plot



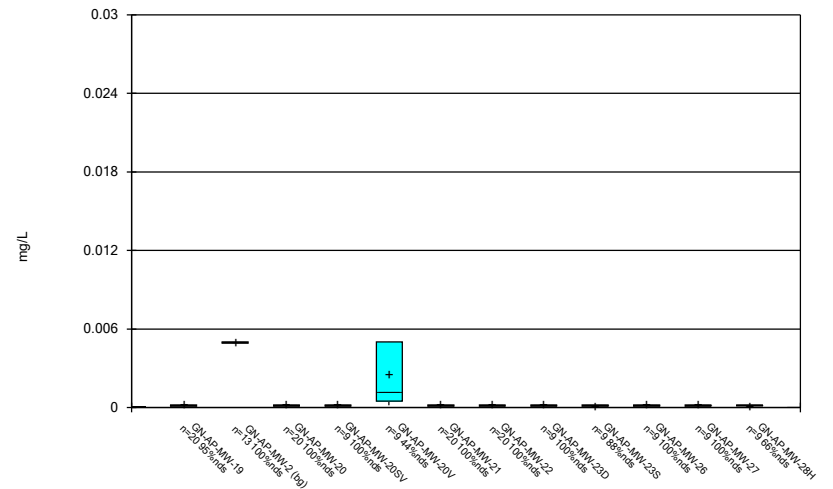
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Box & Whiskers Plot



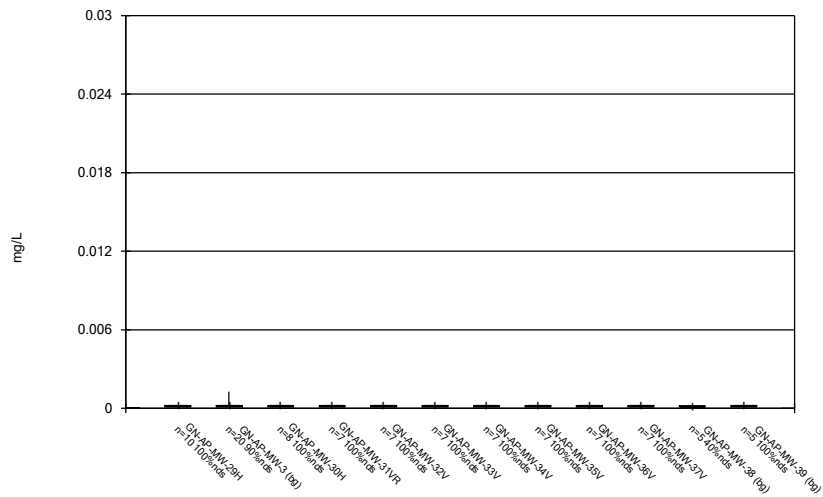
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Box & Whiskers Plot



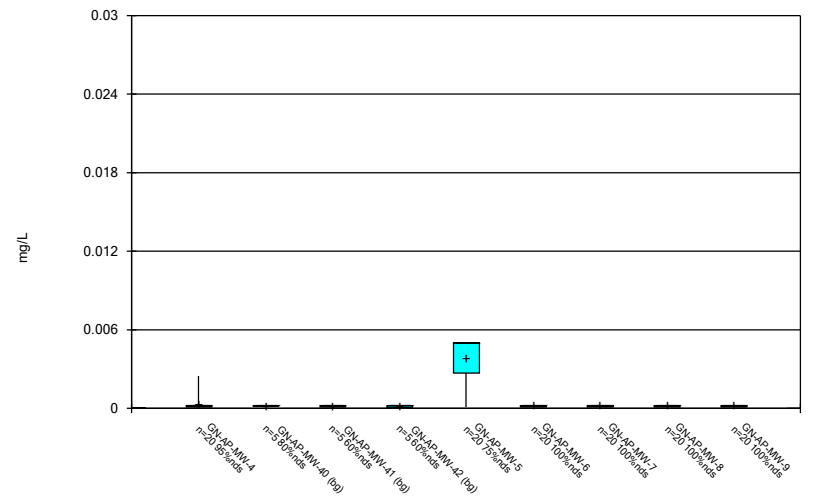
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Box & Whiskers Plot



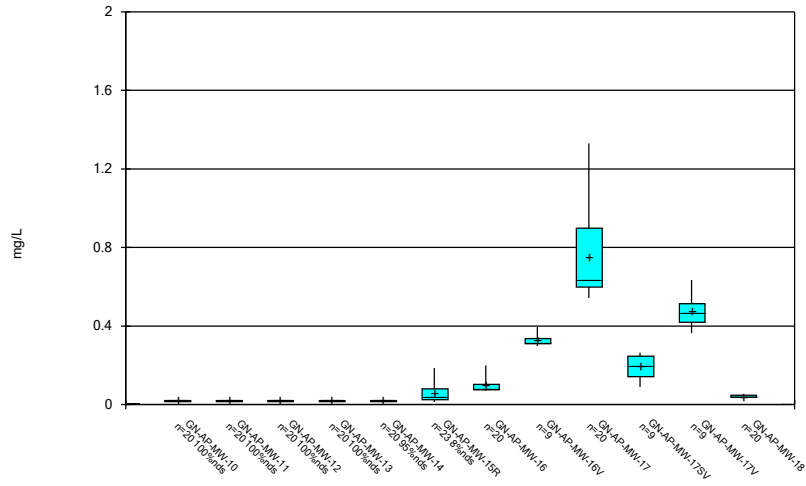
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Box & Whiskers Plot



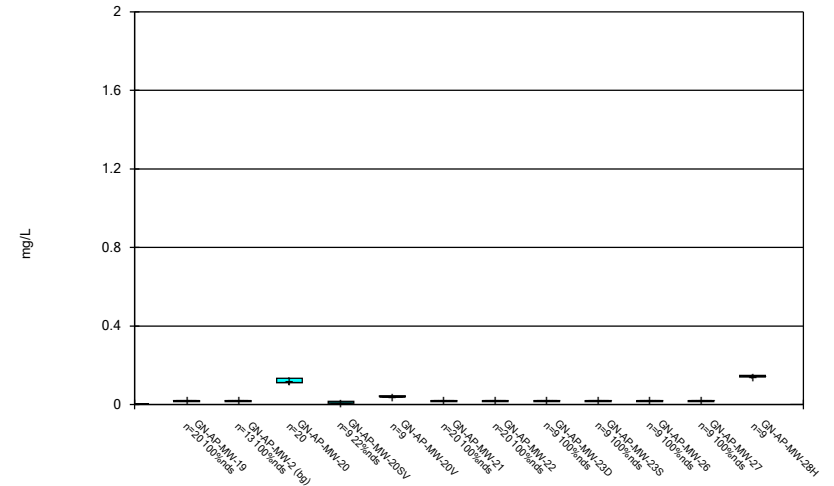
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Box & Whiskers Plot



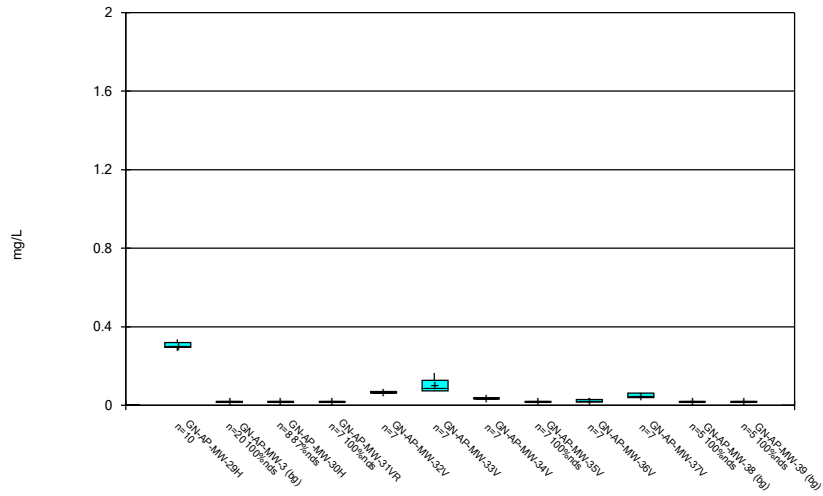
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Box & Whiskers Plot



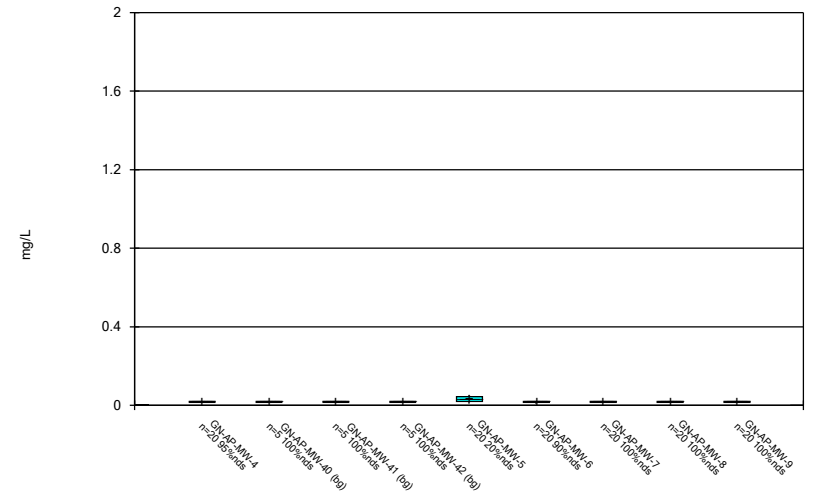
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Box & Whiskers Plot



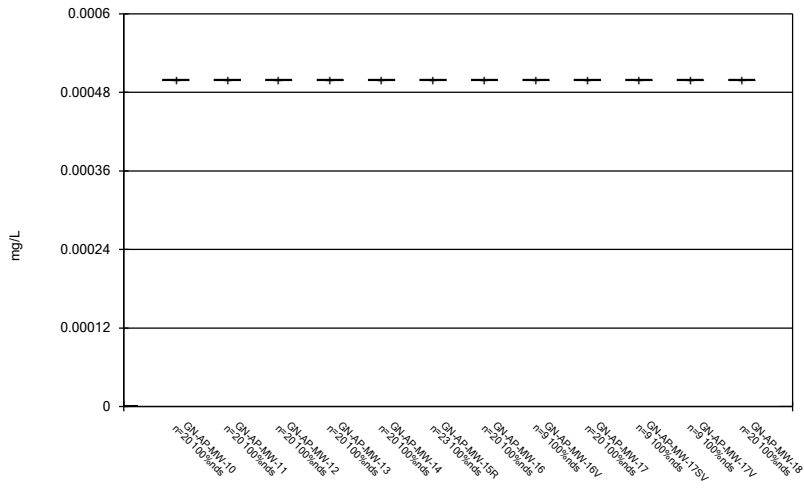
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Box & Whiskers Plot



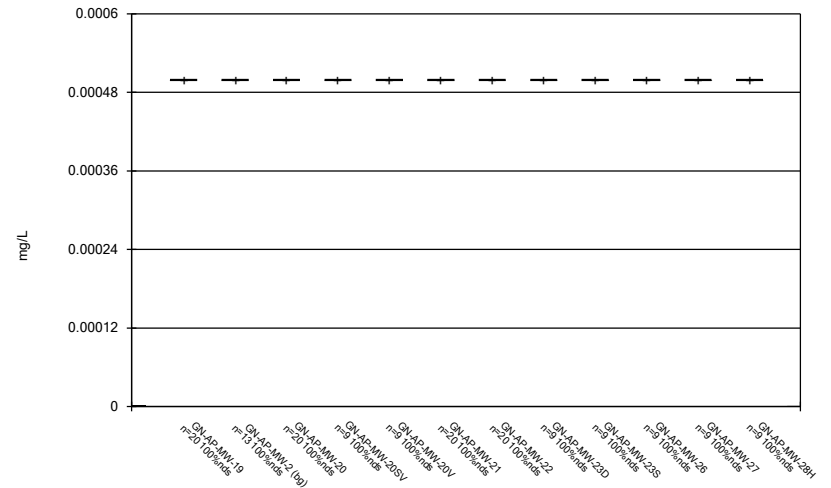
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Box & Whiskers Plot



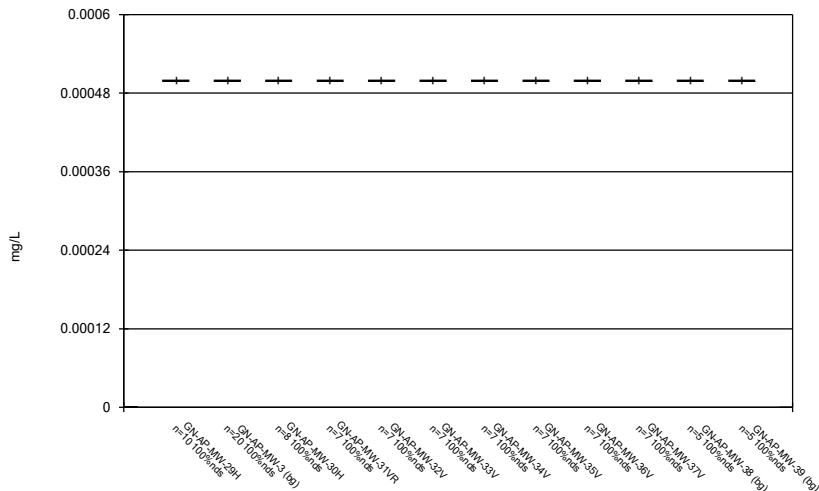
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Box & Whiskers Plot



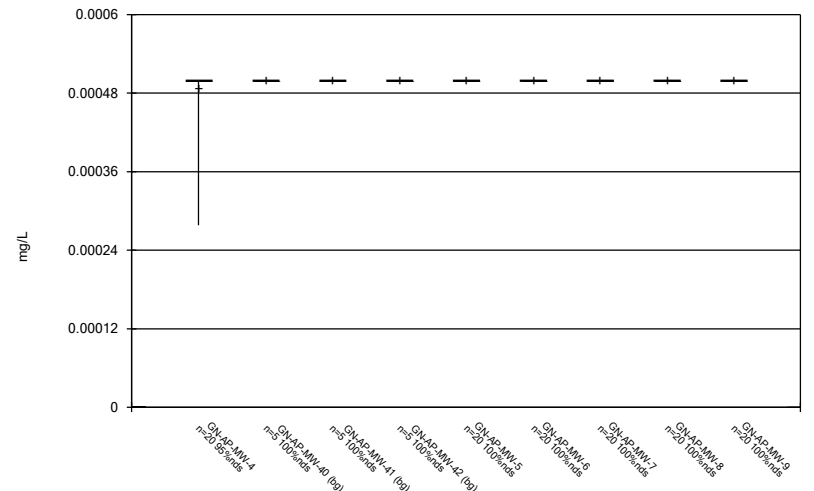
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Box & Whiskers Plot



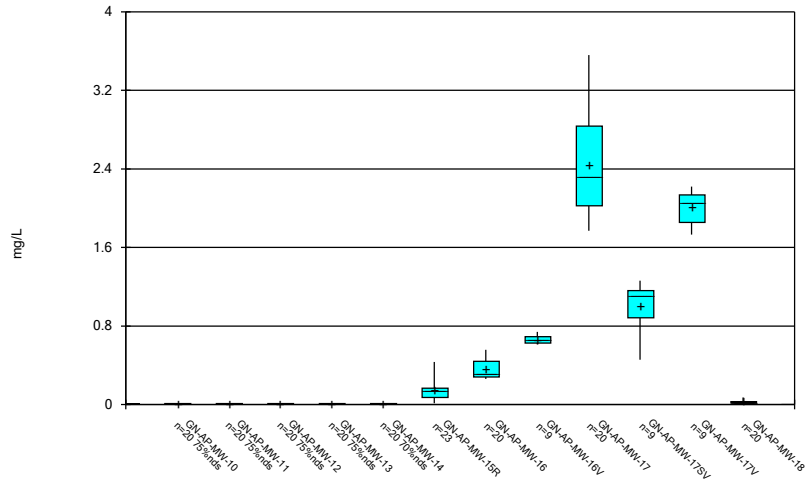
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Box & Whiskers Plot



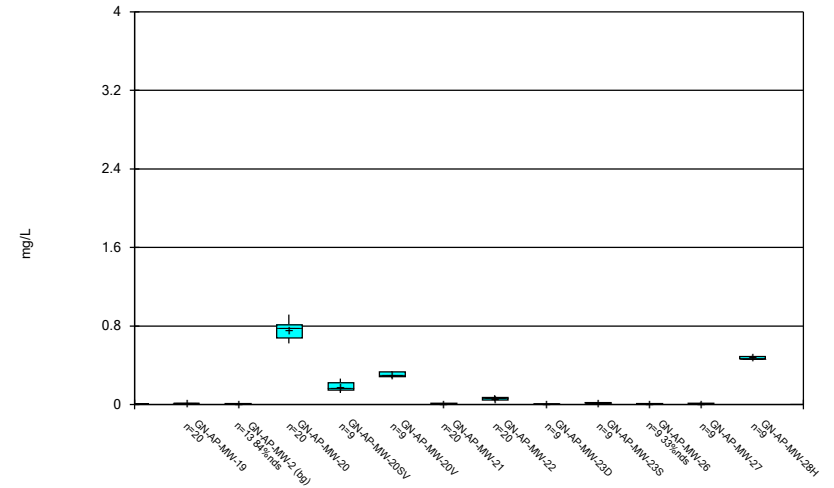
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Box & Whiskers Plot



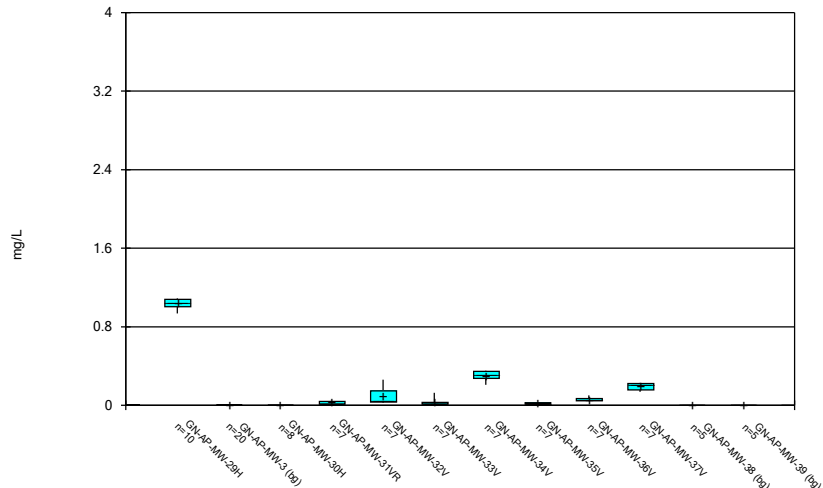
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Box & Whiskers Plot



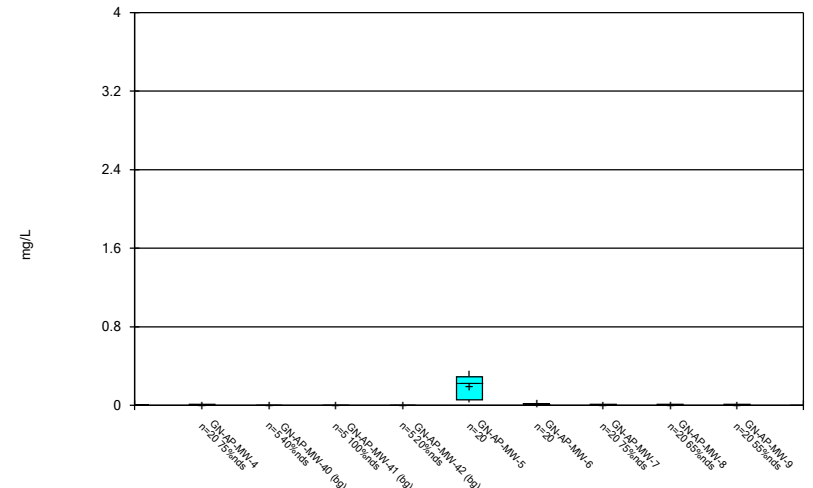
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Box & Whiskers Plot



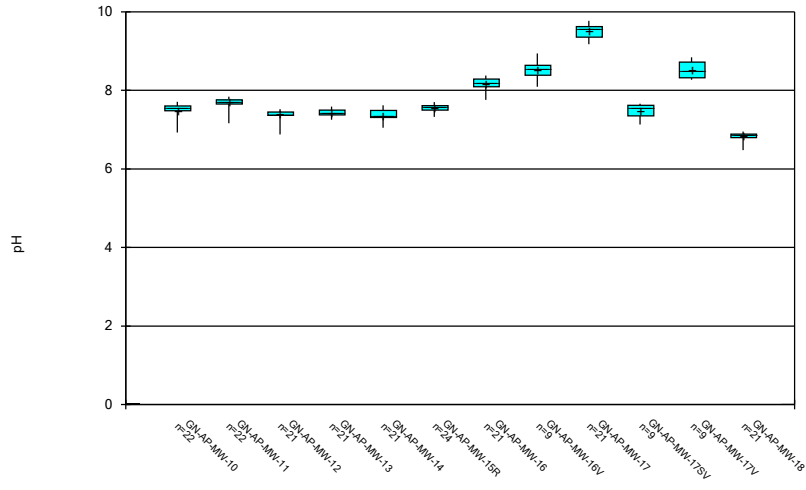
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Box & Whiskers Plot



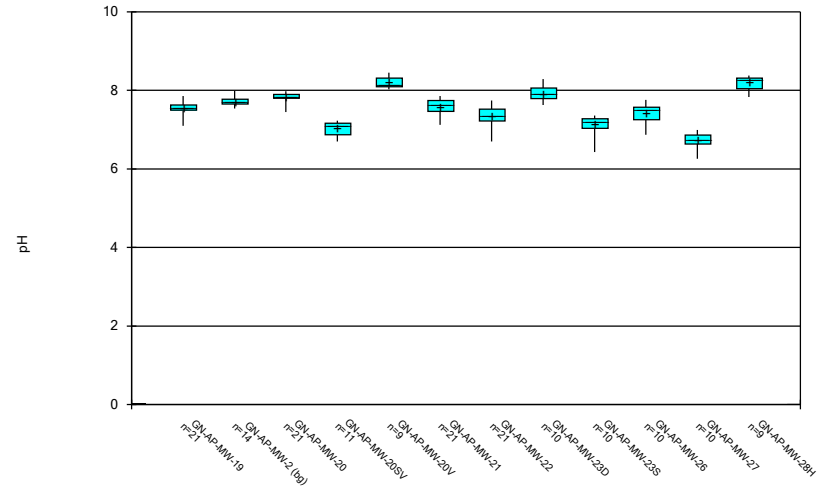
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Box & Whiskers Plot



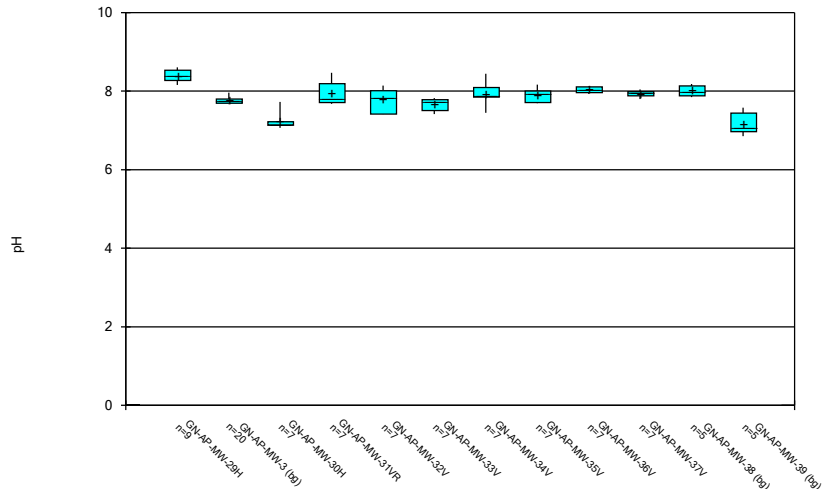
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Box & Whiskers Plot



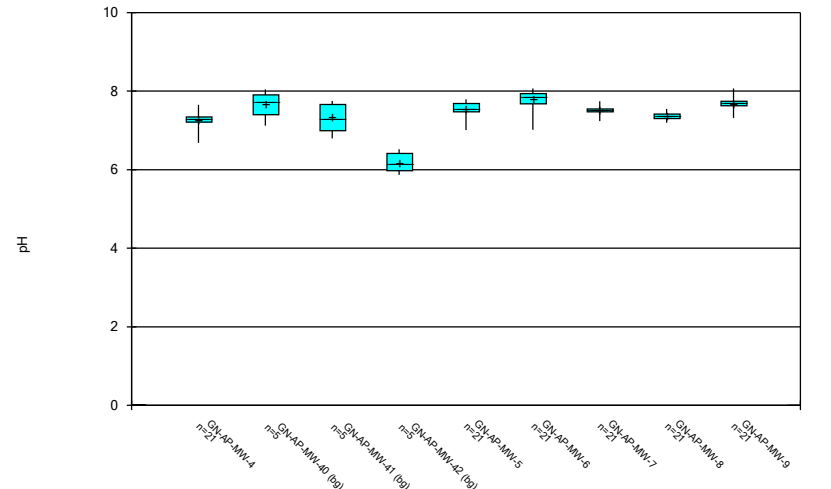
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Box & Whiskers Plot



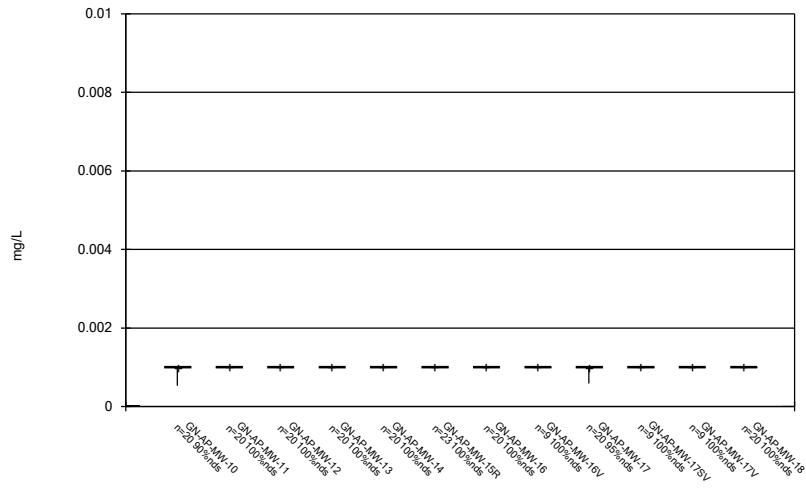
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Box & Whiskers Plot



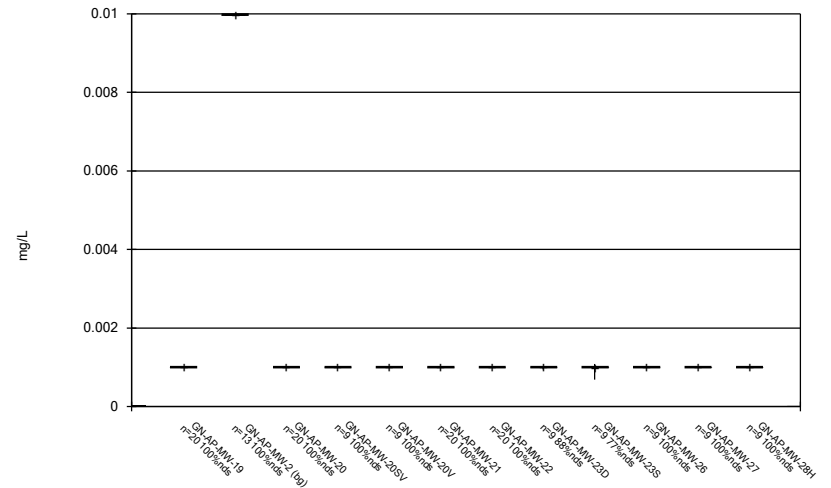
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Box & Whiskers Plot



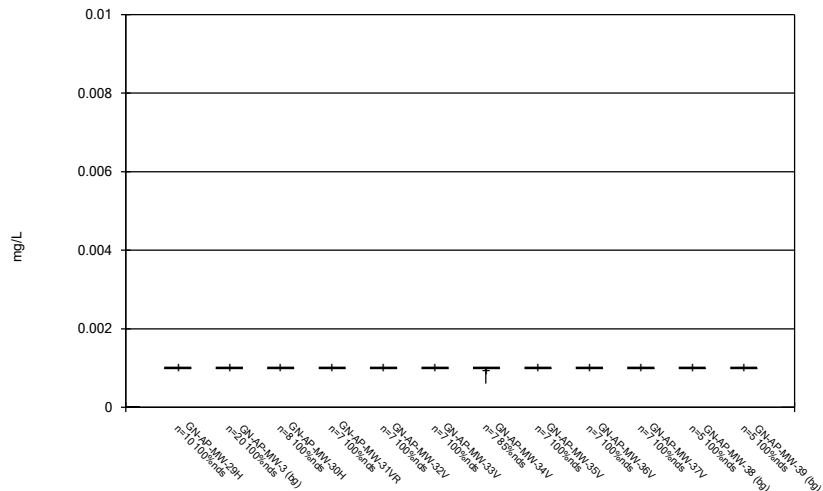
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Box & Whiskers Plot



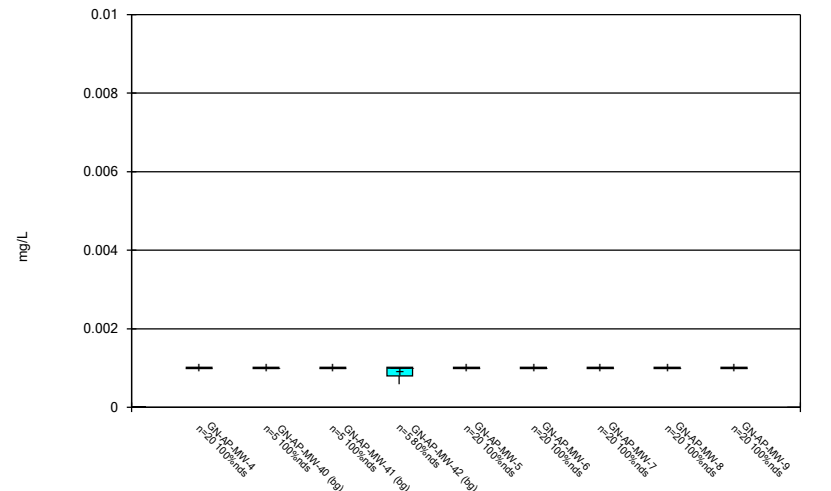
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



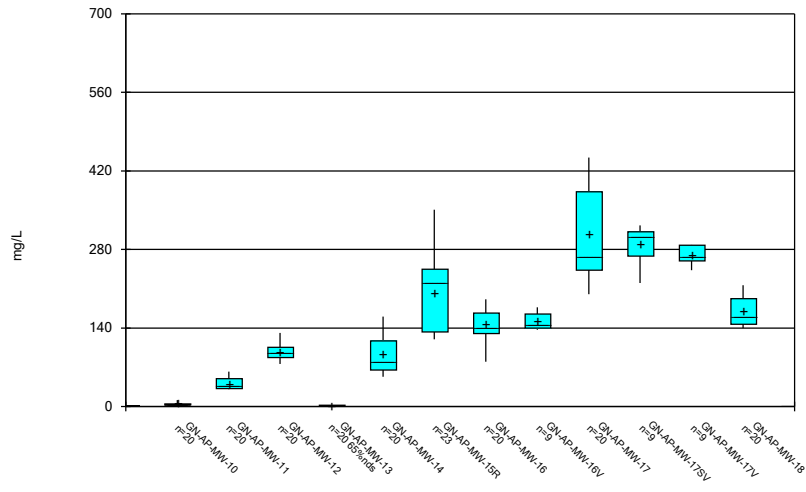
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



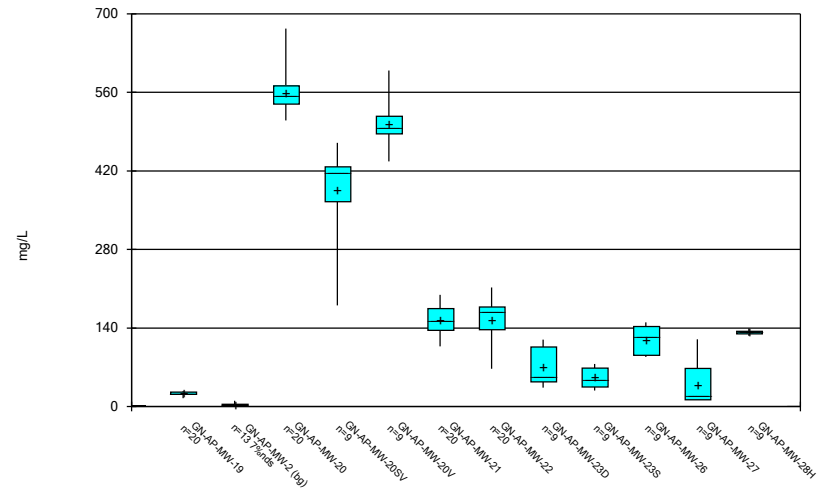
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



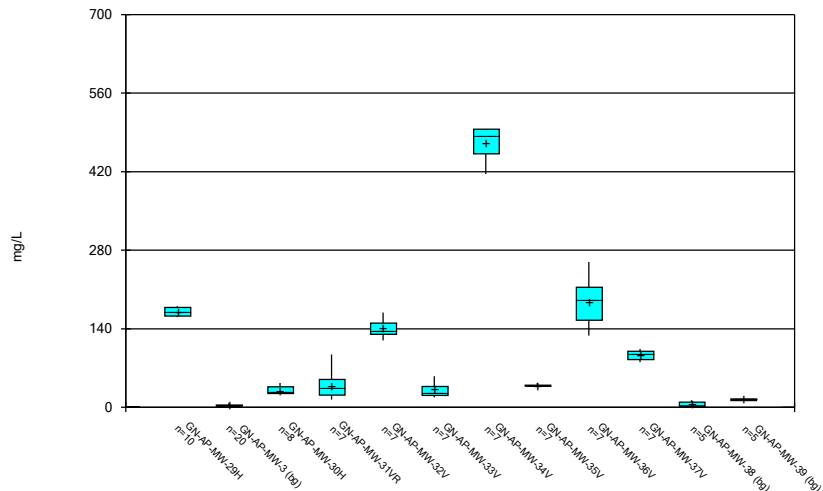
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Box & Whiskers Plot



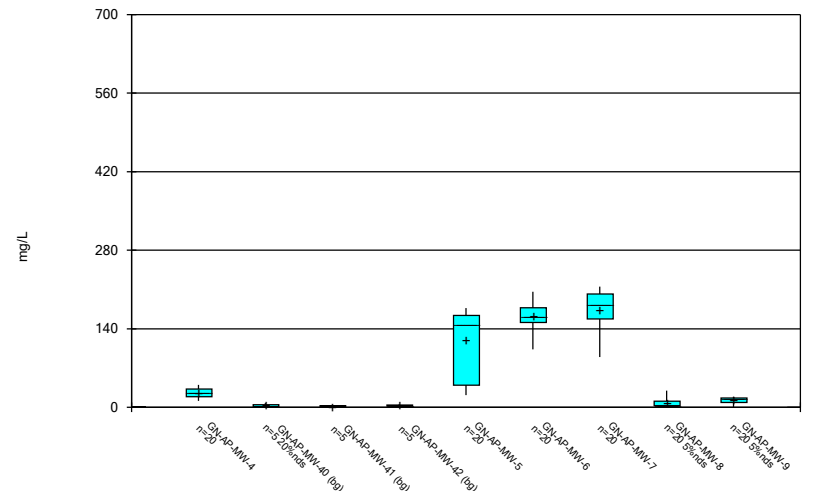
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



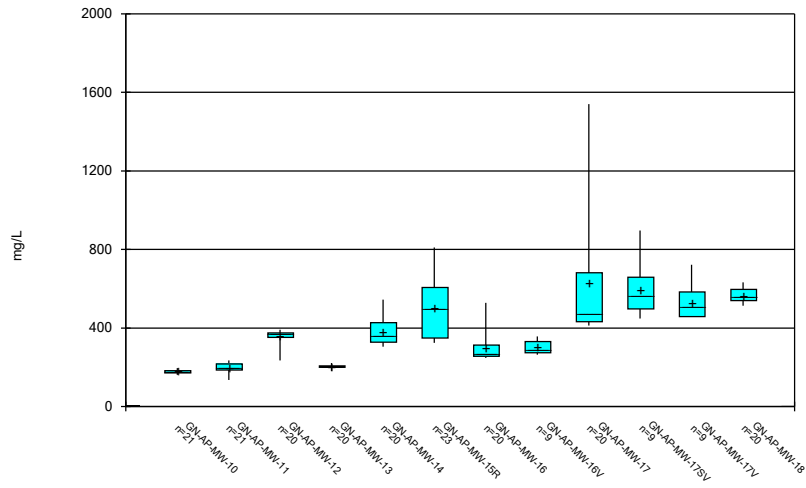
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



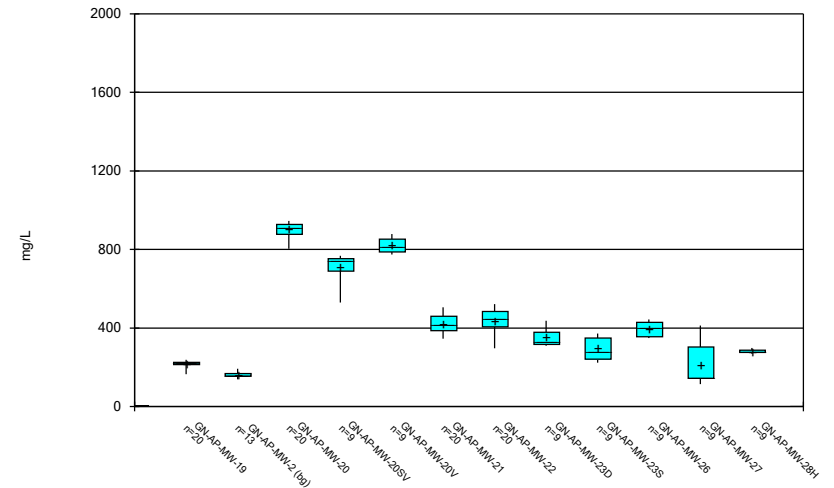
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



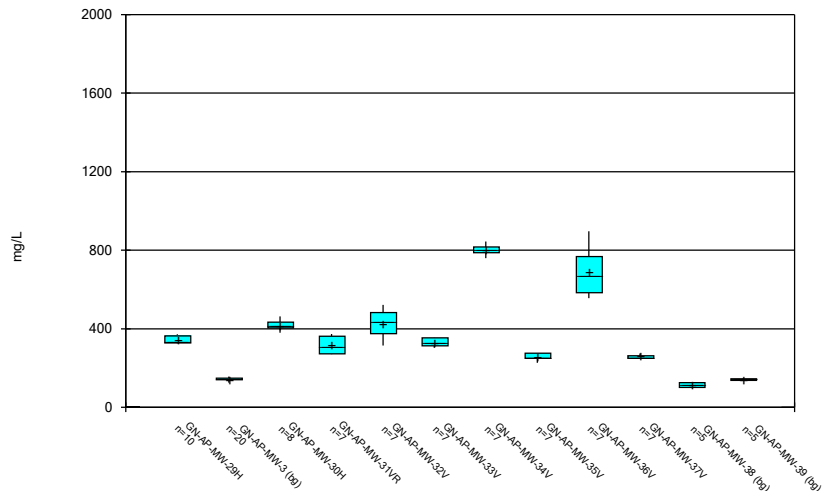
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



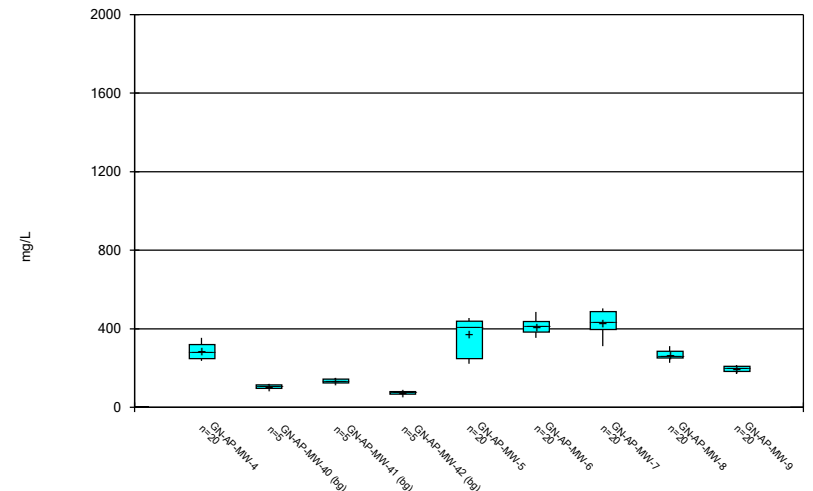
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



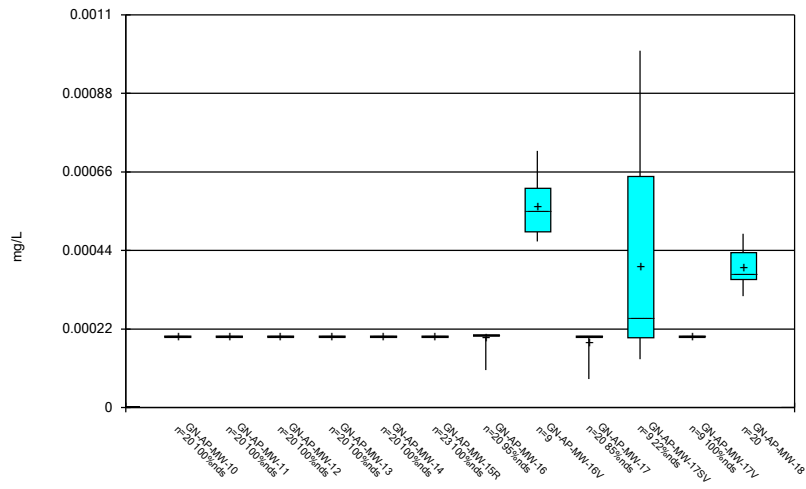
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



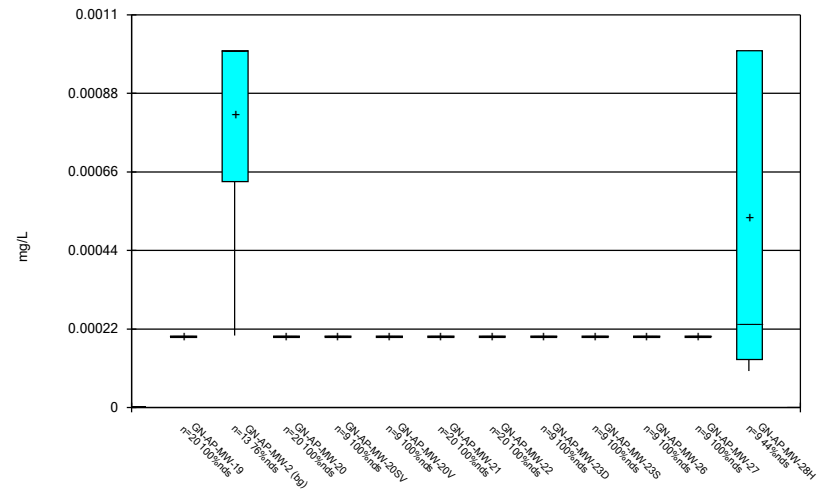
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



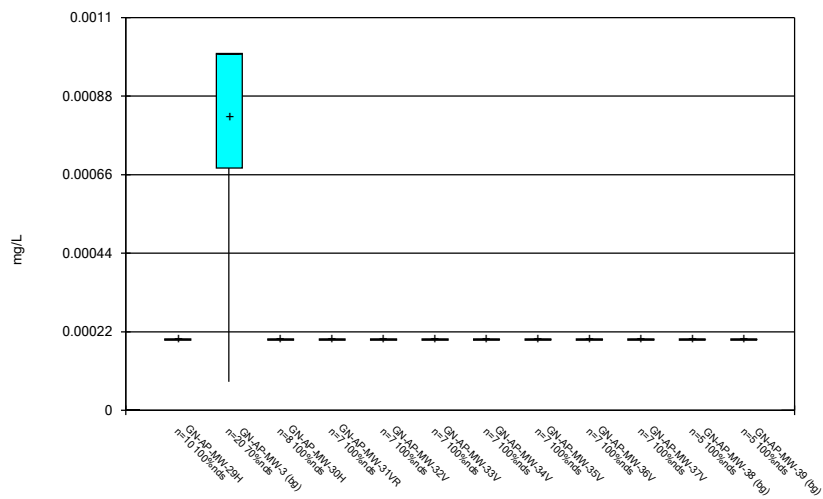
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



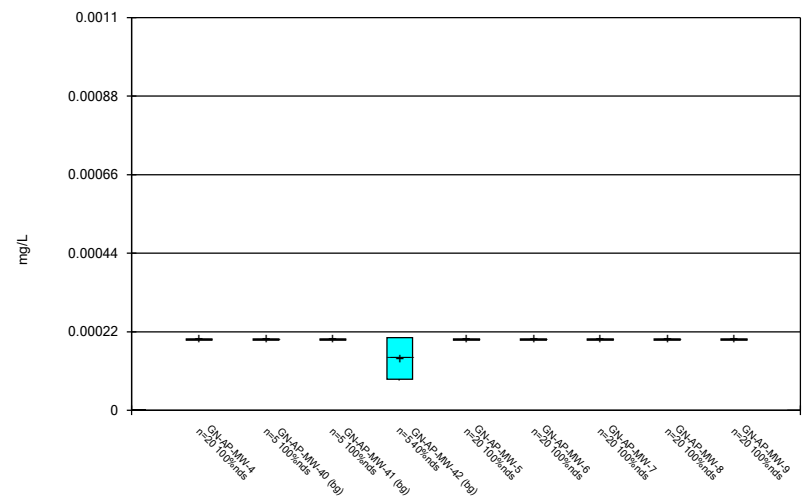
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/19/2023 7:00 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/19/2023 7:00 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

FIGURE C.

Outlier Summary

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/2/2023, 9:59 PM

GN-AP-MW-3 Calcium (mg/L)
GN-AP-MW-14 Lead (mg/L)
GN-AP-MW-3 pH (pH)

3/28/2016	0.0202 (o)
3/1/2017	<0.5 (o)
8/30/2022	9.22 (o)

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/2/2023, 10:11 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.1015	n/a	1/25/2023	0.327	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-12	0.1015	n/a	2/6/2023	0.463	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-15R	0.1015	n/a	1/24/2023	2.19	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-16	0.1015	n/a	1/30/2023	1.45	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-17	0.1015	n/a	1/30/2023	3.49	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-18	0.1015	n/a	1/24/2023	1.68	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-20	0.1015	n/a	1/24/2023	4.55	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-21	0.1015	n/a	2/6/2023	1.46	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-22	0.1015	n/a	2/6/2023	0.95	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-5	0.1015	n/a	2/6/2023	0.412	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-6	0.1015	n/a	2/6/2023	1.62	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-7	0.1015	n/a	1/25/2023	1.44	Yes	58	n/a	n/a	98.28	n/a	n/a	0.0005472	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-10	38.32	n/a	2/6/2023	45.4	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-11	38.32	n/a	1/25/2023	43	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-12	38.32	n/a	2/6/2023	76.3	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-13	38.32	n/a	2/1/2023	44.8	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-14	38.32	n/a	1/31/2023	66.6	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-15R	38.32	n/a	1/24/2023	98.3	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-16	38.32	n/a	1/30/2023	131	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-17	38.32	n/a	1/30/2023	374	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-18	38.32	n/a	1/24/2023	138	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-19	38.32	n/a	1/25/2023	43	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-20	38.32	n/a	1/24/2023	189	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-21	38.32	n/a	2/6/2023	83.3	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-22	38.32	n/a	2/6/2023	69.4	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-4	38.32	n/a	2/7/2023	59.7	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-5	38.32	n/a	2/6/2023	56.7	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-6	38.32	n/a	2/6/2023	81.5	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-7	38.32	n/a	1/25/2023	71.4	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-8	38.32	n/a	1/25/2023	53.1	Yes	57	26719	13570	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-11	6.09	n/a	1/25/2023	7.78	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-12	6.09	n/a	2/6/2023	19.7	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-15R	6.09	n/a	1/24/2023	91.2	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-16	6.09	n/a	1/30/2023	122	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-17	6.09	n/a	1/30/2023	436	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-18	6.09	n/a	1/24/2023	14.1	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-19	6.09	n/a	1/25/2023	14.1	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-20	6.09	n/a	1/24/2023	19.7	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-21	6.09	n/a	2/6/2023	25.7	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-22	6.09	n/a	2/6/2023	13.7	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-4	6.09	n/a	2/7/2023	9.01	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-5	6.09	n/a	2/6/2023	9.05	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-6	6.09	n/a	2/6/2023	21.2	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-7	6.09	n/a	1/25/2023	14.5	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
Chloride (mg/L)	GN-AP-MW-9	6.09	n/a	1/25/2023	9.4	Yes	58	n/a	n/a	1.724	n/a	n/a	0.0005472	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-17	8.18	5.87	1/30/2023	9.27	Yes	59	n/a	n/a	0	n/a	n/a	0.001054	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-11	14.63	n/a	1/25/2023	57.8	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-12	14.63	n/a	2/6/2023	107	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-14	14.63	n/a	1/31/2023	104	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-15R	14.63	n/a	1/24/2023	219	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-16	14.63	n/a	1/30/2023	186	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-17	14.63	n/a	1/30/2023	444	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-18	14.63	n/a	1/24/2023	212	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-19	14.63	n/a	1/25/2023	26.6	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-20	14.63	n/a	1/24/2023	554	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-21	14.63	n/a	2/6/2023	113	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-22	14.63	n/a	2/6/2023	67.2	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-5	14.63	n/a	2/6/2023	21.5	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-6	14.63	n/a	2/6/2023	103	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-7	14.63	n/a	1/25/2023	110	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-9	14.63	n/a	1/25/2023	18.6	Yes	58	1.138	0.7105	3.448	None	ln(x)	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-11	183.6	n/a	1/25/2023	234	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-12	183.6	n/a	2/6/2023	391	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-14	183.6	n/a	1/31/2023	436	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-15R	183.6	n/a	1/24/2023	562	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-16	183.6	n/a	1/30/2023	528	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-17	183.6	n/a	1/30/2023	1540	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-18	183.6	n/a	1/24/2023	632	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - Significant Results

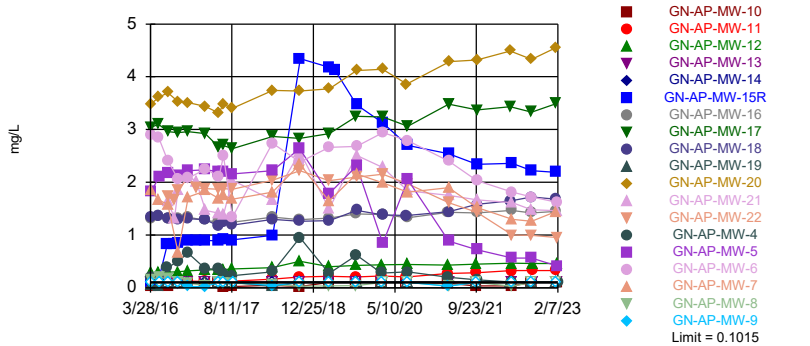
Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/2/2023, 10:11 PM

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-19	183.6	n/a	1/25/2023	225	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-20	183.6	n/a	1/24/2023	924	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-21	183.6	n/a	2/6/2023	376	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-22	183.6	n/a	2/6/2023	302	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-4	183.6	n/a	2/7/2023	247	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-5	183.6	n/a	2/6/2023	222	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-6	183.6	n/a	2/6/2023	374	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-7	183.6	n/a	1/25/2023	345	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-8	183.6	n/a	1/25/2023	227	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-9	183.6	n/a	1/25/2023	207	Yes	58	18932	6796	0	None	x^2	0.000396	Param Inter 1 of 2

Sanitas™ v.9.6.37 . 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



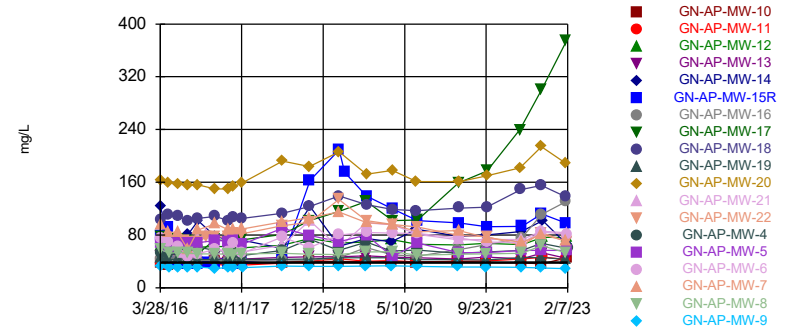
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 58 background values. 98.28% NDs. Annual per-constituent alpha = 0.02058. Individual comparison alpha = 0.0005472 (1 of 2). Comparing 19 points to limit.

Constituent: Boron Analysis Run 4/2/2023 10:01 PM View: Appendix III - PLS
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.37 . UG

Exceeds Limit: 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...

Prediction Limit
Interwell Parametric



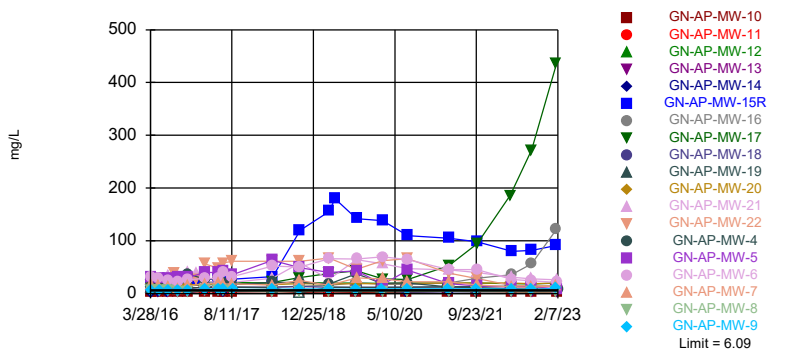
Background Data Summary (based on cube transformation): Mean=26719, Std. Dev.=13570, n=57. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9665, critical = 0.944. Kappa = 2.178 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

Constituent: Calcium Analysis Run 4/2/2023 10:01 PM View: Appendix III - PLS
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.37 . 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



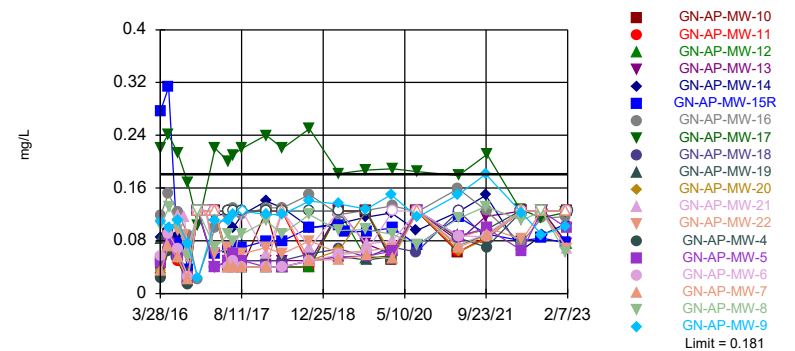
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 58 background values. 1.724% NDs. Annual per-constituent alpha = 0.02058. Individual comparison alpha = 0.0005472 (1 of 2). Comparing 19 points to limit.

Constituent: Chloride Analysis Run 4/2/2023 10:01 PM View: Appendix III - PLS
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.9.6.37 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

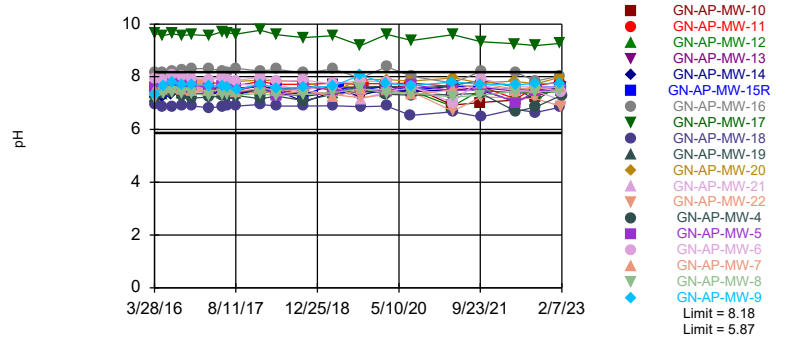


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 60 background values. 61.67% NDs. Annual per-constituent alpha = 0.01907. Individual comparison alpha = 0.0005065 (1 of 2). Comparing 19 points to limit.

Constituent: Fluoride Analysis Run 4/2/2023 10:01 PM View: Appendix III - PLS
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limits: GN-AP-MW-17

Prediction Limit Interwell Non-parametric



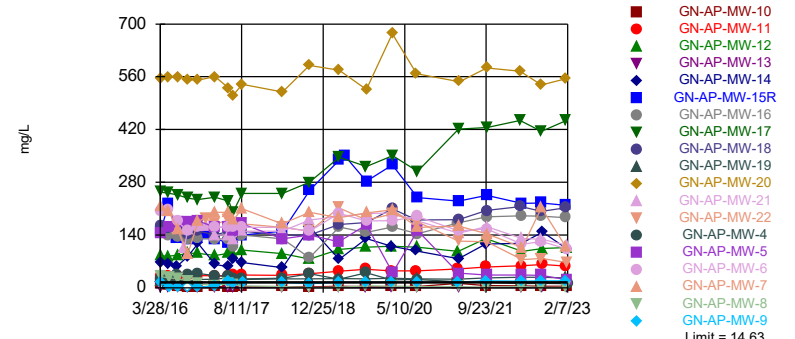
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 59 background values. Annual per-constituent alpha = 0.03965. Individual comparison alpha = 0.001054 (1 of 2). Comparing 19 points to limit.

Constituent: pH Analysis Run 4/2/2023 10:01 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

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

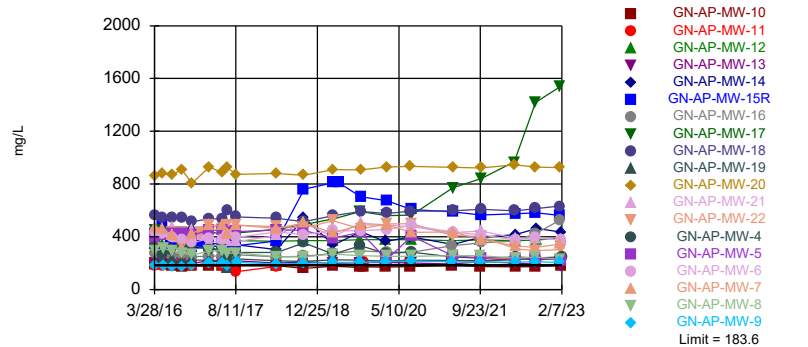


Background Data Summary (based on natural log transformation): Mean=1.138, Std. Dev.=0.7105, n=58, 3.448% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9548, critical = 0.944. Kappa = 2.175 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

Constituent: Sulfate Analysis Run 4/2/2023 10:01 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

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 square transformation): Mean=18932, Std. Dev.=6796, n=58. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9571, critical = 0.944. Kappa = 2.175 (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 4/2/2023 10:01 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
3/28/2016	0.103	<0.1015	0.0538 (J)	<0.1015	<0.1015				
3/29/2016						1.32	3.04	1.33	3.48
3/30/2016									
4/4/2016									
5/17/2016		<0.1015			<0.1015	1.35	3.1	1.37	
5/18/2016			0.0252 (J)	<0.1015					3.61
5/19/2016	0.169								
5/23/2016									
7/11/2016	0.829	<0.1015		<0.1015	<0.1015				
7/12/2016									
7/13/2016			<0.1015						3.7
7/14/2016						1.32	2.96		
7/18/2016								1.31	
8/22/2016	0.835								
9/12/2016									
9/13/2016		<0.1015	<0.1015			1.31	2.94		
9/14/2016	0.838			<0.1015	<0.1015			1.28	3.53
11/14/2016						1.34		1.31	3.51
11/15/2016	0.894	<0.1015							
11/16/2016			<0.1015	<0.1015	<0.1015		2.96		
1/3/2017	0.897								
2/27/2017	0.897	<0.1015	<0.1015						
2/28/2017						1.28	2.92	1.29	3.44
3/1/2017				<0.1015	<0.1015				
5/22/2017	0.892		<0.1015						
5/23/2017				<0.1015	<0.1015				
5/24/2017		<0.1015				1.24	2.66	1.17	3.31
6/19/2017				<0.1015	<0.1015	1.26	2.7	1.24	3.48
6/20/2017	0.91								
6/21/2017		<0.1015	<0.1015						
8/14/2017	0.906		<0.1015			1.24	2.64	1.19	3.4
8/15/2017		<0.1015		<0.1015	<0.1015				
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	0.991	<0.1015	0.0258 (J)	<0.1015	<0.1015	1.34	2.87	1.3	3.74
10/1/2018						1.29	2.83	1.26	3.73
10/2/2018			<0.1015						
10/3/2018				<0.1015	<0.1015				
10/4/2018									
10/5/2018	4.34	<0.1015							
4/1/2019			<0.1015	<0.1015					
4/2/2019					<0.1015				
4/3/2019	4.18	<0.1015				1.32	2.92	1.27	3.77
5/7/2019	4.13								
9/16/2019						1.4			
9/17/2019		<0.1015			<0.1015		3.25		
9/18/2019	3.47		<0.1015	<0.1015				1.47	4.12
2/17/2020									
2/18/2020			<0.1015						
2/19/2020		<0.1015			<0.1015				
2/25/2020	3.13					1.39		1.38	4.14

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
2/26/2020							3.24		
7/22/2020								1.37	3.86
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	2.54	<0.1015					3.48	1.44	
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					1.42		1.58	4.32
9/29/2021							3.37		
4/19/2022			<0.1015						
4/20/2022							3.43		4.49
4/26/2022								1.65	
4/27/2022		<0.1015				1.47			
5/2/2022	2.36								
5/3/2022					<0.1015				
8/29/2022									
8/30/2022			<0.1015		<0.1015	1.42	3.33	1.72	4.33
8/31/2022	2.22								
9/6/2022		<0.1015							
9/7/2022									
1/24/2023	2.19							1.68	4.55
1/25/2023			<0.1015						
1/30/2023						1.45	3.49		
1/31/2023		<0.1015							
2/1/2023									
2/6/2023									
2/7/2023					<0.1015				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
3/28/2016									
3/29/2016	0.161								
3/30/2016		<0.1015	0.287	0.193	1.82	0.112	2.89	0.0291 (J)	1.85
4/4/2016									
5/17/2016				0.201				0.0466 (J)	
5/18/2016		<0.1015	0.286			0.118			
5/19/2016							2.84		1.66
5/23/2016	0.197				2.11				
7/11/2016				0.375					
7/12/2016	0.17								
7/13/2016			0.299			0.125	2.41	0.0305 (J)	1.58
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				2.13	0.108	2.06	<0.1015	0.674
9/14/2016				0.507					
11/14/2016		<0.1015	0.323			0.126			
11/15/2016	0.0853 (J)				2.22		2.08	<0.1015	1.72
11/16/2016				0.655					
1/3/2017									
2/27/2017									
2/28/2017	0.0452 (J)	<0.1015	0.336	0.364		0.12		<0.1015	
3/1/2017					2.24		2.25		1.84
5/22/2017						0.116		<0.1015	
5/23/2017					2.2		2.11		1.69
5/24/2017	0.113	<0.1015	0.342	0.352					
6/19/2017						0.12		0.0204 (J)	
6/20/2017	0.0853 (J)				2.2		2.5		1.75
6/21/2017		<0.1015	0.342	0.263					
8/14/2017		<0.1015	0.359			0.124		0.0242 (J)	
8/15/2017	0.0862 (J)			0.23	2.16		1.34		1.68
8/16/2017									
4/16/2018			0.384			0.163		0.0466 (J)	
4/17/2018	0.0649 (J)				2.22		2.74		1.81
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			0.503			0.206	2.38		2.34
10/5/2018		<0.1015							
4/1/2019	0.0345 (J)								
4/2/2019				0.271	1.78		2.66		1.64
4/3/2019		<0.1015	0.401			0.216		<0.1015	
5/7/2019									
9/16/2019			0.423			0.207		<0.1015	
9/17/2019	0.0439 (J)	<0.1015		0.619					
9/18/2019					2.31		2.68		2.16
2/17/2020						0.221		<0.1015	
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 4/2/2023 10:11 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
2/26/2020					0.84		2.94		1.99
7/22/2020						0.205		<0.1015	
7/23/2020									
7/27/2020		<0.1015	0.444	0.3					
7/28/2020					2.05		2.79		1.81
7/29/2020	<0.1015								
4/5/2021			0.427	0.2		0.271		0.0854 (J)	
4/6/2021	0.0327 (J)	<0.1015							
4/7/2021					0.885		2.4		1.9
4/12/2021									
4/13/2021									
9/21/2021	<0.1015					0.283		0.0378 (J)	
9/22/2021		<0.1015	0.447						
9/27/2021				0.149	0.721		2.03		1.52
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	0.0313 (J)	<0.1015		0.109		0.324		0.0352 (J)	
5/3/2022			0.465		0.562		1.81		1.3
8/29/2022									
8/30/2022				0.112	0.562		1.72		1.26
8/31/2022	<0.1015							<0.1015	
9/6/2022			0.459			0.326			
9/7/2022		<0.1015							
1/24/2023									
1/25/2023	<0.1015					0.327			1.44
1/30/2023									
1/31/2023									
2/1/2023		<0.1015							
2/6/2023			0.463		0.412		1.62	<0.1015	
2/7/2023				0.0979 (J)					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 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-38 (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	<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 4/2/2023 10:11 PM View: Appendix III - PLs
 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-38 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-39 (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	0.0342 (J)	<0.1015	
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					
8/29/2022				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
8/30/2022		1.48	0.992					
8/31/2022	<0.1015							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	<0.1015							
1/30/2023								
1/31/2023								
2/1/2023				<0.1015	<0.1015	<0.1015		<0.1015
2/6/2023		1.46	0.95					
2/7/2023							<0.1015	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-14	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
3/28/2016	79.7	46	34.2	124	31.6				
3/29/2016						43.2	77.4	104	163
3/30/2016									
4/4/2016									
5/17/2016				74.6	29.6	41.4	70.3	110	
5/18/2016		42.9	32.6						160
5/19/2016	91.5								
5/23/2016									
7/11/2016	38.1		32.5	68.9	30				
7/12/2016									
7/13/2016		43.1							158
7/14/2016						41.9	73		
7/18/2016								109	
8/22/2016	37.3								
9/12/2016									
9/13/2016		44.1		80.3		39.6	70.7		
9/14/2016	36.5		32.1		30.6			101	156
11/14/2016						41		105	156
11/15/2016	36.8			102					
11/16/2016		42.7	33.4		30.4		51.7		
1/3/2017	38								
2/27/2017	36.8	43.1		77.9					
2/28/2017									
3/1/2017			33.3		<0.5 (o)	41.8	73.1	108	150
5/22/2017	36.9	41.9							
5/23/2017			32.7		30.1				
5/24/2017				72.9		39.8	70.6	102	150
6/19/2017			32.6		29.9	40.2	67.7	107	153
6/20/2017	36.9								
6/21/2017		41.8		80					
8/14/2017	39.5	43				41.3	72.8	105	159
8/15/2017			31.5	72.1	28.1				
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	43.4	43.2	34.2	59.6	31.2	42.3	80.8	113	192
10/1/2018						41.5	102	123	184
10/2/2018		43.8							
10/3/2018			38.6		32.3				
10/4/2018									
10/5/2018	163			123					
4/1/2019		45.6	35.8						
4/2/2019					31.6				
4/3/2019	209			63.1		45.7	116	139	206
5/7/2019	175								
9/16/2019						61.3			
9/17/2019				74.9	31.7		131		
9/18/2019	139	45.6	35					126	172
2/17/2020									
2/18/2020		45.5							
2/19/2020				69.9	32.3				
2/25/2020	120					50		119	178

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-14	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	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	98.6		78.2				159	121	
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					65.3		122	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				
8/29/2022									
8/30/2022		45.799999			30.6	111	300	155	214
8/31/2022	112								
9/6/2022			102						
9/7/2022									
1/24/2023	98.300003							138	189
1/25/2023		43							
1/30/2023						131	374		
1/31/2023			66.599998						
2/1/2023									
2/6/2023									
2/7/2023					29				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLS

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-10	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-12	GN-AP-MW-7
2/26/2020					46.8		83.1		95.8
7/22/2020		38.5				39			
7/23/2020									
7/27/2020			45.5	57				65.7	
7/28/2020					67.8		82.5		84.9
7/29/2020	49.4								
4/5/2021		40		52.2		40.1		64.8	
4/6/2021	51.1		43.8						
4/7/2021					53.3		75.5		86.8
4/12/2021									
4/13/2021									
9/21/2021	51.4	38.4				40.9			
9/22/2021			46.6					67.3	
9/27/2021				54.4	53.1		69.2		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	37.8	44.1	56.8		43.4			
5/3/2022					56.6		68.8	65.3	69
8/29/2022									
8/30/2022				67.400002	56.599998		84.599998		81.199997
8/31/2022	64	36.400002							
9/6/2022						46.700001		76.800003	
9/7/2022			52.700001						
1/24/2023									
1/25/2023	53.099998					43			71.400002
1/30/2023									
1/31/2023									
2/1/2023			44.799999						
2/6/2023		45.400002			56.700001		81.5	76.300003	
2/7/2023				59.700001					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLS
 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-38 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-39 (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	23.2	22.9	35	
4/13/2021								11.7
9/21/2021	31.5			31.7	22.3	21.6	36.1	15.4
9/22/2021								
9/27/2021		73.4	77.7					
9/28/2021								
9/29/2021								
4/19/2022				29.4	23.3	21.6	36.4	11
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	30.9							
5/3/2022		73	64					
8/29/2022				30.799999	23.1	21.299999	36.400002	13.3
8/30/2022		85.599998	83.699997					
8/31/2022	29.9							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	29.1							
1/30/2023								
1/31/2023								
2/1/2023				27.200001	21.200001	20		11.7
2/6/2023		83.300003	69.400002					
2/7/2023							35.200001	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
3/28/2016	21.9	2.11	9.86	1.73	2.48				
3/29/2016						10.8	14.7	11.1	17.2
3/30/2016									
4/4/2016									
5/17/2016		2.38			1.9	10	13.8	10.3	
5/18/2016			9.4	1.4					16.2
5/19/2016	20.9								
5/23/2016									
7/11/2016	23	2.42		1.73	1.93				
7/12/2016									
7/13/2016			10.3						16.2
7/14/2016						10.1	13.8		
7/18/2016								10.3	
8/22/2016	23.3								
9/12/2016									
9/13/2016		2.34	9.68			10.4	14.1		
9/14/2016	23.6			2.24	1.77			10.3	16.2
11/14/2016						10.4		10.3	16.1
11/15/2016	23.8	2.55							
11/16/2016			10.2	3.57	1.98		14.2		
1/3/2017	24.1								
2/27/2017	27	5.8	12						
2/28/2017						12	17	12	18
3/1/2017				3.4	2.3				
5/22/2017	28		12						
5/23/2017				2.4	2.2				
5/24/2017		5.9				12	17	13	18
6/19/2017				1.9 (J)	1.7 (J)	11	16	12	18
6/20/2017	27								
6/21/2017		3.6	12						
8/14/2017	27		12			12	17	12	18
8/15/2017		4.9		5.4	2.1				
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	32	6.5	11	1.8 (J)	1.7 (J)	12	21	12	17
10/1/2018						14	30	13	19
10/2/2018			<2						
10/3/2018				<2	1.7 (J)				
10/4/2018									
10/5/2018	120	3.5							
4/1/2019			11.9	1.36					
4/2/2019					1.65				
4/3/2019	156	5.72				15.9	38	12.1	17.9
5/7/2019	180								
9/16/2019						20.4			
9/17/2019		4.16			1.93		43.2		
9/18/2019	142		11.6	1.53				12.2	18.7
2/17/2020									
2/18/2020			11.4						
2/19/2020		4.9			1.81				
2/25/2020	138					17.7		12.2	19

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
2/26/2020							27.7		
7/22/2020								12.3	19.3
7/23/2020		3.1							
7/27/2020			12.1		1.83				
7/28/2020	110					17.4			
7/29/2020							26.5		
4/5/2021			12.6		1.91	19.8			
4/6/2021	105	3.37					52.8	12.4	
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					28.9		13.2	20
9/29/2021							94.3		
4/19/2022			13.7						
4/20/2022							186		19.9
4/26/2022								13.5	
4/27/2022		4.1				35.8			
5/2/2022	79.9								
5/3/2022					1.67				
8/29/2022									
8/30/2022			13		1.64	56.599998	272	13	19
8/31/2022	82								
9/6/2022		5.29							
9/7/2022									
1/24/2023	91.199997							14.1	19.700001
1/25/2023			14.1						
1/30/2023						122	436		
1/31/2023		5.23							
2/1/2023									
2/6/2023									
2/7/2023					2.32				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
2/26/2020					17.5		69.7		28
7/22/2020						6.75		2.53	
7/23/2020									
7/27/2020		5.2	19.8	20.2					
7/28/2020					44.2		64.2		22.3
7/29/2020	3.77								
4/5/2021			19.7	12.8		7.09		3.88	
4/6/2021	3.9	5.06							
4/7/2021					18.8		45.5		22.4
4/12/2021									
4/13/2021									
9/21/2021	3.8					7.14		3.39	
9/22/2021		4.8	19.7						
9/27/2021				11	14.6		45.3		16.5
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	3.33	4.32		8.75		6.86		3.2	
5/3/2022			18.9		12.8		26.9		12.6
8/29/2022									
8/30/2022				8.56	12.6		23.9		12
8/31/2022	2.97							2.43	
9/6/2022			18.4			7.27			
9/7/2022		4.55							
1/24/2023									
1/25/2023	3.58					7.78			14.5
1/30/2023									
1/31/2023									
2/1/2023		4.54							
2/6/2023			19.700001		9.05		21.200001	2.95	
2/7/2023				9.01					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
3/28/2016	0.084 (J)	0.276 (J)	0.083 (J)	0.028 (J)	0.032 (J)				
3/29/2016						0.118 (J)	0.221 (J)	0.04 (J)	0.035 (J)
3/30/2016									
4/4/2016									
5/17/2016	0.098 (J)				0.068 (J)	0.151 (J)	0.241 (J)	0.079 (J)	
5/18/2016			0.092 (J)	0.064 (J)					0.076 (J)
5/19/2016		0.313							
5/23/2016									
7/11/2016	0.086 (J)	0.076 (J)		0.054 (J)	0.057 (J)				
7/12/2016									
7/13/2016			0.064 (J)						0.053 (J)
7/14/2016						0.124 (J)	0.213 (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)			0.089 (J)	0.168 (J)		
9/14/2016		0.036 (J)		0.016 (J)	0.017 (J)			0.025 (J)	0.022 (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						0.1	0.22	0.04 (J)	<0.125
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					0.12	0.2	0.05 (J)	0.04 (J)
6/19/2017				<0.125	<0.125	0.13	0.21	0.05 (J)	0.04 (J)
6/20/2017		0.07 (J)							
6/21/2017	0.1		0.05 (J)						
8/14/2017		0.07 (J)	0.04 (J)			0.12	0.22	0.05 (J)	0.04 (J)
8/15/2017	0.12			<0.125	<0.125				
8/16/2017									
1/9/2018	0.14	0.08 (J)				0.13	0.24	0.05 (J)	0.04 (J)
1/10/2018			0.04 (J)	<0.125	<0.125				
4/16/2018									
4/17/2018									
4/19/2018	0.13	0.08 (J)	0.04 (J)	<0.125	<0.125	0.13	0.22	0.05 (J)	0.04 (J)
10/1/2018						0.15	0.25	0.06 (J)	0.05 (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			0.0563 (J)	<0.125					
4/2/2019					<0.125				
4/3/2019	0.106	0.104				0.12	0.182	0.0678 (J)	0.0657 (J)
5/7/2019		0.0937 (J)							
9/16/2019						0.126			
9/17/2019	0.116				<0.125		0.187		
9/18/2019		0.094 (J)	0.0507 (J)	<0.125				0.0551 (J)	<0.125
2/17/2020									
2/18/2020			0.0557 (J)						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
2/19/2020	0.122				<0.125				
2/25/2020		0.0995 (J)				0.133		0.0701 (J)	0.0566 (J)
2/26/2020							0.189		
7/22/2020								0.0628 (J)	<0.125
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			0.088 (J)		0.0801 (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		0.0839 (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	0.0652 (J)					0.0766 (J)			
5/2/2022		0.08 (J)							
5/3/2022					<0.125				
8/29/2022									
8/30/2022			<0.125		<0.125	0.114 (J)	0.115 (J)	<0.125	<0.125
8/31/2022		0.0842 (J)							
9/6/2022	0.0891 (J)								
9/7/2022									
1/24/2023		0.0768 (J)						<0.125	<0.125
1/25/2023			<0.125						
1/30/2023						0.117 (J)	0.123 (J)		
1/31/2023	0.106 (J)								
2/1/2023									
2/6/2023									
2/7/2023					<0.125				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLS
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
3/28/2016									
3/29/2016	0.104 (J)								
3/30/2016		0.042 (J)	0.039 (J)	0.023 (J)	0.048 (J)	0.026 (J)	0.056 (J)	0.052 (J)	0.034 (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			0.058 (J)			0.049 (J)	0.067 (J)	0.06 (J)	0.054 (J)
7/14/2016		0.06 (J)			0.058 (J)				
7/18/2016									
8/22/2016									
9/12/2016		0.028 (J)	0.023 (J)						
9/13/2016	0.057 (J)				0.025 (J)	0.018 (J)	0.026 (J)	0.019 (J)	0.021 (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					0.04 (J)		<0.125		<0.125
5/22/2017						<0.125		0.04 (J)	
5/23/2017					0.05 (J)		0.04 (J)		0.04 (J)
5/24/2017	0.09 (J)	0.05 (J)	0.05 (J)	<0.125					
6/19/2017						<0.125		0.04 (J)	
6/20/2017	0.08 (J)				0.06 (J)		0.05 (J)		0.04 (J)
6/21/2017		0.05 (J)	0.05 (J)	<0.125					
8/14/2017		0.05 (J)	0.04 (J)			<0.125		0.04 (J)	
8/15/2017	0.09 (J)			<0.125	0.05 (J)		0.04 (J)		0.04 (J)
8/16/2017									
1/9/2018		0.05 (J)	0.04 (J)		0.04 (J)	<0.125			
1/10/2018	0.11			<0.125			0.04 (J)	<0.125	0.04 (J)
4/16/2018			0.04 (J)			<0.125		0.04 (J)	
4/17/2018	0.09 (J)				0.04 (J)		0.04 (J)		<0.125
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			0.04 (J)			0.04 (J)	0.05 (J)		0.05 (J)
10/5/2018		0.05 (J)							
4/1/2019	0.0956 (J)								
4/2/2019				<0.125	0.0555 (J)		0.0586 (J)		0.052 (J)
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					0.0568 (J)		0.0634 (J)		0.0578 (J)
2/17/2020						0.0546 (J)		0.051 (J)	
2/18/2020			0.0571 (J)	0.0506 (J)					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
2/19/2020		0.06 (J)							
2/25/2020	0.0898 (J)								
2/26/2020					0.0647 (J)		<0.125		0.0523 (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			0.0733 (J)	0.0842 (J)		0.0634 (J)		0.0627 (J)	
4/6/2021	0.114	0.0794 (J)							
4/7/2021					0.0874 (J)		0.0872 (J)		0.0705 (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				0.0702 (J)	0.0989 (J)		0.0862 (J)		0.0882 (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		0.0648 (J)		<0.125		<0.125
8/29/2022									
8/30/2022				<0.125	<0.125		<0.125		<0.125
8/31/2022	<0.125							<0.125	
9/6/2022			<0.125			<0.125			
9/7/2022		<0.125							
1/24/2023									
1/25/2023	0.0614 (J)					<0.125			<0.125
1/30/2023									
1/31/2023									
2/1/2023		0.0758 (J)							
2/6/2023			0.0753 (J)		0.0991 (J)		<0.125	<0.125	
2/7/2023				<0.125					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 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-39 (bg)	GN-AP-MW-40 (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 4/2/2023 10:11 PM View: Appendix III - PLs
 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-39 (bg)	GN-AP-MW-40 (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				<0.125	<0.125	0.163	0.0651 (J)	
4/13/2021								<0.125
9/21/2021	0.181			0.0969 (J)	0.113	0.181	0.083 (J)	0.0656 (J)
9/22/2021								
9/27/2021		0.0914 (J)	0.1					
9/28/2021								
9/29/2021								
4/19/2022				<0.125	<0.125	0.107 (J)	<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)					
8/29/2022				0.0941 (J)	<0.125	0.0988 (J)	<0.125	<0.125
8/30/2022		<0.125	<0.125					
8/31/2022	0.089 (J)							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	0.101 (J)							
1/30/2023								
1/31/2023								
2/1/2023				<0.125	<0.125		<0.125	0.0603 (J)
2/6/2023		0.0676 (J)	0.0686 (J)					
2/7/2023						0.109 (J)		

Prediction Limit

Constituent: pH (pH) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-8
2/18/2020			7.64						
2/19/2020	7.52				7.8				
2/25/2020		7.64				8.38		6.89	7.39
2/26/2020							9.61		
7/22/2020								6.54	
7/23/2020	7.44								
7/27/2020			7.56		7.69				
7/28/2020		7.5				8.02			
7/29/2020							9.38		7.39
4/5/2021			7.66		7.67	7.76			
4/6/2021	7.51	7.64					9.59	6.67	7.23
4/7/2021									
4/12/2021									
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				8.2		6.48	
9/29/2021							9.33		
4/19/2022			7.63						
4/20/2022							9.25		
4/26/2022								6.77	
4/27/2022	7.07					8.17			
5/2/2022		7.49							7.44
5/3/2022					7.72				
8/29/2022									
8/30/2022			7.1		9.22 (o)	7.84	9.18	6.65	
8/31/2022		7.6							7.44
9/6/2022	7.35								
9/7/2022									
1/24/2023		7.6						6.84	
1/25/2023			7.69						7.45
1/30/2023						8.04	9.27		
1/31/2023	7.62								
2/1/2023									
2/6/2023									
2/7/2023					7.79				

Prediction Limit

Constituent: pH (pH) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-20	GN-AP-MW-10	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-13	GN-AP-MW-6	GN-AP-MW-7
3/28/2016									
3/29/2016	7.96								
3/30/2016		7.45	7.39	7.63	7.31	7.61	7.27	7.95	7.45
4/4/2016									
5/17/2016		7.68			7.35				
5/18/2016	7.88		7.34	7.64			7.37		
5/19/2016								7.88	7.5
5/23/2016						7.68			
7/11/2016					7.43				
7/12/2016									
7/13/2016	7.92	7.71	7.52	7.84				8.07	7.58
7/14/2016						7.79	7.51		
7/18/2016									
8/22/2016									
9/12/2016			7.39				7.39		
9/13/2016		7.53		7.69		7.69		8.04	7.53
9/14/2016	7.85				7.26				
11/14/2016	7.84		7.42	7.7			7.37		
11/15/2016		7.53				7.72		7.93	7.48
11/16/2016					7.19				
1/3/2017									
2/27/2017									
2/28/2017	7.81	7.58	7.46	7.79	7.23		7.32		
3/1/2017						7.55		7.89	7.46
5/22/2017		7.51		7.72					
5/23/2017						7.64		7.96	7.51
5/24/2017	7.65		7.39		7.26		7.44		
6/19/2017	7.79	7.53		7.73					
6/20/2017						7.5		7.87	7.52
6/21/2017			7.36		7.26		7.39		
8/14/2017	7.82	7.52	7.36	7.67			7.39		
8/15/2017					7.29	7.46		7.86	7.43
8/16/2017									
1/9/2018	7.87		7.45	7.82		7.71	7.5		
1/10/2018		7.64			7.17			7.98	7.57
4/16/2018		7.54	7.36	7.71					
4/17/2018						7.29		7.82	7.5
4/19/2018	7.85				7.27		7.38		
10/1/2018	7.82					7.68			
10/2/2018		7.54							
10/3/2018					7.09				
10/4/2018			7.37	7.71				7.87	7.49
10/5/2018							7.25		
4/1/2019									
4/2/2019					7.34	7.47		7.73	7.24
4/3/2019	7.45	7.6	7.37	7.75			7.41		
5/7/2019									
9/16/2019		7.6	7.44	7.71					
9/17/2019					7.65		7.45		
9/18/2019	7.9					7.53		7.85	7.52
10/8/2019		7.59		7.74					
2/17/2020		7.61		7.74					

Prediction Limit

Constituent: pH (pH) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-20	GN-AP-MW-10	GN-AP-MW-12	GN-AP-MW-11	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-13	GN-AP-MW-6	GN-AP-MW-7
2/18/2020			7.42		7.34				
2/19/2020							7.42		
2/25/2020	7.9								
2/26/2020						7.47		7.8	7.51
7/22/2020	7.84	7.64		7.76					
7/23/2020									
7/27/2020			7.47		7.3		7.48		
7/28/2020						7.7		7.62	7.32
7/29/2020									
4/5/2021		6.93	6.88	7.63	7.33				
4/6/2021							7.5		
4/7/2021						7.47		7.02	7.51
4/12/2021	7.96								
4/13/2021									
9/21/2021		7.02		7.64					
9/22/2021			7.48				7.59		
9/27/2021					7.37	7.55		7.92	7.74
9/28/2021	7.76								
9/29/2021									
4/19/2022									
4/20/2022	7.83								
4/26/2022									
4/27/2022									
5/2/2022		7.12		7.16	6.68		7.46		
5/3/2022			7.39			7.01		7.63	7.53
8/29/2022									
8/30/2022	7.73				6.85	7.47		7.6	7.57
8/31/2022		7.25							
9/6/2022			7.39	7.67					
9/7/2022							7.52		
1/24/2023	7.98								
1/25/2023				7.81					7.61
1/30/2023									
1/31/2023									
2/1/2023							7.55		
2/6/2023		7.6	7.45			7.52		7.43	
2/7/2023					7.3				

Prediction Limit

Constituent: pH (pH) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-40 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-41 (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: Sulfate (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
3/28/2016	147	66.6	16.8	2.09	7.57				
3/29/2016						146	254	163	556
3/30/2016									
4/4/2016									
5/17/2016		63.9			5.12	140	251	159	
5/18/2016			14.9	1.92					559
5/19/2016	224								
5/23/2016									
7/11/2016	133	57.6		3.41	4.63				
7/12/2016									
7/13/2016			24.2						560
7/14/2016						135	246		
7/18/2016								154	
8/22/2016	134								
9/12/2016									
9/13/2016		82.8	16.8			129	238		
9/14/2016	130			4.94	3.19			143	553
11/14/2016						131		151	551
11/15/2016	132	118							
11/16/2016			21.7	10.5	3.71		234		
1/3/2017	143								
2/27/2017	130	62 (J)	23						
2/28/2017						130	240	140	560
3/1/2017				5.1	3.4 (J)				
5/22/2017	120		26						
5/23/2017				2.3 (J)	2 (J)				
5/24/2017		56				130	230	150	530
6/19/2017				2.1 (J)	2.5 (J)	110	200	140	510
6/20/2017	120								
6/21/2017		75	20						
8/14/2017	140		22			140	250	150	540
8/15/2017		67		1.7 (J)	2.4 (J)				
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	150	53	24	<2	1.9 (J)	130	250	140	520
10/1/2018						80	280	140	590
10/2/2018			24						
10/3/2018				1.7 (J)	2.7 (J)				
10/4/2018									
10/5/2018	260	160							
4/1/2019			24.4	1.87					
4/2/2019					3.24				
4/3/2019	339	75.2				161	346	168	577
5/7/2019	351								
9/16/2019						147			
9/17/2019		131			4.51		322		
9/18/2019	283		23.6	2.39				173	526
2/17/2020									
2/18/2020			25.6						
2/19/2020		110			3.73				
2/25/2020	326					161		210	674

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/2/2023 10:11 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
2/26/2020							351		
7/22/2020								180	568
7/23/2020		97.9							
7/27/2020			23.7		4.11				
7/28/2020	239					143			
7/29/2020							309		
4/5/2021			23.1		3.2	172			
4/6/2021	230	77.5					421	181	
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					188		205	583
9/29/2021							425		
4/19/2022			27.6						
4/20/2022							444		575
4/26/2022								216	
4/27/2022		118				191			
5/2/2022	224								
5/3/2022					2.16				
8/29/2022									
8/30/2022			27.5		2.73	190	415	203	538
8/31/2022	225								
9/6/2022		148							
9/7/2022									
1/24/2023	219							212	554
1/25/2023			26.6						
1/30/2023						186	444		
1/31/2023		104							
2/1/2023									
2/6/2023									
2/7/2023					2.6				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/2/2023 10:12 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
3/28/2016									
3/29/2016	29.9								
3/30/2016		<2	85	24.9	146	32.2	204	9.91	215
4/4/2016									
5/17/2016				25.1				7.27	
5/18/2016		0.492 (J)	83.8			30.8			
5/19/2016							206		204
5/23/2016	26.5				160				
7/11/2016				33.2					
7/12/2016	24.3								
7/13/2016			86.2			32.4	176	4.11	155
7/14/2016		0.38 (J)			173				
7/18/2016									
8/22/2016									
9/12/2016		<2	91.8						
9/13/2016	17.8				173	30.9	151	2.86	89.8
9/14/2016				35.5					
11/14/2016		<2	91.2			32.1			
11/15/2016	10.1				177		161	2.16	176
11/16/2016				38.5					
1/3/2017									
2/27/2017									
2/28/2017	5.8	<2	86	32		32		3.7 (J)	
3/1/2017					160		160		200
5/22/2017						32		2.6 (J)	
5/23/2017					160		160		200
5/24/2017	11	<2	92	30					
6/19/2017						33		2.8 (J)	
6/20/2017	7.9				150		160		180
6/21/2017		<2	88	25					
8/14/2017		<2	100			34		3.4 (J)	
8/15/2017	5			24	170		160		210
8/16/2017									
4/16/2018			91			33		3.4 (J)	
4/17/2018	2.9 (J)				130		160		170
4/19/2018		<2		25					
10/1/2018	<2				140				
10/2/2018								2.6 (J)	
10/3/2018				37					
10/4/2018			76			37	150		200
10/5/2018		<2							
4/1/2019	1.8								
4/2/2019				22.4	122		198		186
4/3/2019		0.925 (J)	102			44.2		3.85	
5/7/2019									
9/16/2019			108			49.2		3.39	
9/17/2019	4.62	<2		39.8					
9/18/2019					167		177		199
2/17/2020						45.2		3.56	
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 4/2/2023 10:12 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
2/26/2020					39.8		178		207
7/22/2020						45.3		3.65	
7/23/2020									
7/27/2020		<2	108	21.7					
7/28/2020					152		189		160
7/29/2020	3.25								
4/5/2021			96.8	15.6		50.1		11.4	
4/6/2021	3.29	<2							
4/7/2021					38.7		151		164
4/12/2021									
4/13/2021									
9/21/2021	1.95					55.4		5.56	
9/22/2021		0.521 (J)	131						
9/27/2021				14.3	33.5		156		143
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	3.02	<2		11.1		58.3		4.75	
5/3/2022			97		34		115		107
8/29/2022									
8/30/2022				12.1	33.299999		123		212
8/31/2022	1.14 (J)							3.78	
9/6/2022			104			61.900002			
9/7/2022		0.641 (J)							
1/24/2023									
1/25/2023	1.96 (J)					57.799999			110
1/30/2023									
1/31/2023									
2/1/2023		0.758 (J)							
2/6/2023			107		21.5		103	3.9	
2/7/2023				11.2					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/2/2023 10:12 PM View: Appendix III - PLs
 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-38 (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	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 4/2/2023 10:12 PM View: Appendix III - PLs
 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-38 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-39 (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				2.99	12.6	7.23	14.6	
4/13/2021								4.92
9/21/2021	18.4			1.44	5.49	1.31	14.5	3.27
9/22/2021								
9/27/2021		162	122					
9/28/2021								
9/29/2021								
4/19/2022				1.37 (J)	2.72	0.934 (J)	11.4	2.25
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	17.9							
5/3/2022		131	74.2					
8/29/2022				2.24	3.16	<2	12.4	2.99
8/30/2022		129	77.900002					
8/31/2022	18.700001							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	18.6							
1/30/2023								
1/31/2023								
2/1/2023				1.82 (J)	1.28 (J)	0.892 (J)		2.27
2/6/2023		113	67.199997					
2/7/2023							14.2	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/2/2023 10:12 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
3/28/2016	308	426	213	138	147				
3/29/2016						277	451	560	862
3/30/2016									
4/4/2016									
5/17/2016	314				140	261	432	540	
5/18/2016			206	156					882
5/19/2016		496							
5/23/2016									
7/11/2016	319	359		167	146				
7/12/2016									
7/13/2016			225						874
7/14/2016						255	434		
7/18/2016								546	
8/22/2016		349							
9/12/2016									
9/13/2016	354		212			264	432		
9/14/2016		340		166	141			542	908
11/14/2016						249		514	804
11/15/2016	452	324							
11/16/2016			224	192	157		412		
1/3/2017		348							
2/27/2017	339	347	223						
2/28/2017						251	434	536	930
3/1/2017				186	148				
5/22/2017		348	219						
5/23/2017				158	141				
5/24/2017	316					257	425	536	886
6/19/2017				156	126	258	424	598	924
6/20/2017		343							
6/21/2017	376		164						
8/14/2017		332	232			263	428	550	872
8/15/2017	340			168	146				
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	304	369	218	154	143	247	455	540	880
10/1/2018						252	492	514	866
10/2/2018			212						
10/3/2018				156	148				
10/4/2018									
10/5/2018	544	762							
4/1/2019			225	160					
4/2/2019					140				
4/3/2019	336	810				273	536	560	910
5/7/2019		810							
9/16/2019						293			
9/17/2019	439				145		592		
9/18/2019		704	222	154				592	908
10/8/2019									
2/17/2020									
2/18/2020			215						
2/19/2020	363				149				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/2/2023 10:12 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
2/25/2020		674				284		578	930
2/26/2020							561		
7/22/2020								594	934
7/23/2020	399								
7/27/2020			223		154				
7/28/2020		606				284			
7/29/2020							566		
4/5/2021			220		136	333			
4/6/2021	342	590					772	596	
4/7/2021									
4/12/2021									926
4/13/2021									
9/21/2021									
9/22/2021	394		218						
9/27/2021					132				
9/28/2021		566				354		608	922
9/29/2021							842		
4/19/2022			225						
4/20/2022							967		946
4/26/2022								596	
4/27/2022	417					369			
5/2/2022		574							
5/3/2022					141				
8/29/2022									
8/30/2022			238		151	425	1420	614	930
8/31/2022		582							
9/6/2022	462								
9/7/2022									
1/24/2023		562						632	924
1/25/2023			225						
1/30/2023						528	1540		
1/31/2023	436								
2/1/2023									
2/6/2023									
2/7/2023					141				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/2/2023 10:12 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
3/28/2016									
3/29/2016	290								
3/30/2016		202	353	339	398	184	430	195	472
4/4/2016									
5/17/2016				269				189	
5/18/2016		207	343			186			
5/19/2016							422		458
5/23/2016	312				411				
7/11/2016				305					
7/12/2016	292								
7/13/2016			352			192	391	179	412
7/14/2016		203			424				
7/18/2016									
8/22/2016									
9/12/2016		205	346						
9/13/2016	276				426	187	378	168	312
9/14/2016				326					
11/14/2016		197	322			185			
11/15/2016	262				412		354	180	426
11/16/2016				338					
1/3/2017									
2/27/2017									
2/28/2017	290	221	353	303		198		180	
3/1/2017					452		389		487
5/22/2017						185		178	
5/23/2017					448		375		487
5/24/2017	296	204	234	312					
6/19/2017						189		165	
6/20/2017	273				437		416		421
6/21/2017		218	372	241					
8/14/2017		217	372			135		185	
8/15/2017	279			281	440		394		490
8/16/2017									
4/16/2018			365			174		181	
4/17/2018	250				454		437		464
4/19/2018		201		282					
10/1/2018	246				449				
10/2/2018								161	
10/3/2018				354					
10/4/2018			372			208	418		504
10/5/2018		208							
4/1/2019	268								
4/2/2019				270	390		447		428
4/3/2019		201	372			200		177	
5/7/2019									
9/16/2019			377			207		168	
9/17/2019	257	204		332					
9/18/2019					434		445		489
10/8/2019						207 (D)		172	
2/17/2020						209		170	
2/18/2020			378	274					
2/19/2020		206							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/2/2023 10:12 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
2/25/2020	252								
2/26/2020					228		455		490
7/22/2020						216		175	
7/23/2020									
7/27/2020		202	378	284					
7/28/2020					406		485		434
7/29/2020	253								
4/5/2021			372	248		217		184	
4/6/2021	256	193							
4/7/2021					256		436		436
4/12/2021									
4/13/2021									
9/21/2021	256					217		174	
9/22/2021		210	375						
9/27/2021				237	240		415		379
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	237	201		248		234		173	
5/3/2022			371		239		376		329
8/29/2022									
8/30/2022				240	237		400		319
8/31/2022	246							174	
9/6/2022			376			226			
9/7/2022		192							
1/24/2023									
1/25/2023	227					234			345
1/30/2023									
1/31/2023									
2/1/2023		181							
2/6/2023			391		222		374	183	
2/7/2023				247					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/2/2023 10:12 PM View: Appendix III - PLs
 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-38 (bg)	GN-AP-MW-41 (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	118	129	126	
4/13/2021								77.3
9/21/2021	205			139	111	115	148	83.3
9/22/2021								
9/27/2021		443	402					
9/28/2021								
9/29/2021								
4/19/2022				144	107	122	138	67.3
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	209							
5/3/2022		388	308					
8/29/2022				136	94.699997	98	133	76
8/30/2022		390	296					
8/31/2022	210							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	207							
1/30/2023								
1/31/2023								
2/1/2023					98.699997	104	122	66
2/6/2023		376	302					
2/7/2023				145				

FIGURE E.

Appendix III - Trend Tests - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/20/2023, 2:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.0332	153	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.02888	161	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.2949	136	98	Yes	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-16	0.02048	86	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.05263	82	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-20	0.153	127	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.282	101	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.815	108	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	4.462	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	22.68	137	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.716	115	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1861	117	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	10.24	150	98	Yes	23	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	2.587	163	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	9.625	160	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.3835	136	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5286	116	81	Yes	20	5	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-20	0.4718	126	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.4398	104	81	Yes	20	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.05484	-95	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.366	156	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	3.714	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	8.351	87	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	31.59	114	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-18	9.534	85	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.008	108	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-21.73	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	1.789	130	81	Yes	20	5	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	6.713	146	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	5.246	110	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-14	16.7	84	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	16.49	111	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	64.96	134	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-18	11.94	105	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-20	9.105	89	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-11.41	-85	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-8.37	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	4.882	115	81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/20/2023, 2:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.0332	153	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.02888	161	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.2949	136	98	Yes	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-16	0.02048	86	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-17	0.08156	70	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.05263	82	81	Yes	20	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	0.153	127	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-21	-0.004651	-6	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-22	-0.05112	-32	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-3 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-5	-0.2231	-73	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-6	-0.07351	-44	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-7	-0.02634	-19	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-10	0.3513	52	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.282	101	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.815	108	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-13	0.08085	8	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-14	-0.2051	-4	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-15R	9.201	89	98	No	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	4.462	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	22.68	137	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.716	115	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-19	0.04729	12	81	No	20	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	3.992	75	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-21	3.345	60	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-22	2.576	49	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-3 (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-4	0.472	38	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-5	-1.769	-34	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-6	3.119	72	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-7	-1.184	-28	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-8	-0.03467	-4	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1861	117	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-12	-0.1456	-57	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	10.24	150	98	Yes	23	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	2.587	163	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	9.625	160	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.3835	136	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5286	116	81	Yes	20	5	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	0.4718	126	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-21	0.5772	14	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-22	0	1	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-3 (bg)	-0.03061	-49	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-4	-1.991	-71	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-5	-2.778	-43	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-6	3.332	28	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-7	0.3098	16	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.4398	104	81	Yes	20	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.05484	-95	-87	Yes	21	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)	-0.002517	-17	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.366	156	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	3.714	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-14	7.462	75	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-15R	15.8	76	98	No	23	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	8.351	87	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	31.59	114	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-18	9.534	85	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.008	108	81	Yes	20	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	2.07	13	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-21	-0.7912	-6	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-22	-10.48	-73	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-3 (bg)	-0.2392	-58	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-21.73	-120	-81	Yes	20	0	n/a	n/a	0.01	NP

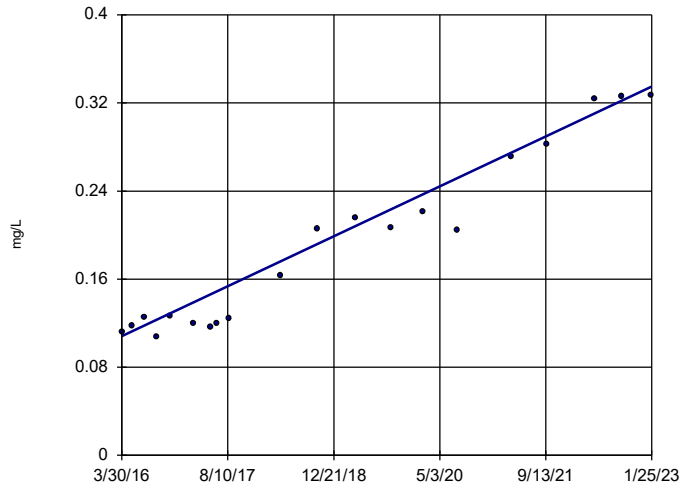
Appendix III - Trend Tests - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/20/2023, 2:45 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	GN-AP-MW-6	-6.963	-77	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-7	-5.18	-41	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	1.789	130	81	Yes	20	5	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	6.713	146	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	5.246	110	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-14	16.7	84	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-15R	33.14	63	98	No	23	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	16.49	111	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	64.96	134	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-18	11.94	105	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-19	1.273	51	81	No	20	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	9.105	89	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-21	-1.8	-6	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-22	-6.919	-23	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-3 (bg)	0	-7	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-11.41	-85	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-5	-26.16	-72	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-6	3.313	18	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-7	-11.44	-30	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-8.37	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	4.882	115	81	Yes	20	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GN-AP-MW-11

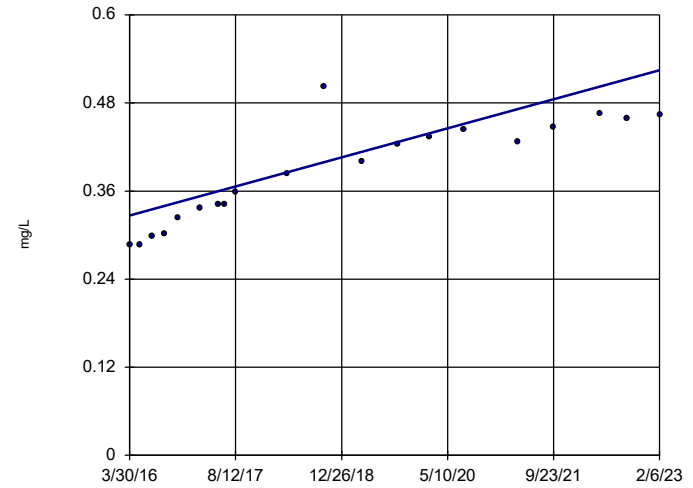


n = 20
 Slope = 0.0332
 units per year.
 Mann-Kendall
 statistic = 153
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12

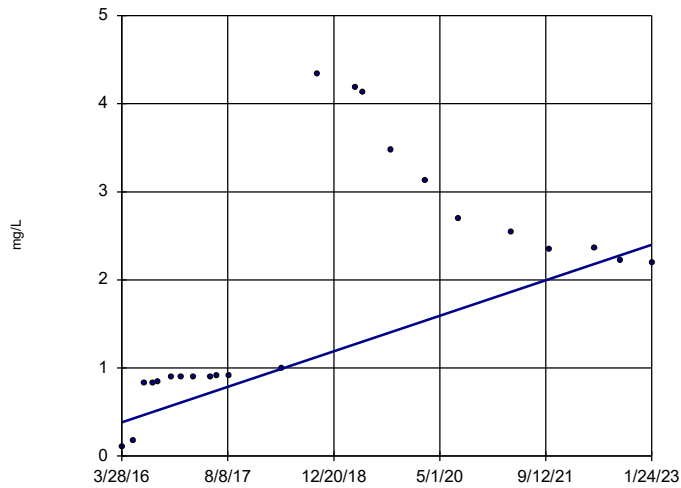


n = 20
 Slope = 0.02888
 units per year.
 Mann-Kendall
 statistic = 161
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-15R

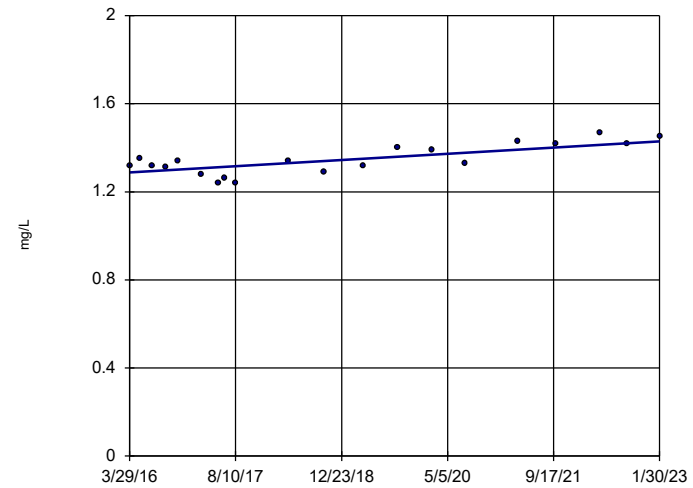


n = 23
 Slope = 0.2949
 units per year.
 Mann-Kendall
 statistic = 136
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-16

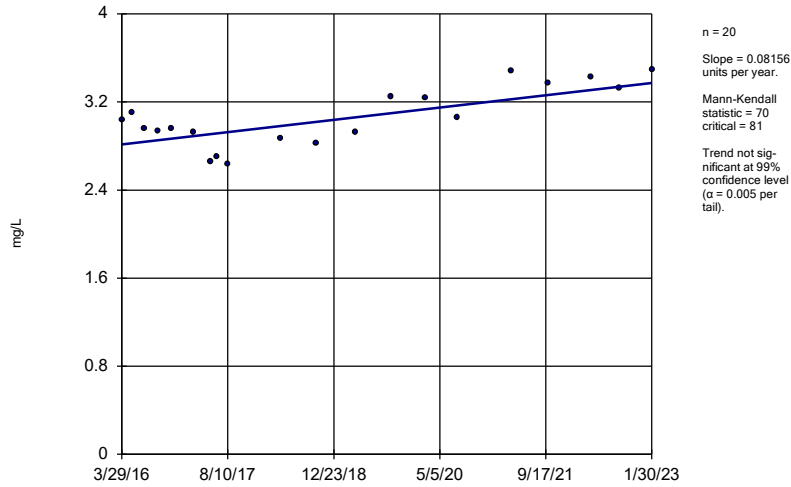


n = 20
 Slope = 0.02048
 units per year.
 Mann-Kendall
 statistic = 86
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

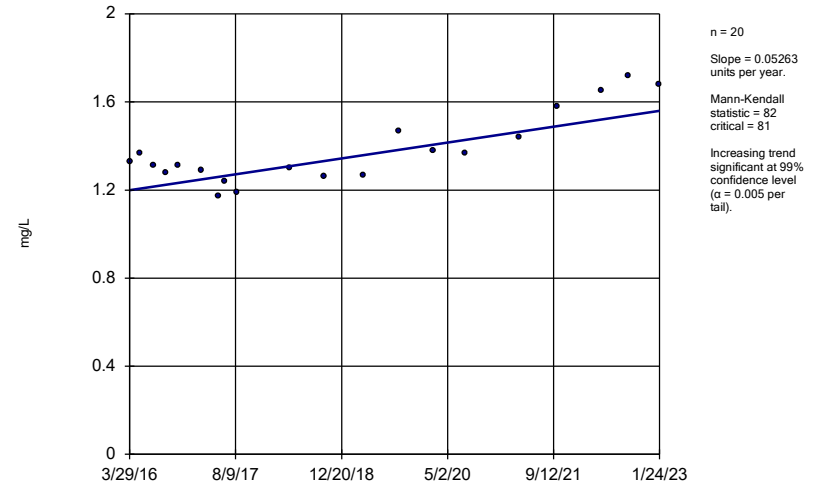
GN-AP-MW-17



Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

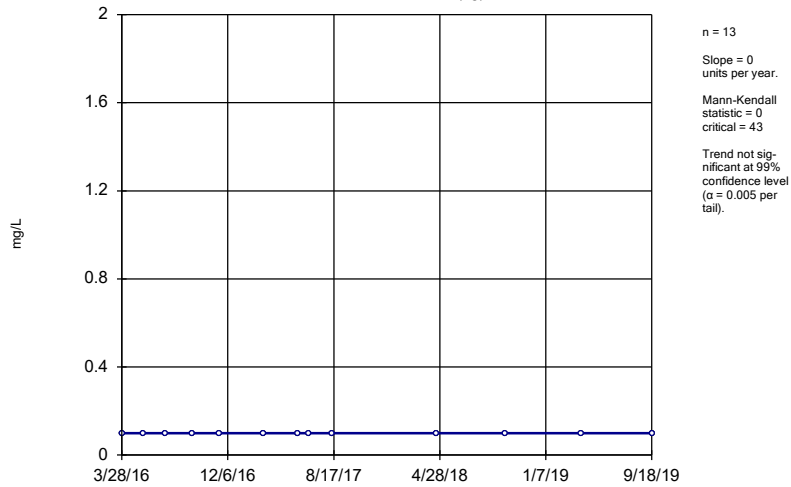
GN-AP-MW-18



Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

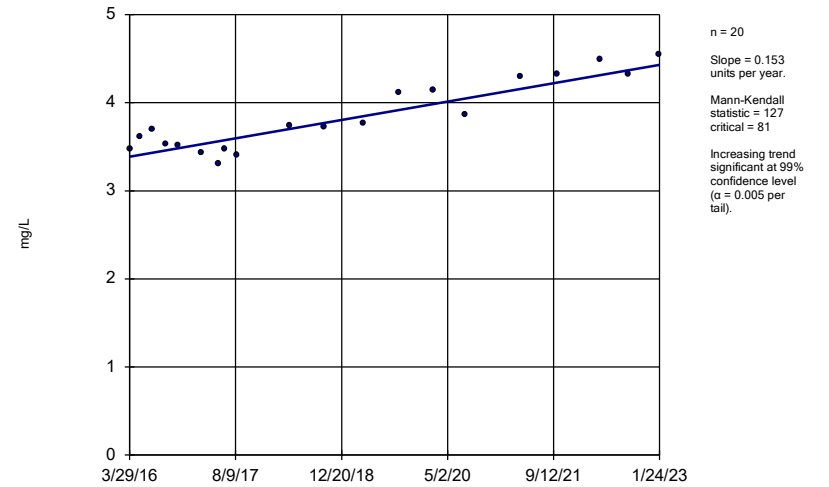
GN-AP-MW-2 (bg)



Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

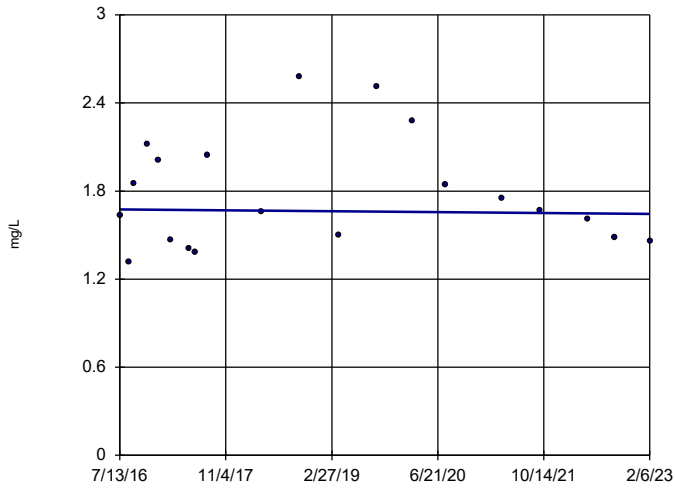
GN-AP-MW-20



Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-21

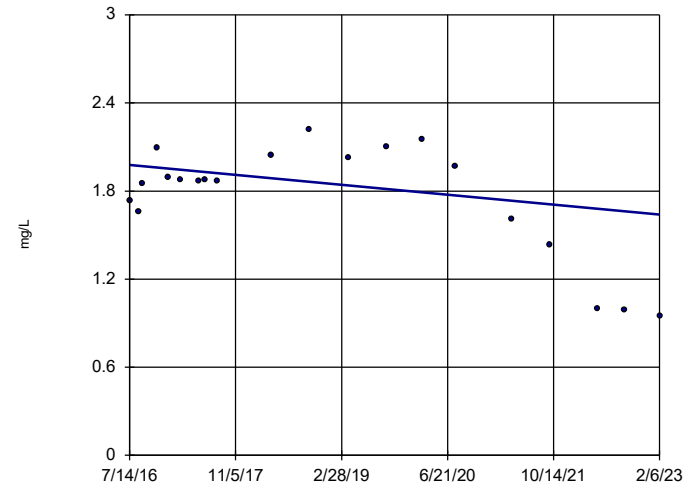


n = 20
 Slope = -0.004651
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-22

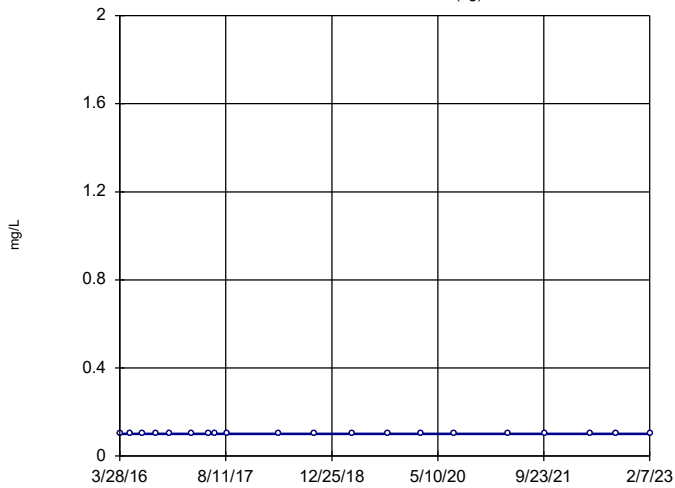


n = 20
 Slope = -0.05112
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

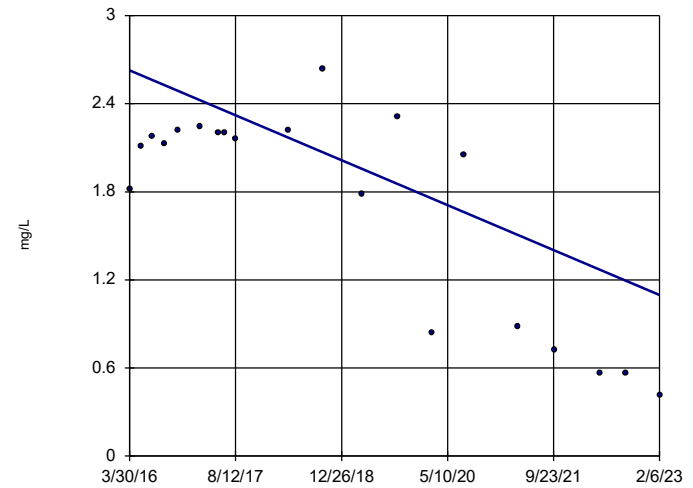


n = 20
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-5

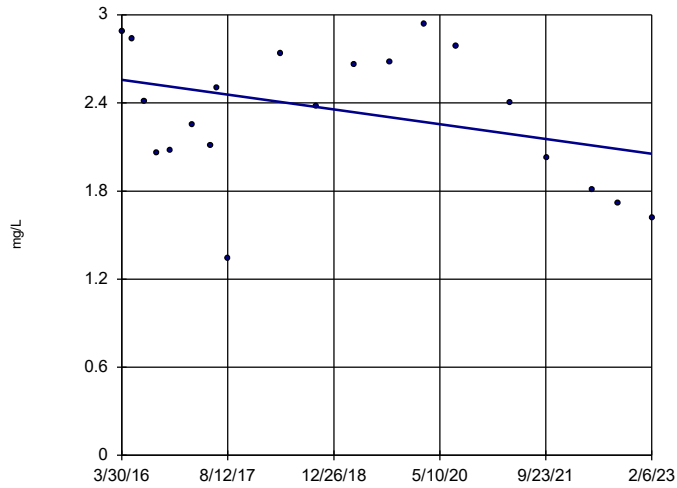


n = 20
 Slope = -0.2231
 units per year.
 Mann-Kendall
 statistic = -73
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-6

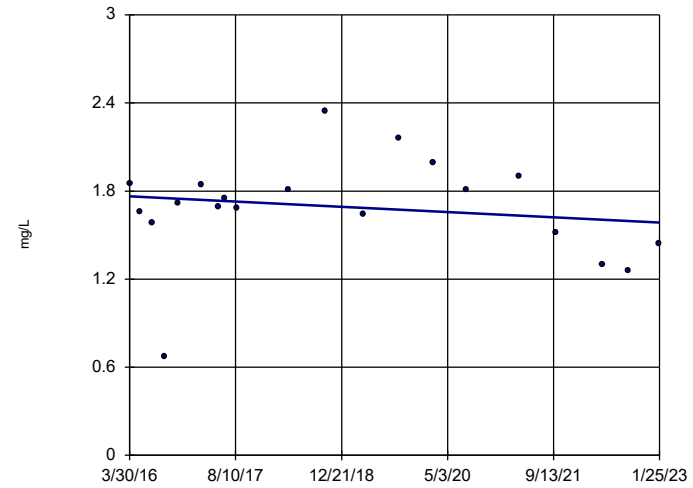


n = 20
 Slope = -0.07351
 units per year.
 Mann-Kendall
 statistic = -44
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-7

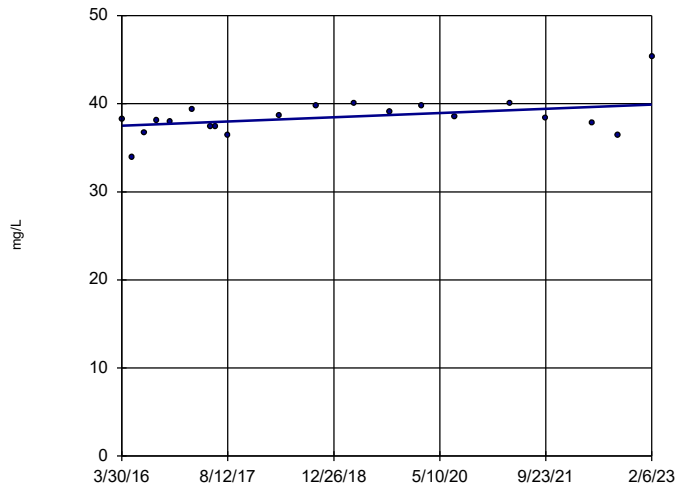


n = 20
 Slope = -0.02634
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-10

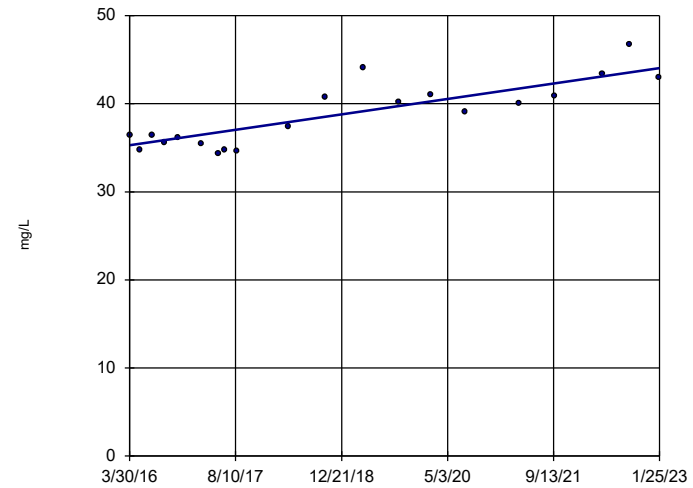


n = 20
 Slope = 0.3513
 units per year.
 Mann-Kendall
 statistic = 52
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-11

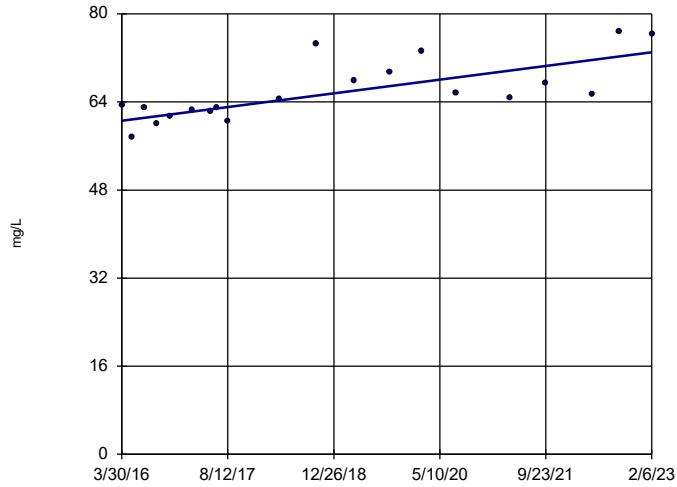


n = 20
 Slope = 1.282
 units per year.
 Mann-Kendall
 statistic = 101
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12

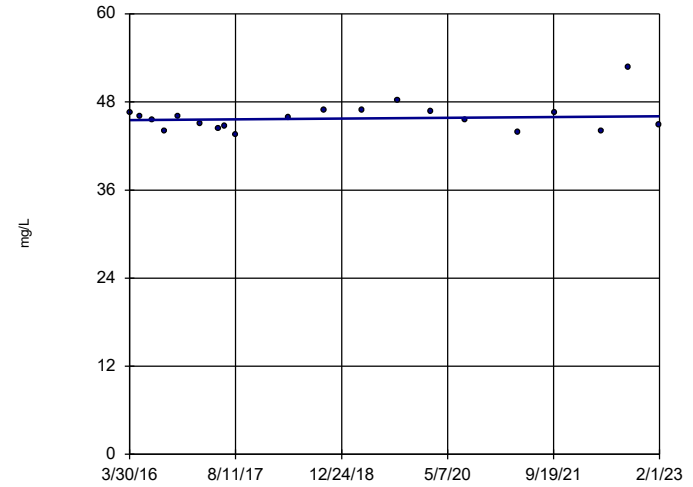


n = 20
 Slope = 1.815
 units per year.
 Mann-Kendall
 statistic = 108
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-13

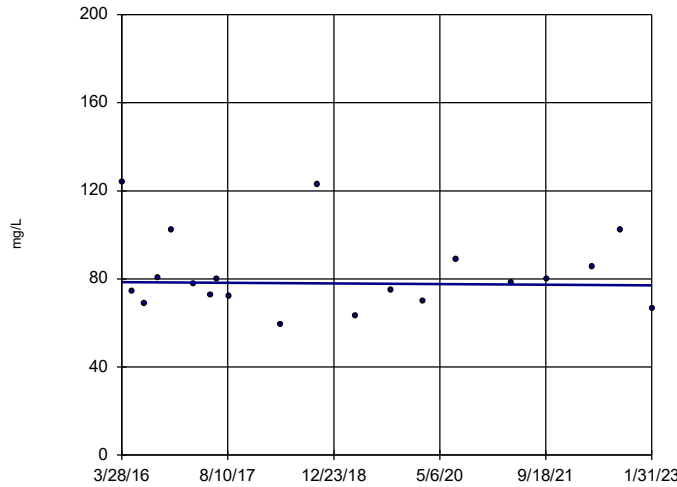


n = 20
 Slope = 0.08085
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-14

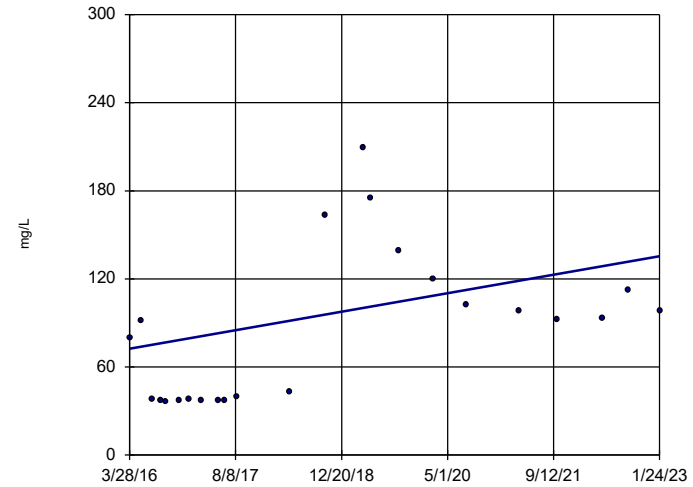


n = 20
 Slope = -0.2051
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-15R

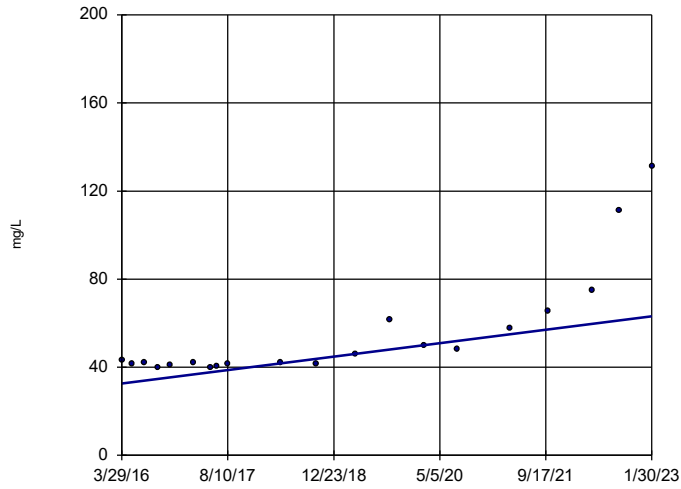


n = 23
 Slope = 9.201
 units per year.
 Mann-Kendall
 statistic = 89
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-16

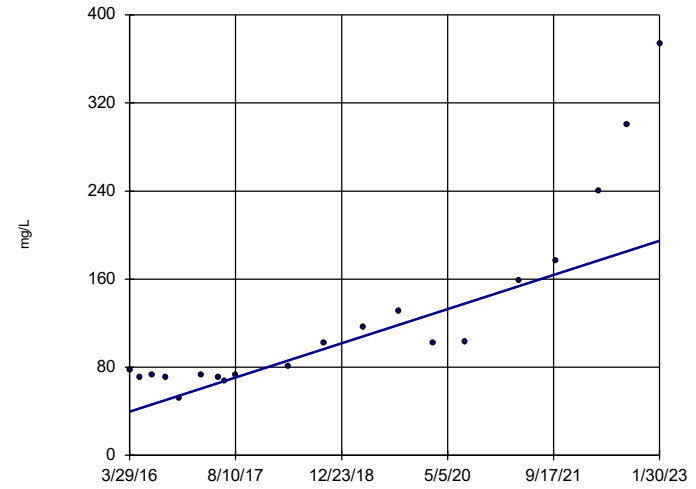


n = 20
 Slope = 4.462
 units per year.
 Mann-Kendall
 statistic = 124
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17

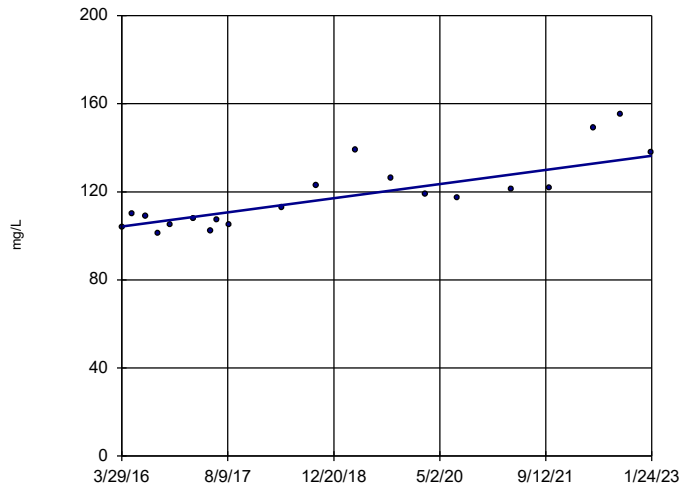


n = 20
 Slope = 22.68
 units per year.
 Mann-Kendall
 statistic = 137
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-18

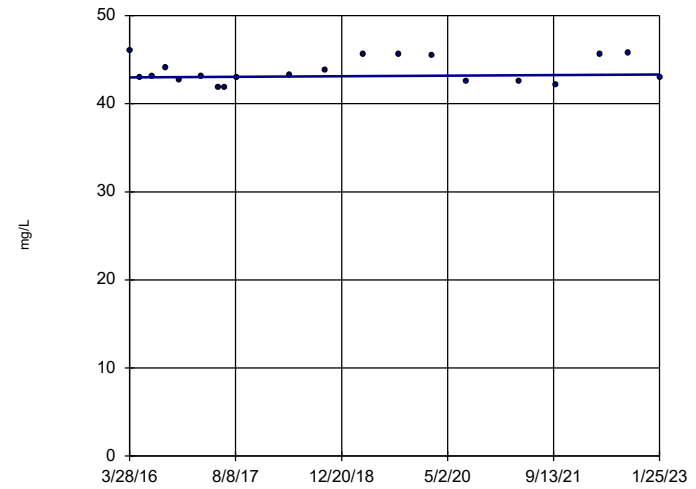


n = 20
 Slope = 4.716
 units per year.
 Mann-Kendall
 statistic = 115
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-19

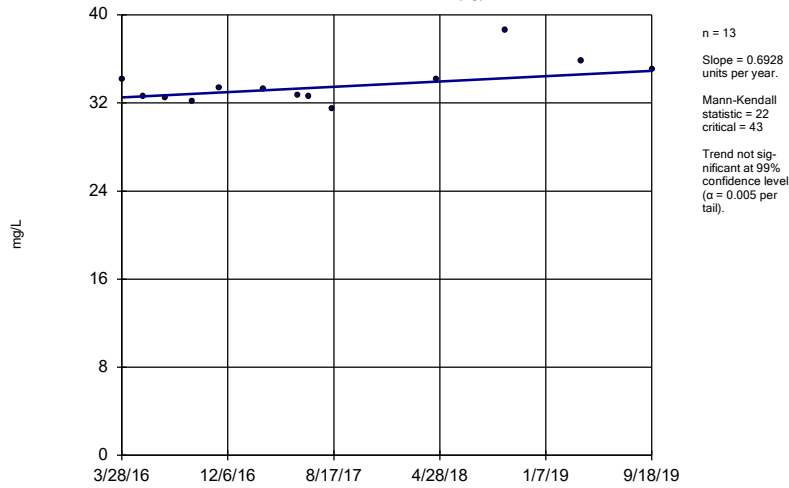


n = 20
 Slope = 0.04729
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

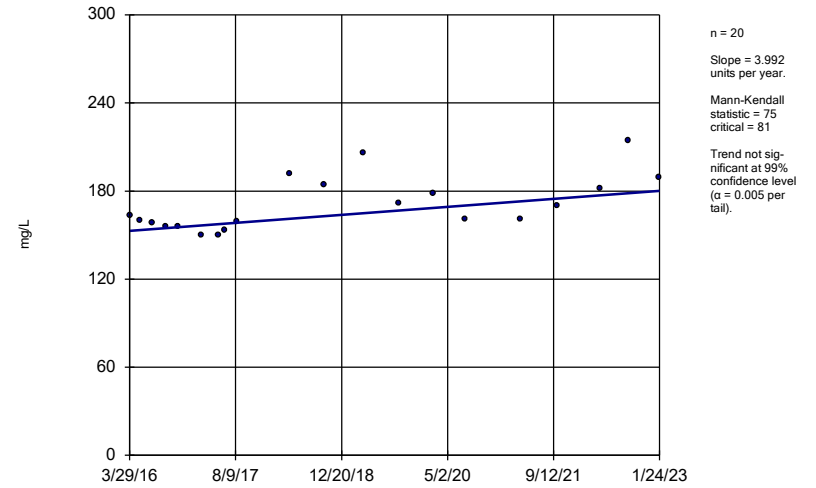
GN-AP-MW-2 (bg)



Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

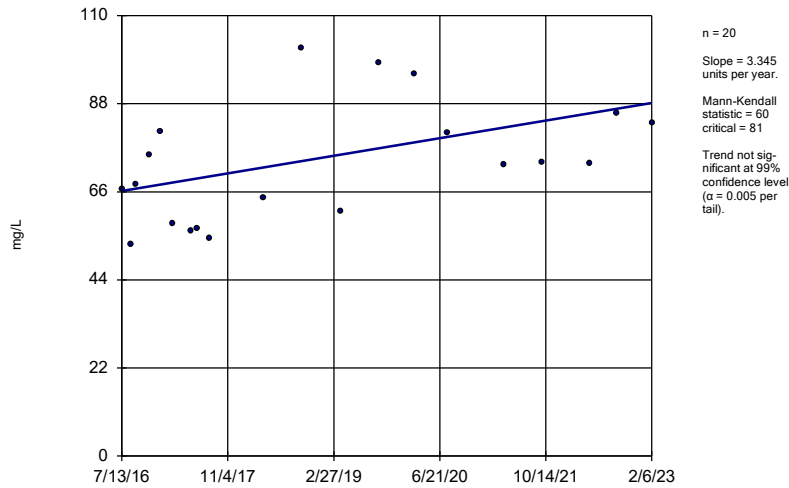
GN-AP-MW-20



Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

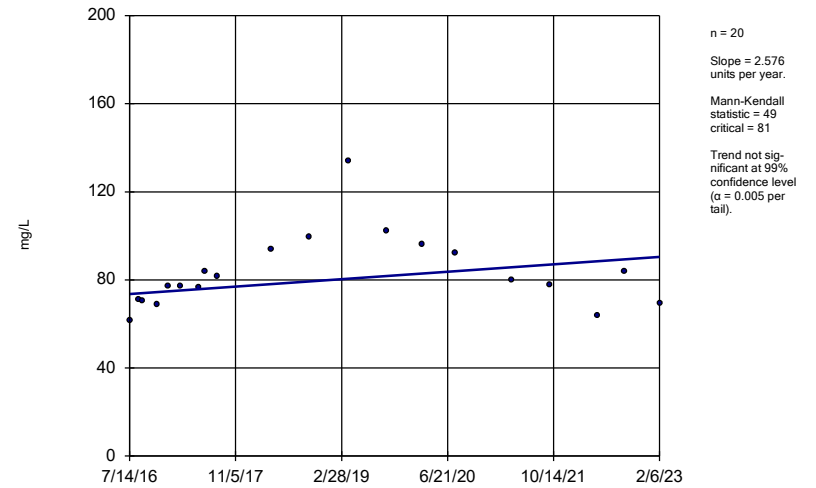
GN-AP-MW-21



Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

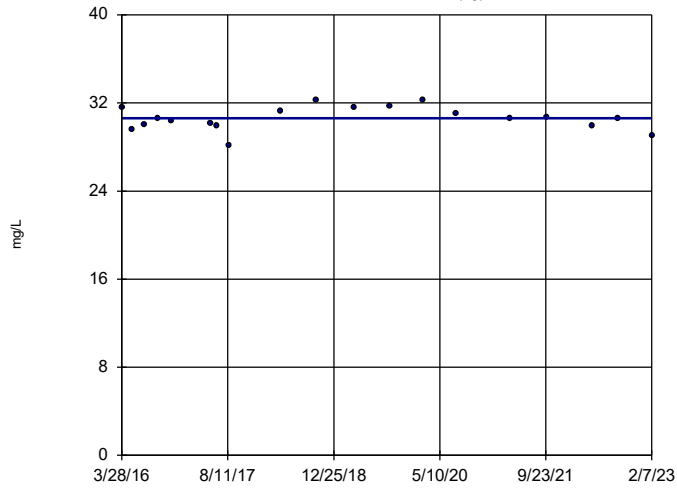
GN-AP-MW-22



Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

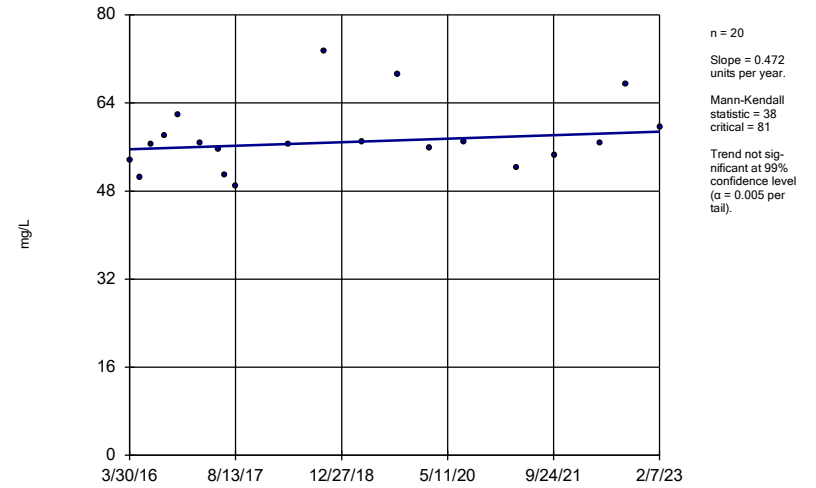
GN-AP-MW-3 (bg)



Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

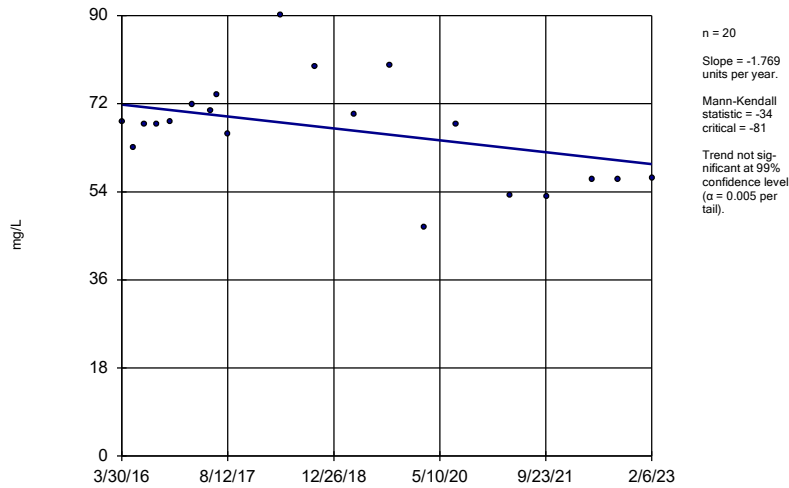
GN-AP-MW-4



Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

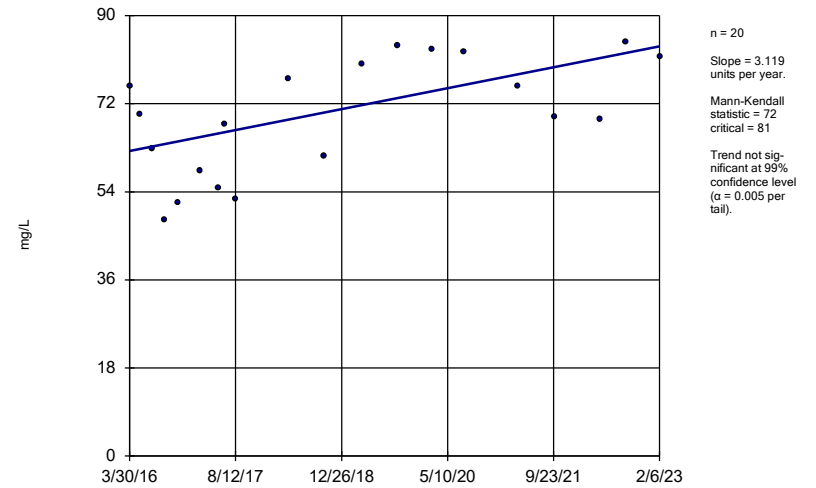
GN-AP-MW-5



Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

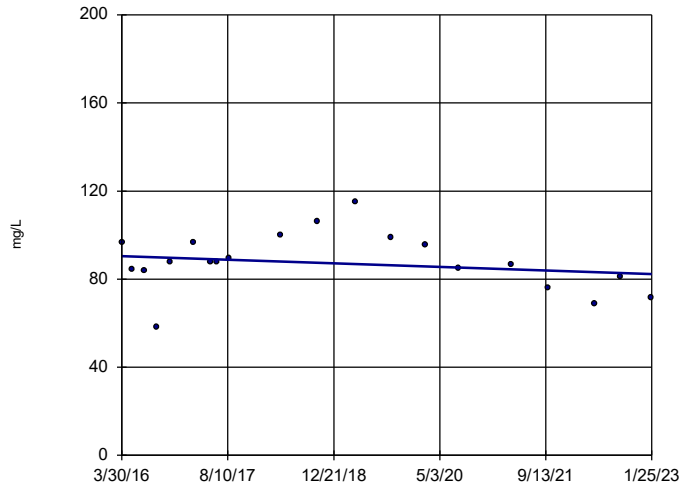
GN-AP-MW-6



Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-7

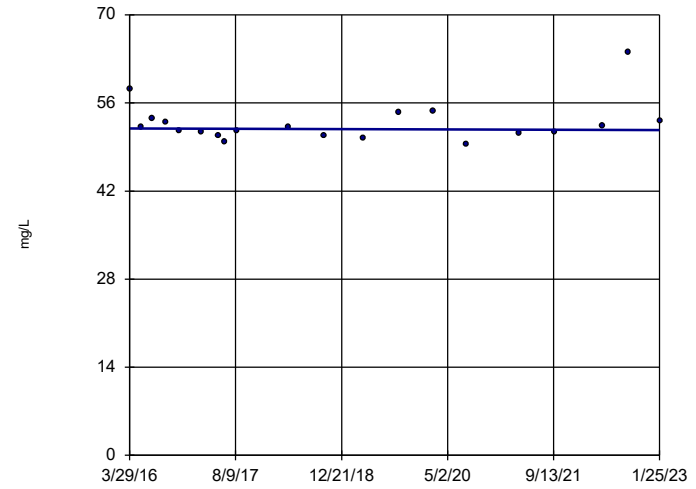


n = 20
 Slope = -1.184
 units per year.
 Mann-Kendall
 statistic = -28
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-8

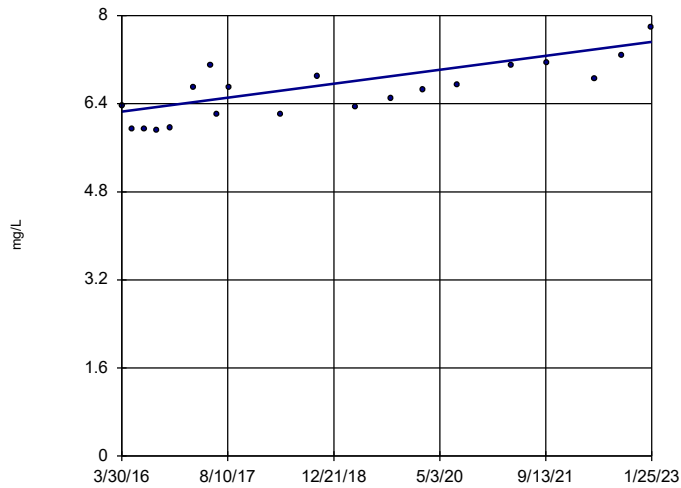


n = 20
 Slope = -0.03467
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-11

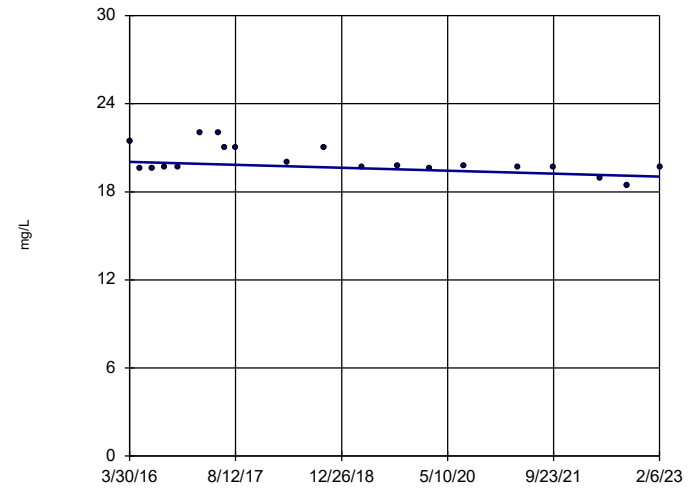


n = 20
 Slope = 0.1861
 units per year.
 Mann-Kendall
 statistic = 117
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12

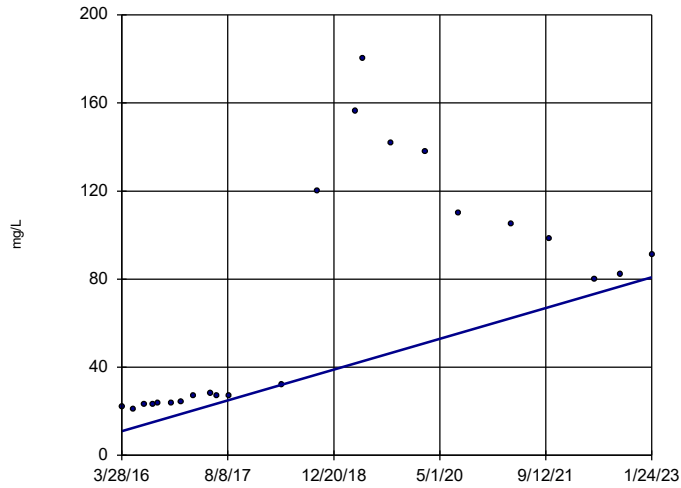


n = 20
 Slope = -0.1456
 units per year.
 Mann-Kendall
 statistic = -57
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

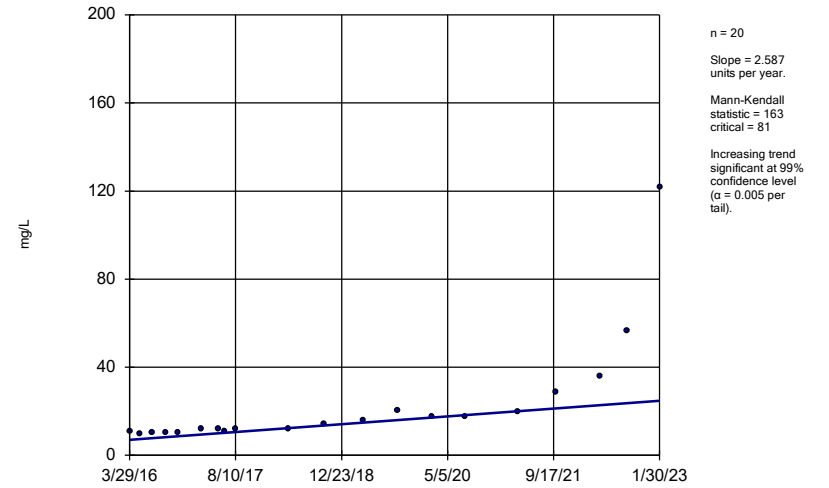
GN-AP-MW-15R



Constituent: Chloride Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

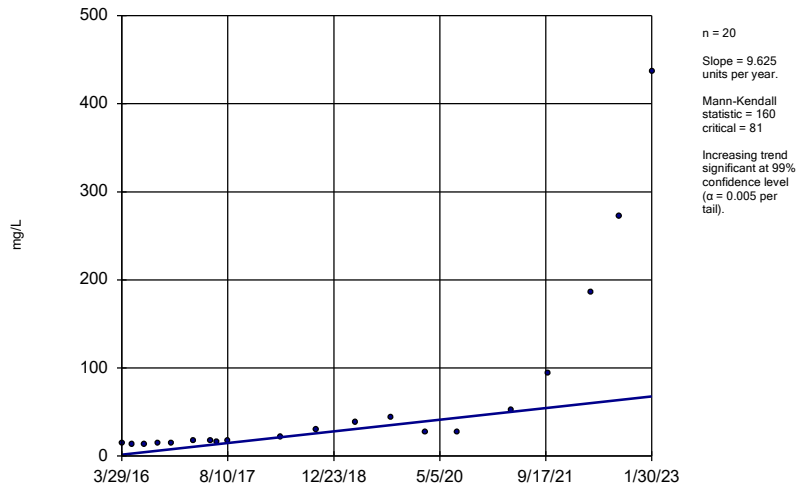
GN-AP-MW-16



Constituent: Chloride Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

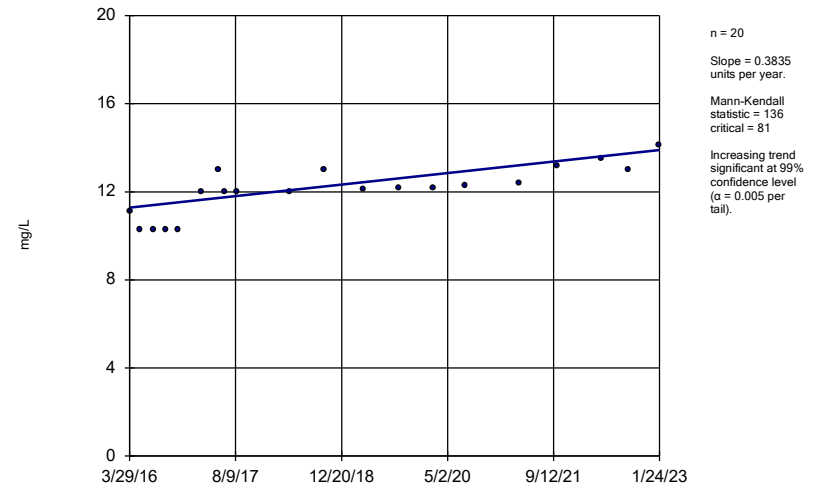
GN-AP-MW-17



Constituent: Chloride Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

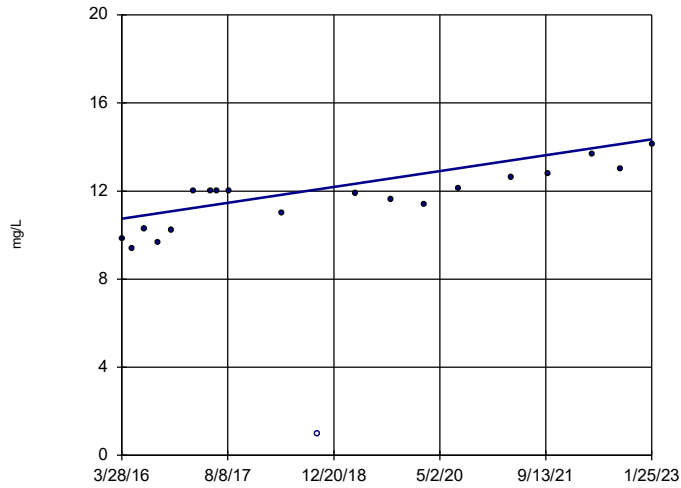
GN-AP-MW-18



Constituent: Chloride Analysis Run 4/20/2023 2:40 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

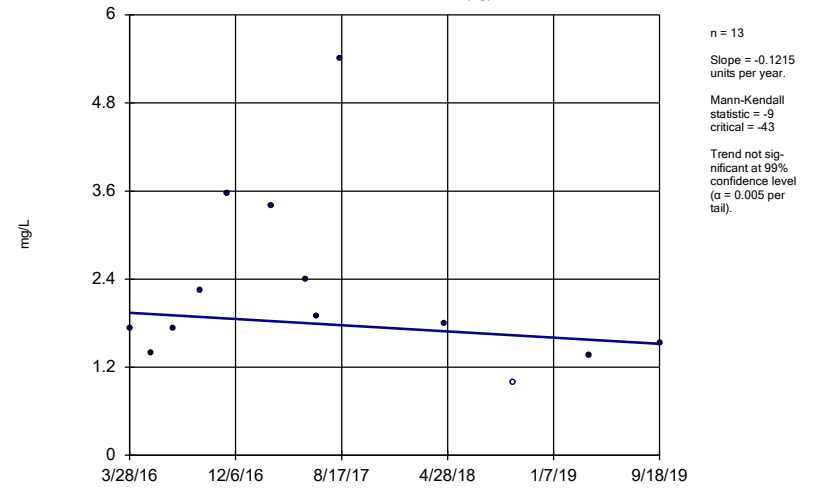
GN-AP-MW-19



Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

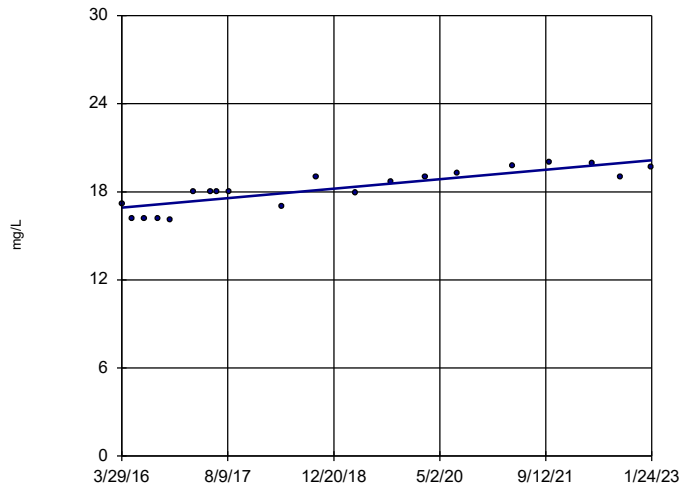
GN-AP-MW-2 (bg)



Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

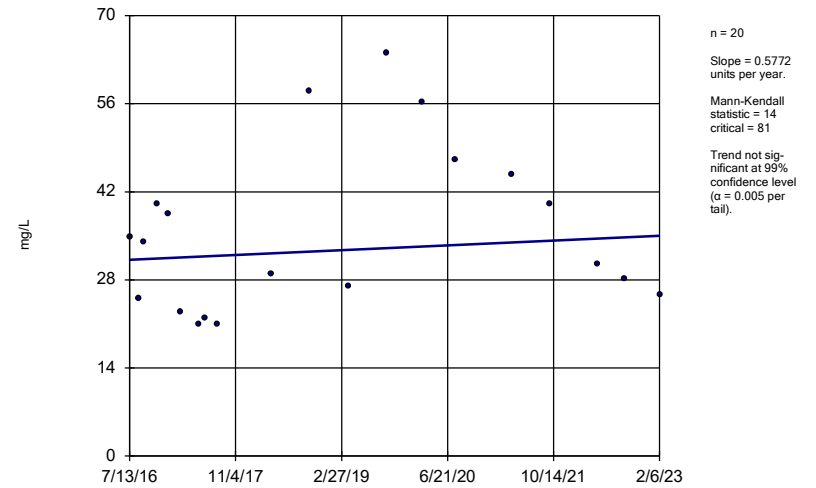
GN-AP-MW-20



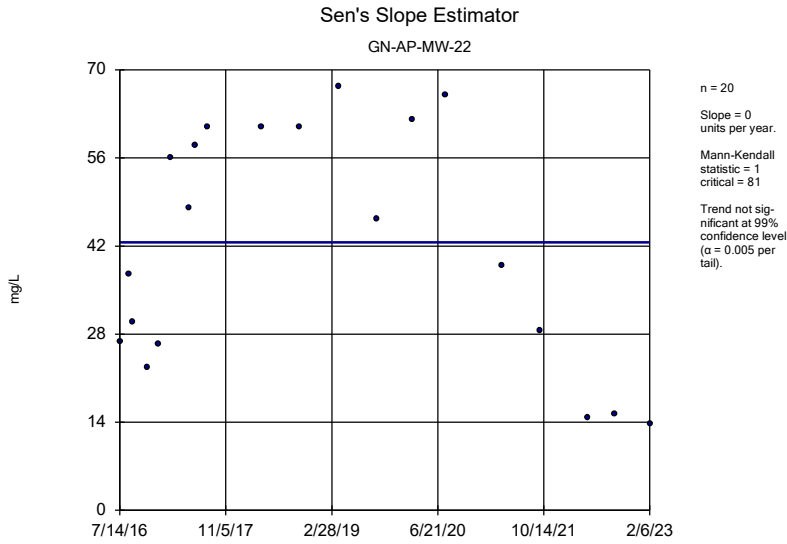
Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

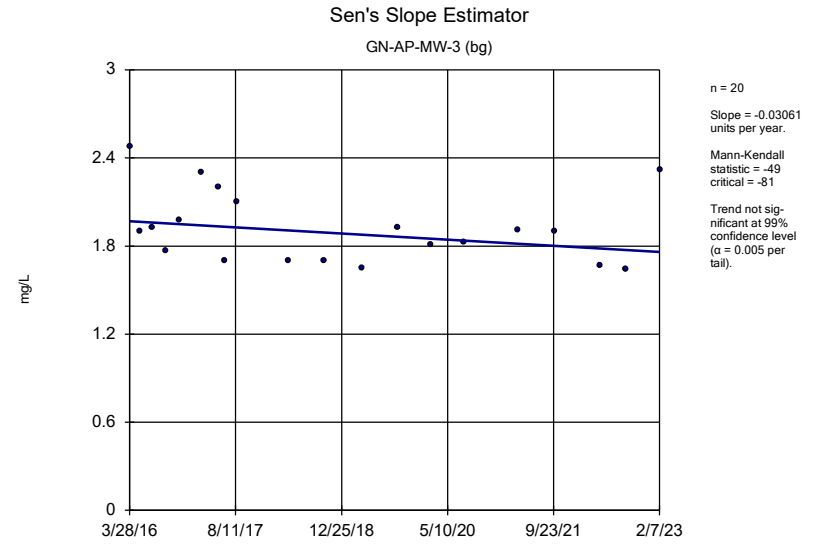
GN-AP-MW-21



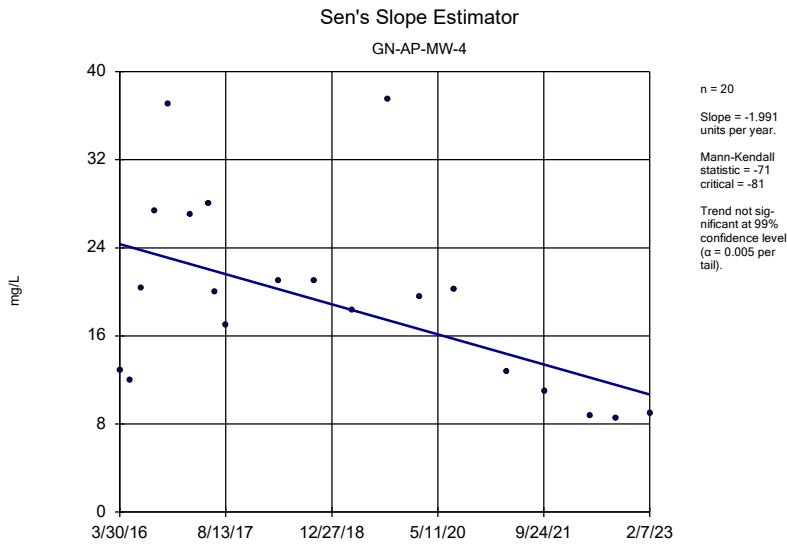
Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



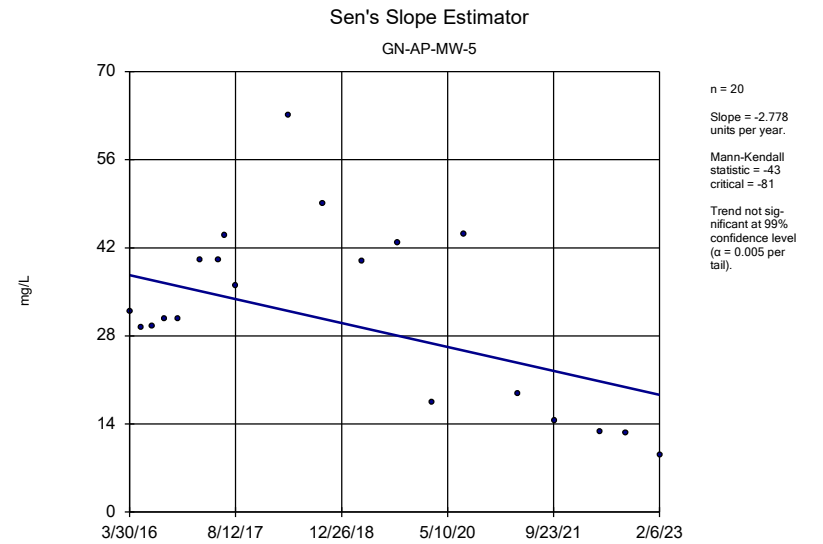
Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



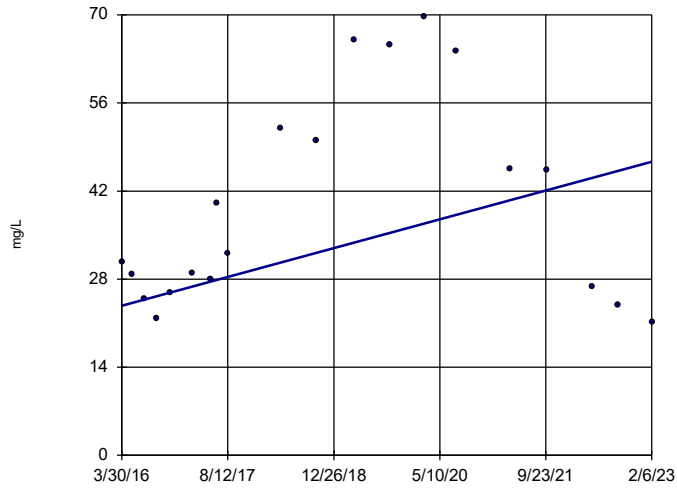
Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-6

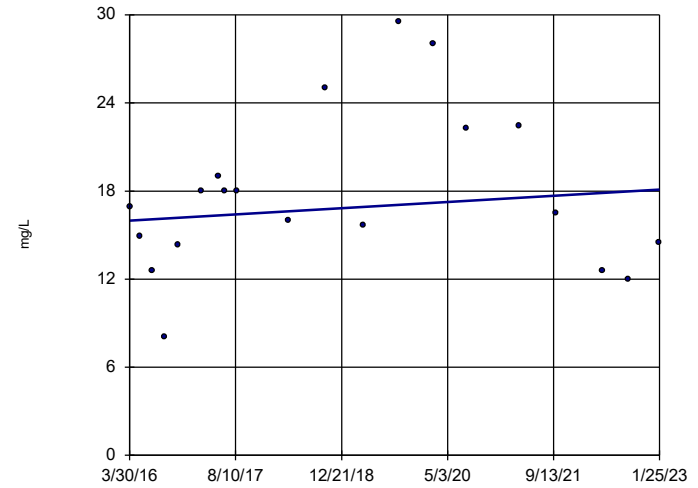


n = 20
 Slope = 3.332
 units per year.
 Mann-Kendall
 statistic = 28
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-7

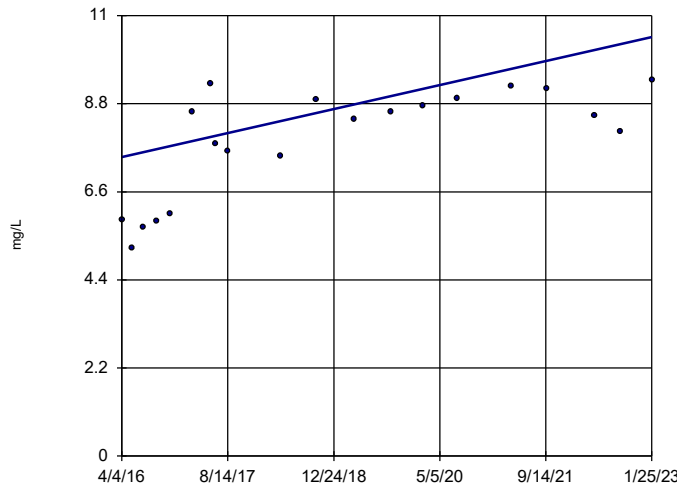


n = 20
 Slope = 0.3098
 units per year.
 Mann-Kendall
 statistic = 16
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-9

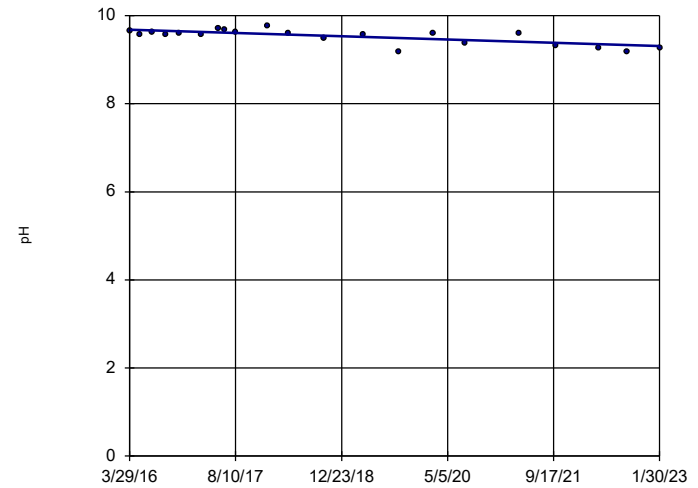


n = 20
 Slope = 0.4398
 units per year.
 Mann-Kendall
 statistic = 104
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17

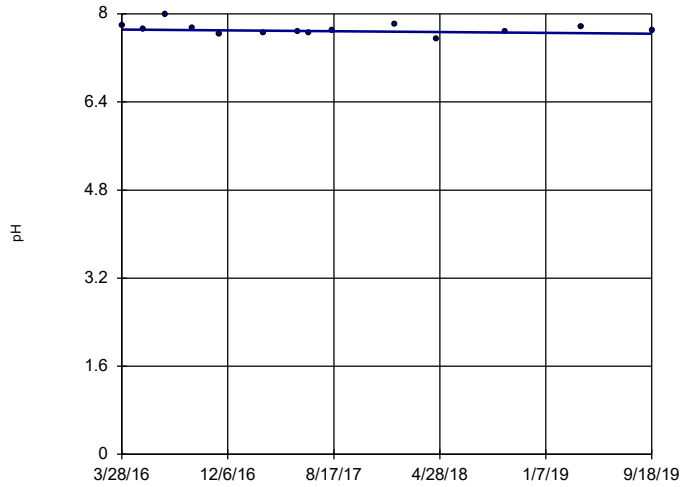


n = 21
 Slope = -0.05484
 units per year.
 Mann-Kendall
 statistic = -95
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-2 (bg)

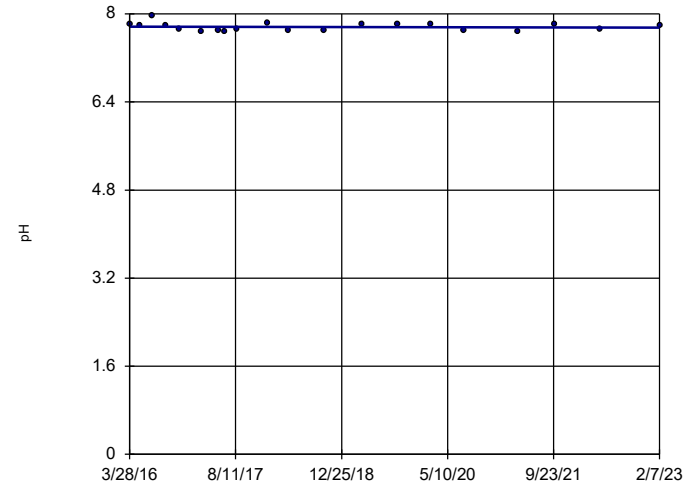


n = 14
 Slope = -0.02103
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

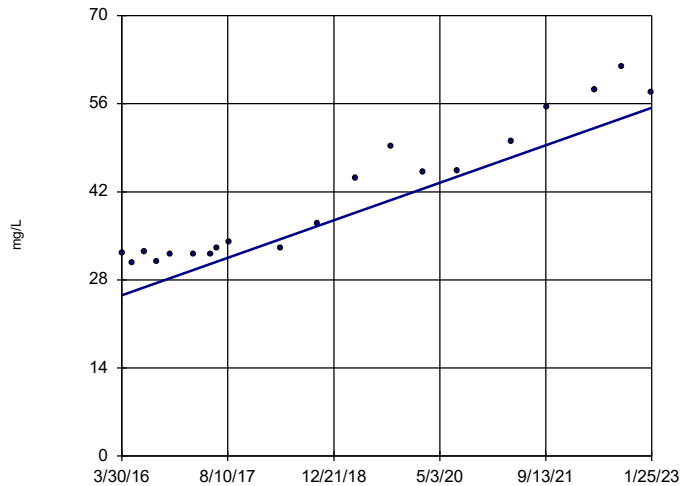


n = 20
 Slope = -0.002517
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-11

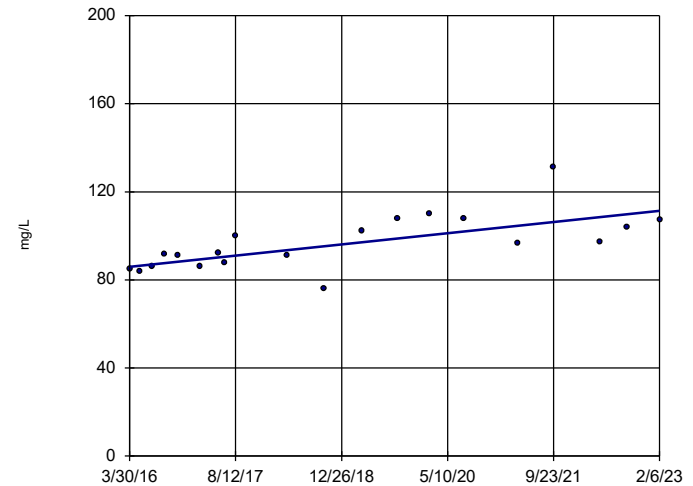


n = 20
 Slope = 4.366
 units per year.
 Mann-Kendall
 statistic = 156
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12

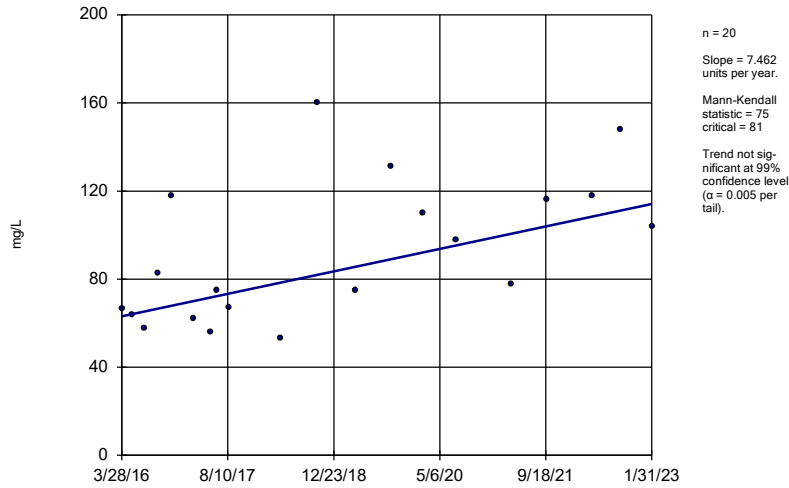


n = 20
 Slope = 3.714
 units per year.
 Mann-Kendall
 statistic = 105
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

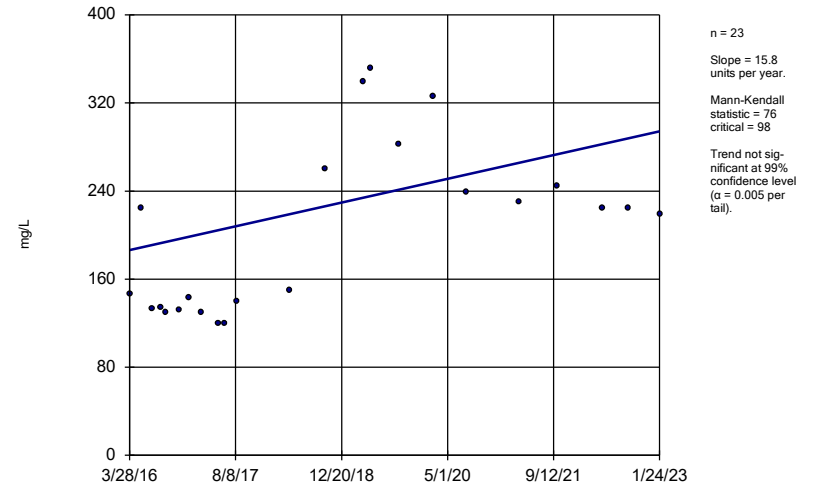
GN-AP-MW-14



Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

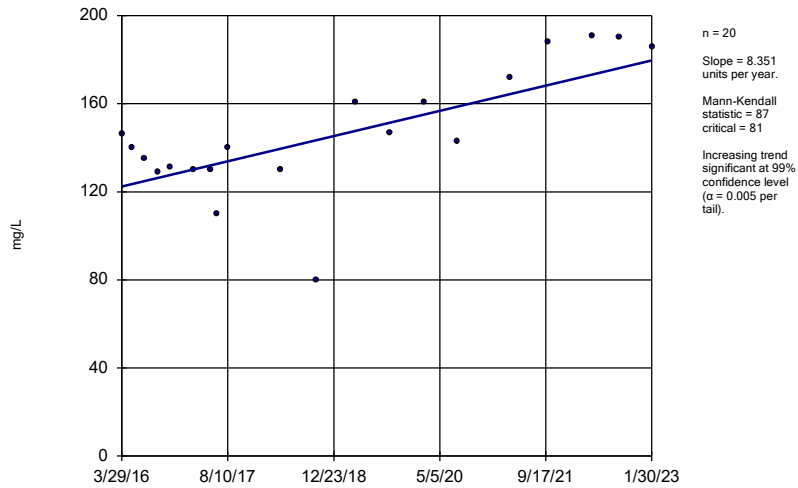
GN-AP-MW-15R



Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

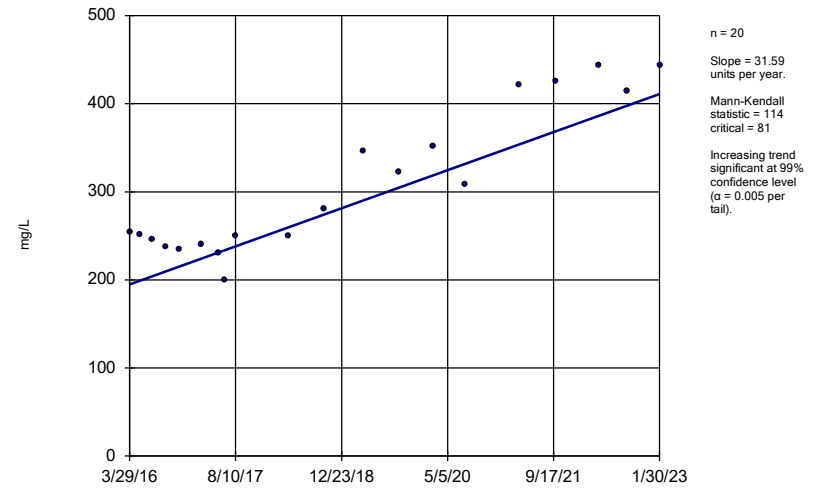
GN-AP-MW-16



Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

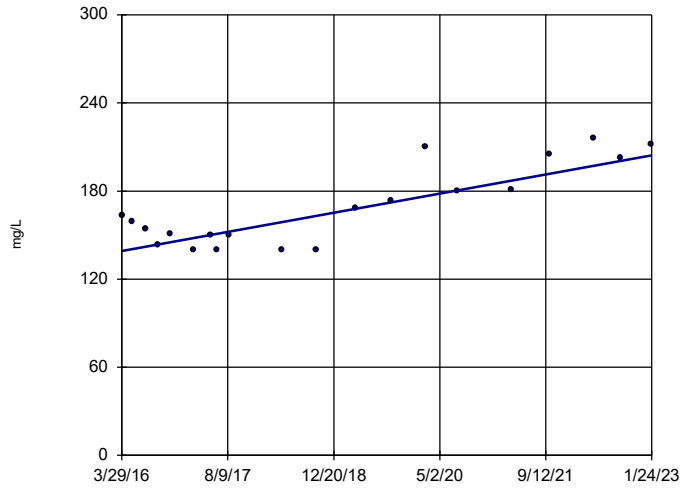
GN-AP-MW-17



Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-18

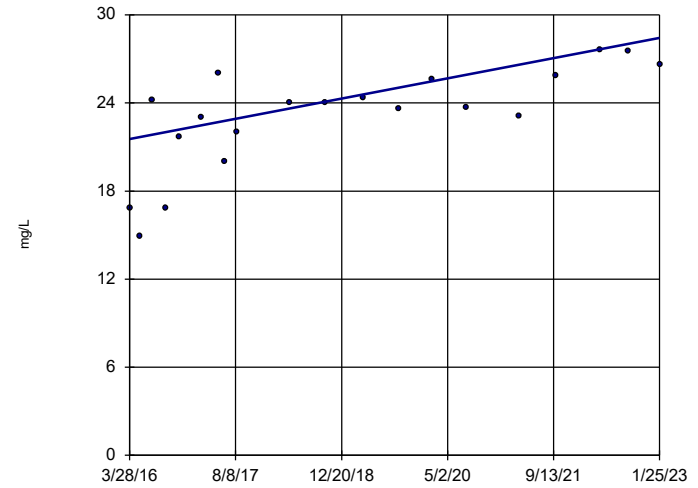


n = 20
 Slope = 9.534
 units per year.
 Mann-Kendall
 statistic = 85
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-19

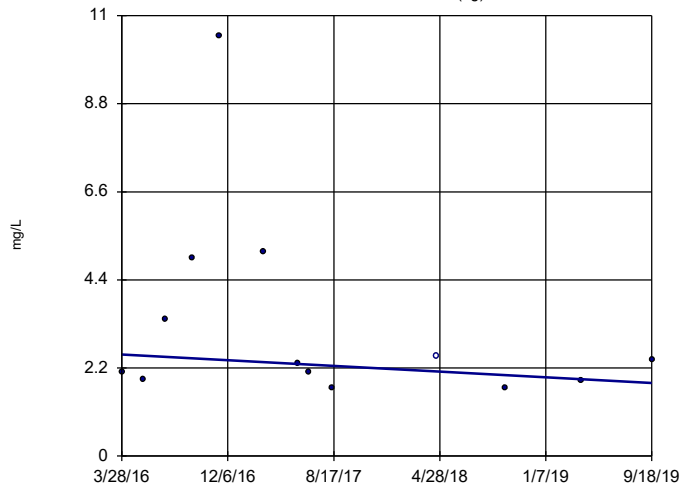


n = 20
 Slope = 1.008
 units per year.
 Mann-Kendall
 statistic = 108
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-2 (bg)

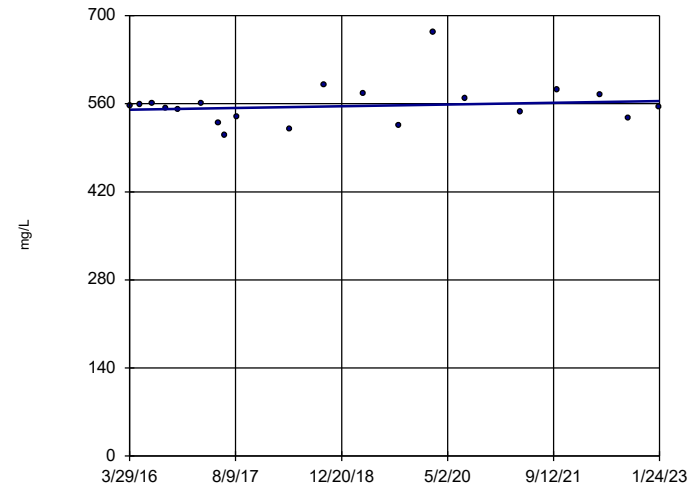


n = 13
 Slope = -0.2042
 units per year.
 Mann-Kendall
 statistic = -15
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-20

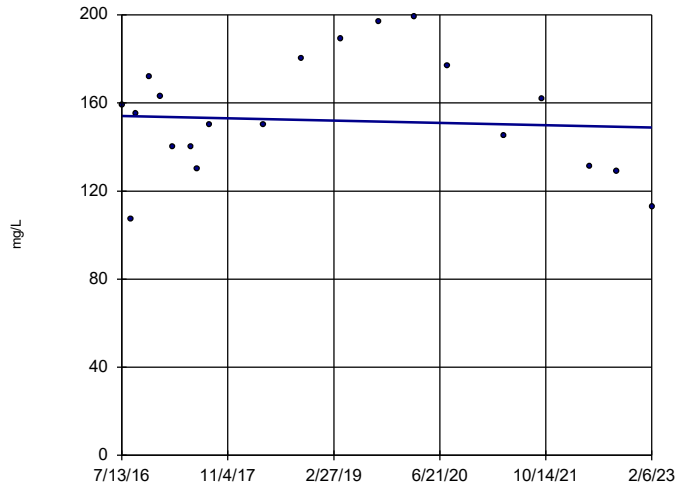


n = 20
 Slope = 2.07
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-21

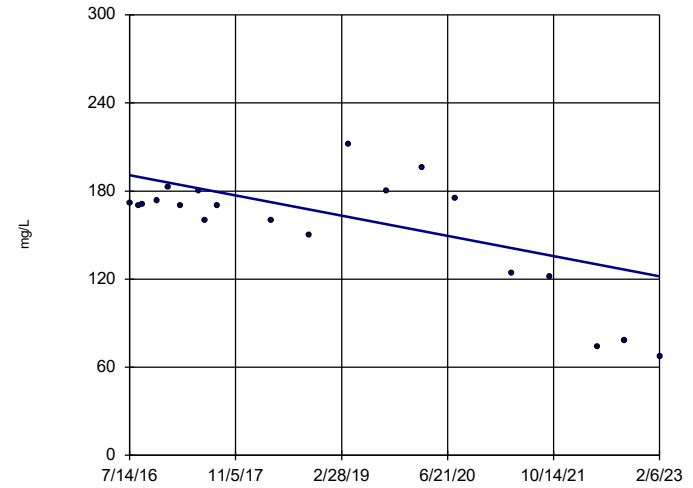


n = 20
 Slope = -0.7912
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-22

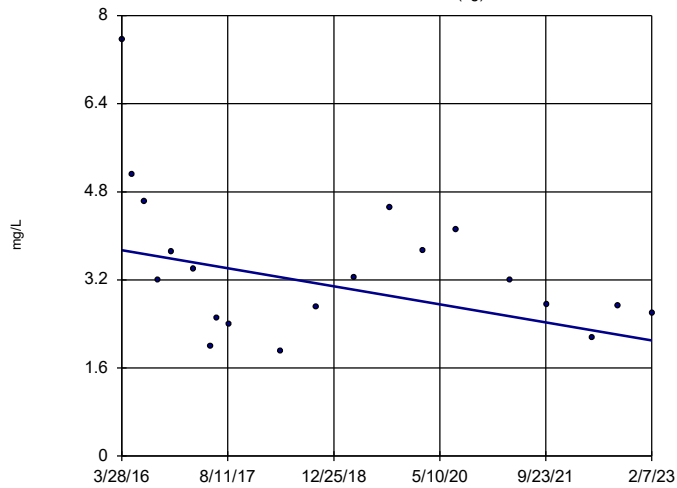


n = 20
 Slope = -10.48
 units per year.
 Mann-Kendall
 statistic = -73
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

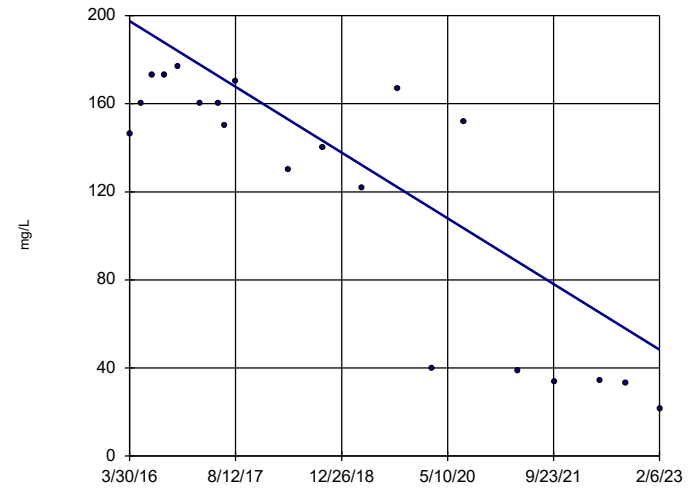


n = 20
 Slope = -0.2392
 units per year.
 Mann-Kendall
 statistic = -58
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-5

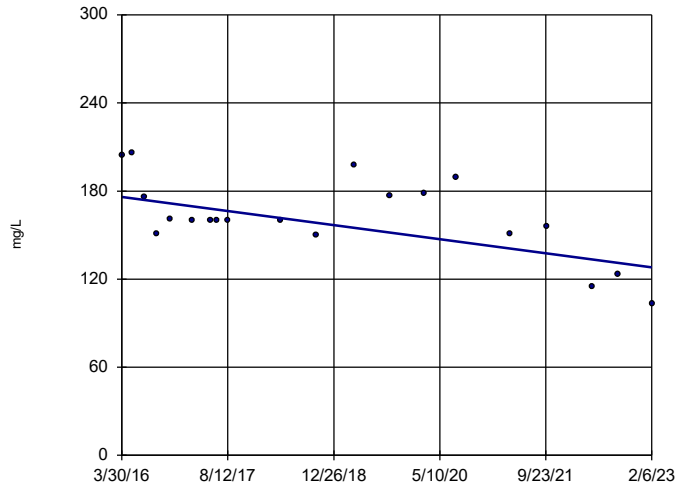


n = 20
 Slope = -21.73
 units per year.
 Mann-Kendall
 statistic = -120
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-6

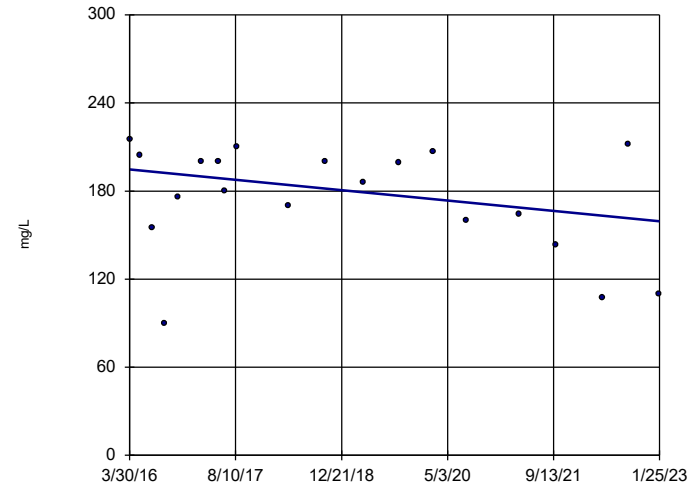


n = 20
 Slope = -6.963
 units per year.
 Mann-Kendall
 statistic = -77
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-7

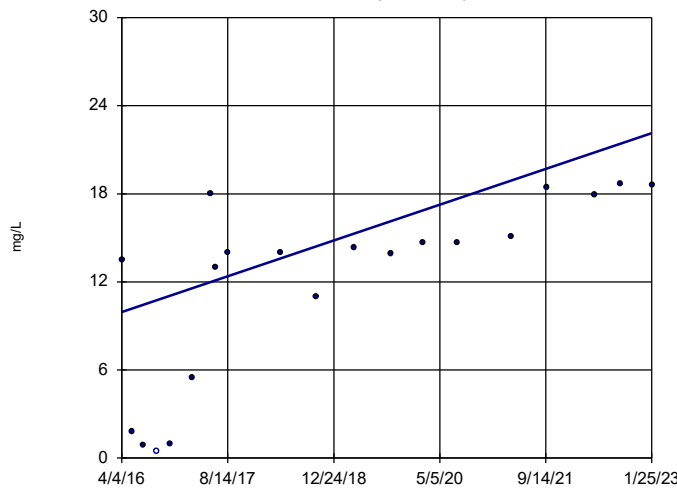


n = 20
 Slope = -5.18
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-9

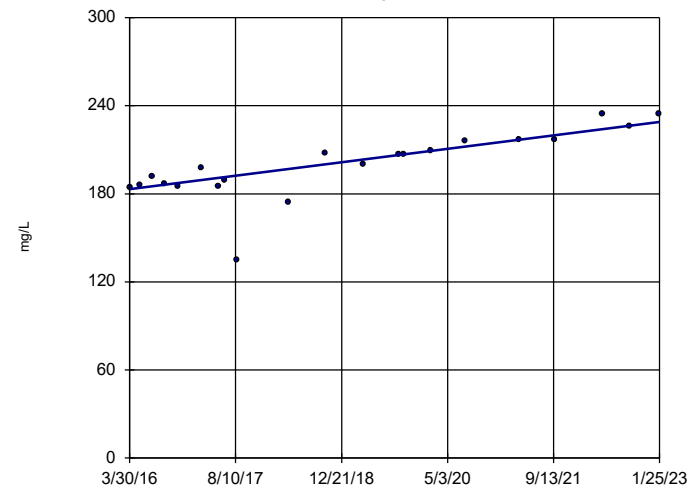


n = 20
 Slope = 1.789
 units per year.
 Mann-Kendall
 statistic = 130
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-11

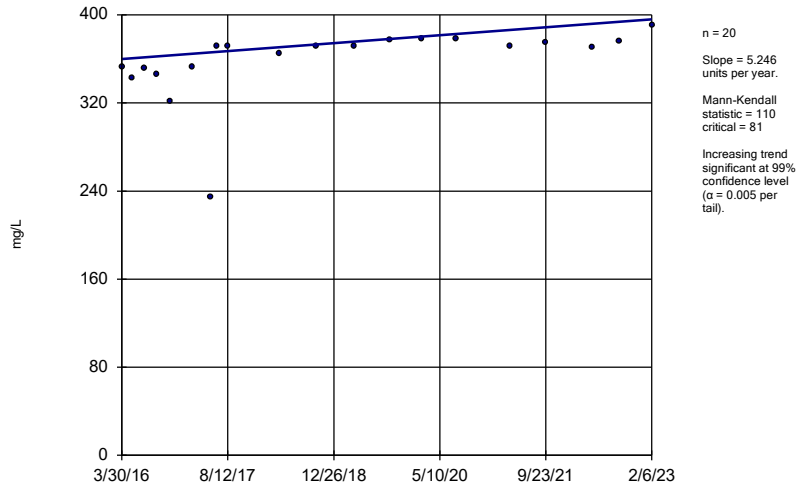


n = 21
 Slope = 6.713
 units per year.
 Mann-Kendall
 statistic = 146
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

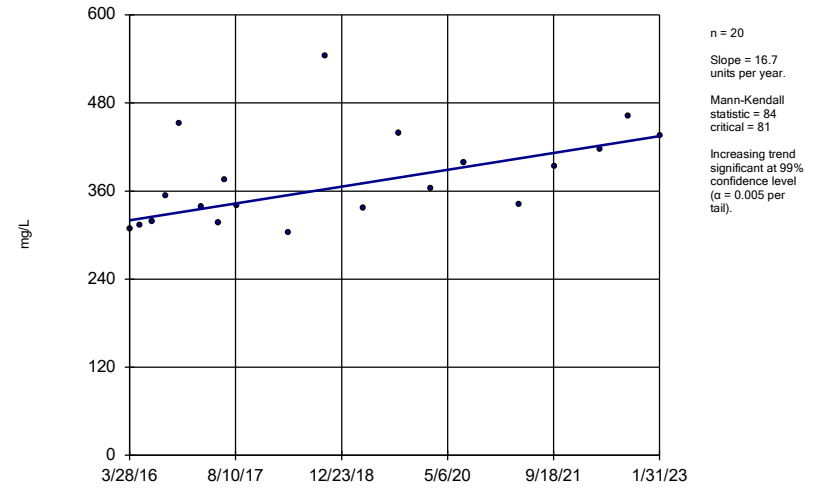
GN-AP-MW-12



Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

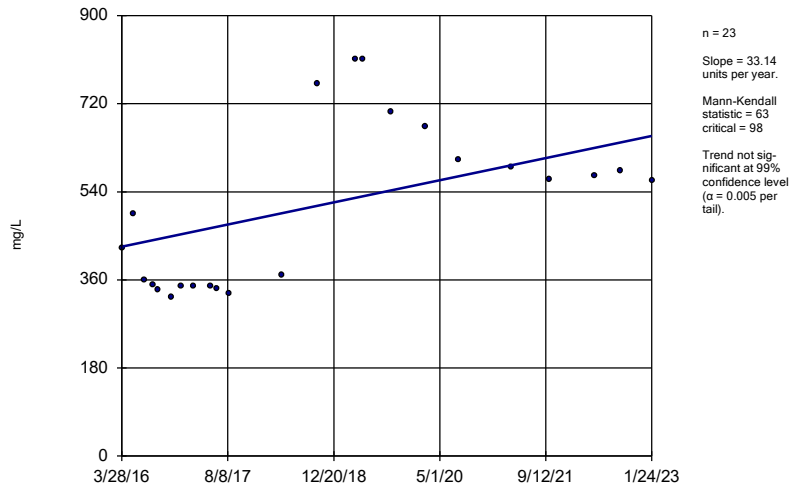
GN-AP-MW-14



Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

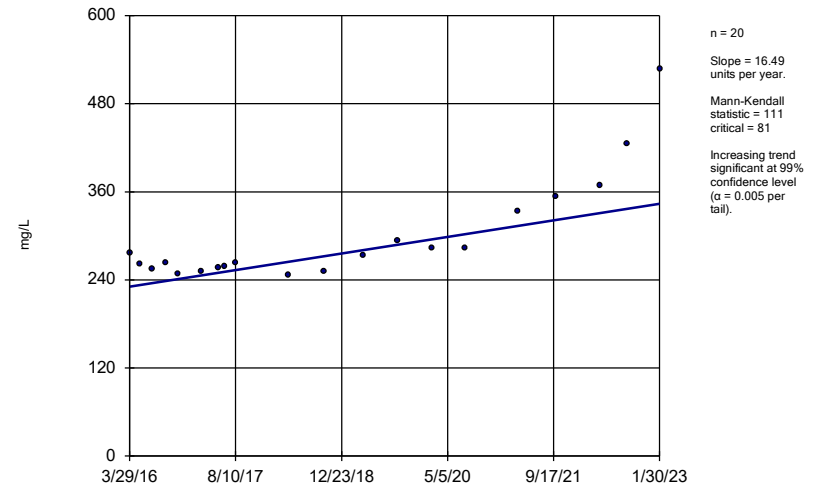
GN-AP-MW-15R



Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

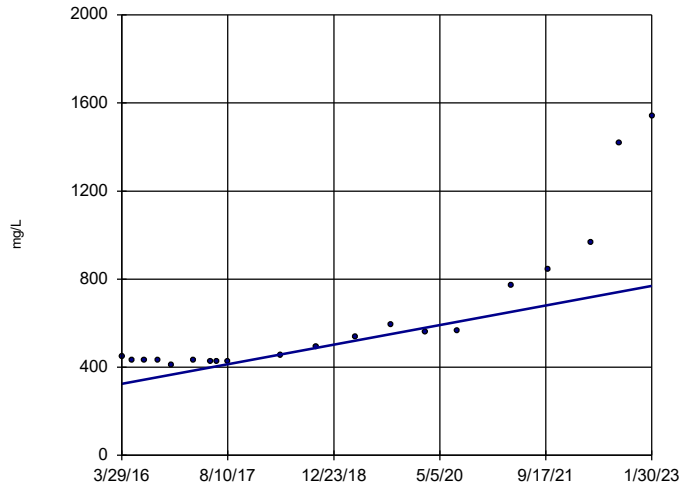
GN-AP-MW-16



Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17

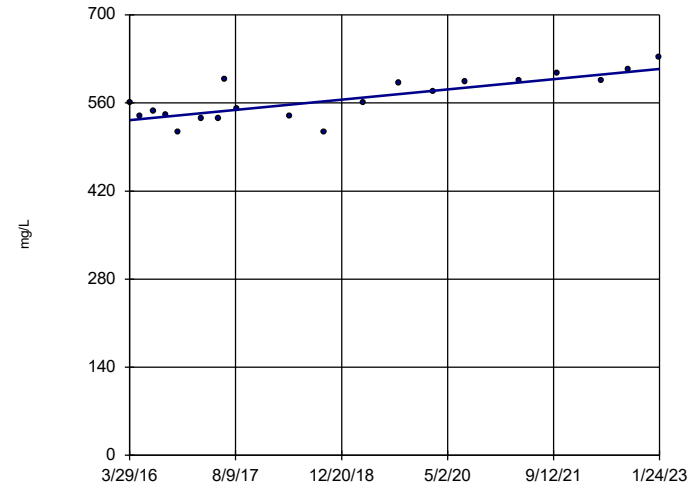


n = 20
 Slope = 64.96
 units per year.
 Mann-Kendall
 statistic = 134
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-18

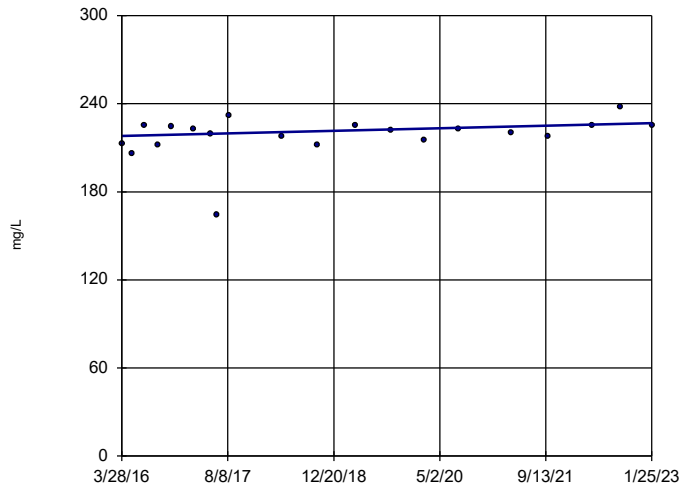


n = 20
 Slope = 11.94
 units per year.
 Mann-Kendall
 statistic = 105
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-19

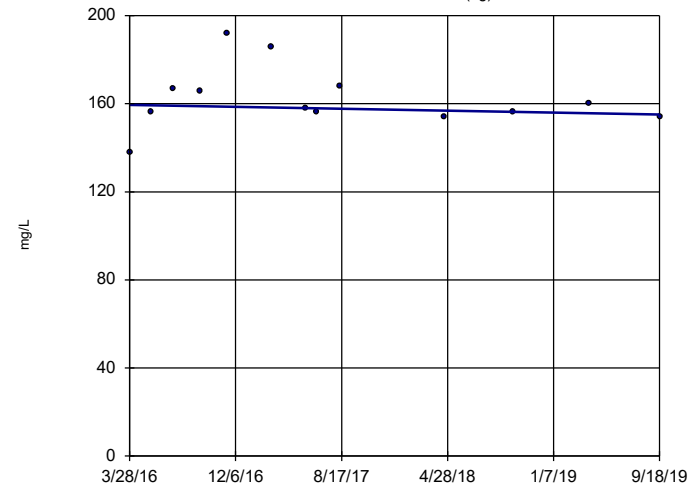


n = 20
 Slope = 1.273
 units per year.
 Mann-Kendall
 statistic = 51
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-2 (bg)

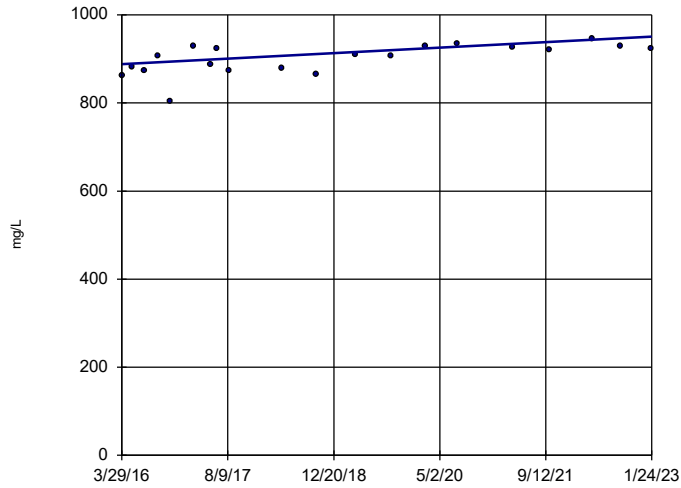


n = 13
 Slope = -1.254
 units per year.
 Mann-Kendall
 statistic = -10
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-20

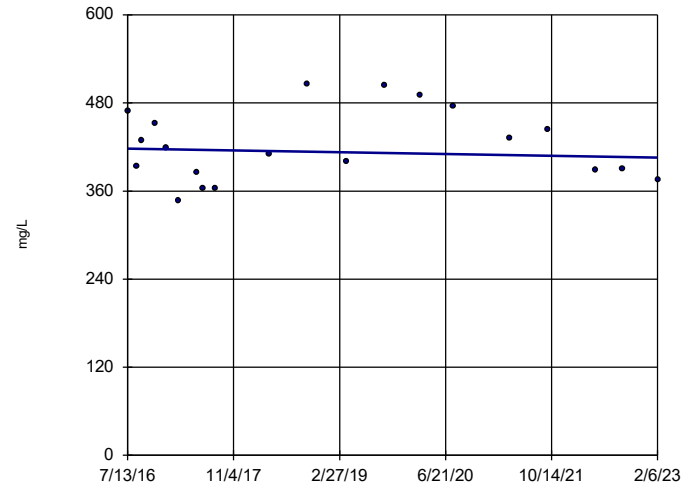


n = 20
 Slope = 9.105
 units per year.
 Mann-Kendall
 statistic = 89
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-21

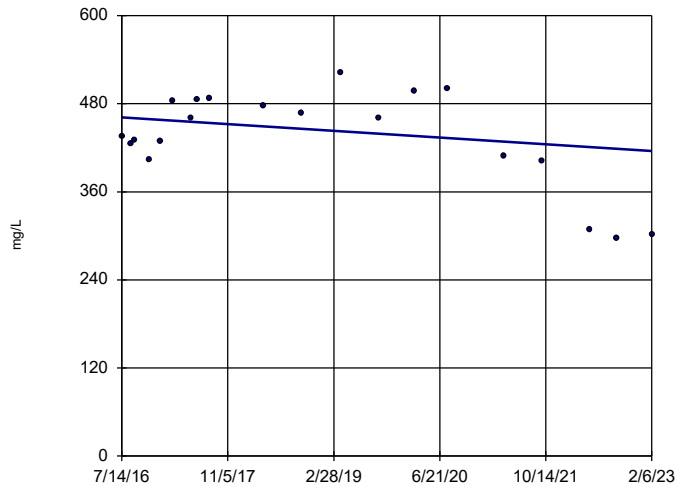


n = 20
 Slope = -1.8
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-22

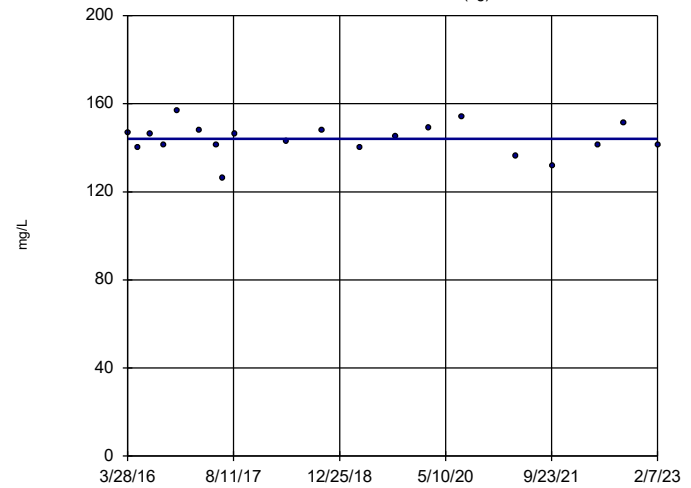


n = 20
 Slope = -6.919
 units per year.
 Mann-Kendall
 statistic = -23
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

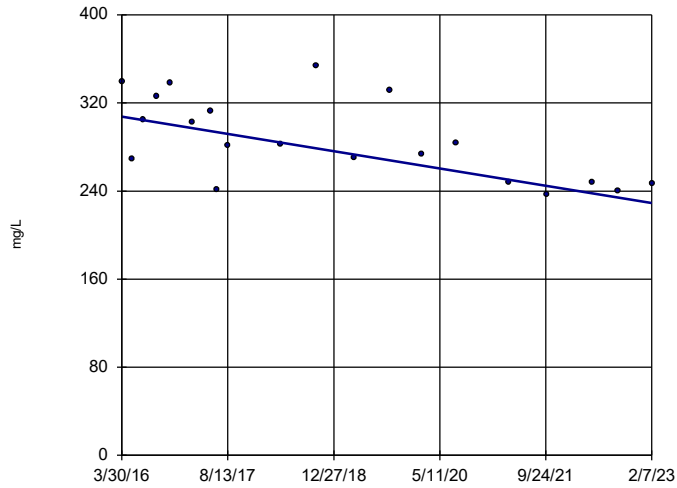


n = 20
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-4

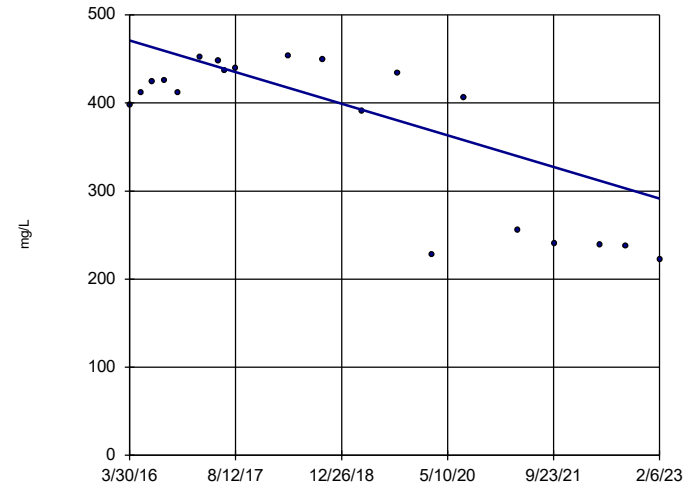


n = 20
 Slope = -11.41 units per year.
 Mann-Kendall statistic = -85
 critical = -81
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-5

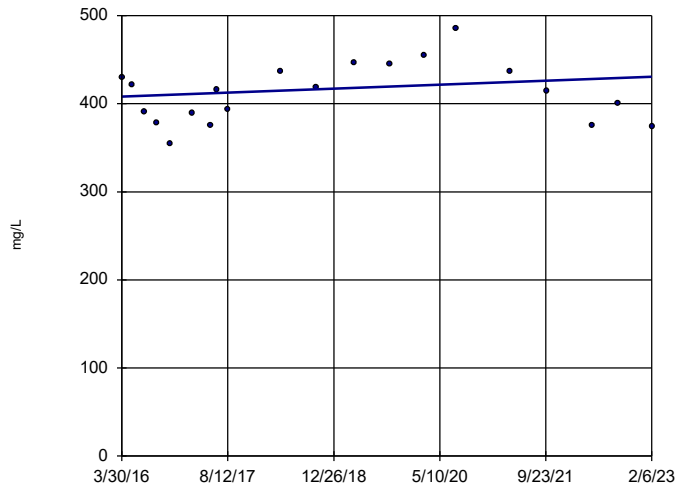


n = 20
 Slope = -26.16 units per year.
 Mann-Kendall statistic = -72
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-6

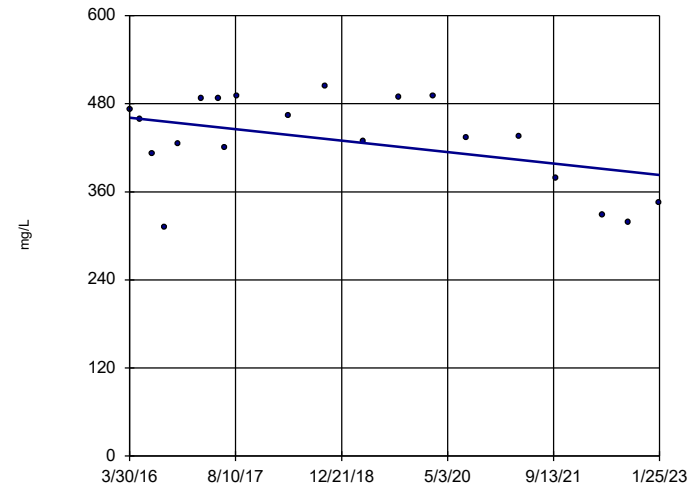


n = 20
 Slope = 3.313 units per year.
 Mann-Kendall statistic = 18
 critical = 81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-7

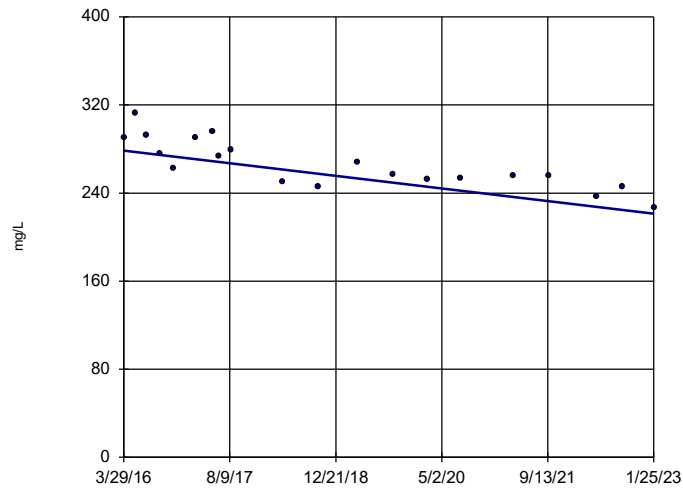


n = 20
 Slope = -11.44 units per year.
 Mann-Kendall statistic = -30
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-8

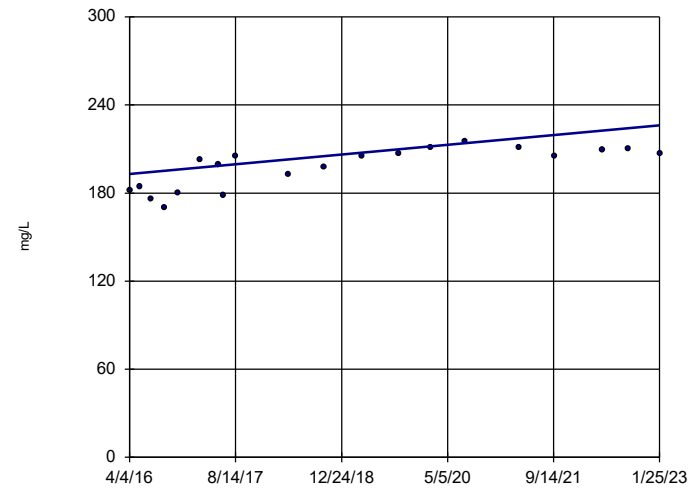


n = 20
Slope = -8.37
units per year.
Mann-Kendall
statistic = -123
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-9



n = 20
Slope = 4.882
units per year.
Mann-Kendall
statistic = 115
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 4/20/2023 2:41 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

FIGURE F.

Upper Tolerance Limits - Appendix IV

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 1/6/2022, 6:28 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
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

FIGURE G.

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.

FIGURE H.

Confidence Intervals - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/3/2023, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Lithium (mg/L)	GN-AP-MW-16	0.1608	0.08494	0.04	Yes	8	0.03579	0	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-17	1.184	0.7526	0.04	Yes	8	0.2037	0	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-18	0.0507	0.0456	0.04	Yes	8	0.002245	0	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-20	0.1396	0.121	0.04	Yes	8	0.008927	0	x^2	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-15R	0.307	0.137	0.1	Yes	8	0.05831	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-16	0.556	0.32	0.1	Yes	8	0.1049	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-17	3.334	2.574	0.1	Yes	8	0.3587	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-20	0.8733	0.7842	0.1	Yes	8	0.04205	0	No	0.01	Param.

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/3/2023, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GN-AP-MW-11	0.00275	0.001015	0.006	No	8	0.0006134	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-12	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-14	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-15R	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-16	0.001015	0.000516	0.006	No	8	0.0001764	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-17	0.001164	0.0005599	0.006	No	8	0.0003943	50	ln(x)	0.01	Param.
Antimony (mg/L)	GN-AP-MW-19	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-20	0.00188	0.001015	0.006	No	8	0.0003058	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-6	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-7	0.00102	0.00102	0.006	No	8	0	100	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-10	0.005	0.000173	0.01	No	8	0.002468	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-11	0.005	0.000164	0.01	No	8	0.002488	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-12	0.004858	0.002162	0.01	No	8	0.001272	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-13	0.005	0.00043	0.01	No	8	0.002302	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-14	0.005	0.000441	0.01	No	8	0.002025	25	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-15R	0.005	0.000483	0.01	No	8	0.001502	12.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-16	0.005854	0.004803	0.01	No	8	0.0004958	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-17	0.01073	0.007806	0.01	No	8	0.00138	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-18	0.00416	0.00255	0.01	No	8	0.0005358	0	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-19	0.002773	0.001792	0.01	No	8	0.0004628	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-20	0.004289	0.003608	0.01	No	8	0.0003212	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-21	0.001891	0.0008418	0.01	No	8	0.0004952	0	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-22	0.005	0.000115	0.01	No	8	0.002189	25	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-4	0.005	0.000129	0.01	No	8	0.002504	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-5	0.005	0.000148	0.01	No	8	0.002483	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-6	0.005	0.0000955	0.01	No	8	0.002518	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-7	0.005	0.000101	0.01	No	8	0.002507	37.5	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-8	0.001837	0.0007341	0.01	No	8	0.0005622	12.5	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-9	0.003082	0.002238	0.01	No	8	0.0003977	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-10	0.01402	0.01283	2	No	8	0.0005651	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-11	0.009636	0.008374	2	No	8	0.0005953	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-12	0.08044	0.07331	2	No	8	0.003362	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-13	0.04263	0.03784	2	No	8	0.002261	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-14	0.07857	0.06518	2	No	8	0.006315	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-15R	0.07117	0.05286	2	No	8	0.00892	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GN-AP-MW-16	0.07028	0.03342	2	No	8	0.01874	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GN-AP-MW-17	0.1316	0.1046	2	No	8	0.01277	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-18	0.0553	0.0483	2	No	8	0.003301	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-19	0.01834	0.01348	2	No	8	0.002385	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GN-AP-MW-20	0.06273	0.0541	2	No	8	0.00407	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-21	0.04627	0.02953	2	No	8	0.007901	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-22	0.04354	0.02724	2	No	8	0.007688	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-4	0.0344	0.0151	2	No	8	0.006625	0	No	0.004	NP (normality)
Barium (mg/L)	GN-AP-MW-5	0.0314	0.02087	2	No	8	0.004966	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-6	0.02502	0.02071	2	No	8	0.002034	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-7	0.02691	0.01919	2	No	8	0.003638	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-8	0.02033	0.0156	2	No	8	0.002231	0	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-9	0.1163	0.106	2	No	8	0.004853	0	No	0.01	Param.
Cadmium (mg/L)	GN-AP-MW-16	0.0002	0.00008	0.005	No	8	0.00005122	75	No	0.004	NP (NDs)
Cadmium (mg/L)	GN-AP-MW-17	0.001	0.000261	0.005	No	8	0.000344	37.5	No	0.004	NP (normality)
Cadmium (mg/L)	GN-AP-MW-20	0.0002	0.00008	0.005	No	8	0.00005067	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-10	0.01	0.00025	0.1	No	8	0.005024	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-11	0.01	0.00065	0.1	No	8	0.004737	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-12	0.00102	0.000278	0.1	No	8	0.000374	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-13	0.00102	0.00027	0.1	No	8	0.0003817	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-14	0.01	0.000209	0.1	No	8	0.005043	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-15R	0.00102	0.00027	0.1	No	8	0.0003569	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-16	0.001015	0.00021	0.1	No	8	0.0003942	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-17	0.00102	0.00028	0.1	No	8	0.0003568	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-18	0.00102	0.00024	0.1	No	8	0.0003797	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-19	0.00102	0.00024	0.1	No	8	0.0003808	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-20	0.00186	0.00029	0.1	No	8	0.00048	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-21	0.00102	0.00032	0.1	No	8	0.0003127	75	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-22	0.001015	0.000237	0.1	No	8	0.0003944	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-4	0.01	0.00055	0.1	No	8	0.004792	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-5	0.01	0.000268	0.1	No	8	0.005001	37.5	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-6	0.00102	0.000259	0.1	No	8	0.0003719	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-7	0.00102	0.00035	0.1	No	8	0.0003196	62.5	No	0.004	NP (NDs)

Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/3/2023, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Chromium (mg/L)	GN-AP-MW-8	0.00102	0.00031	0.1	No	8	0.0003692	50	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-9	0.00102	0.000286	0.1	No	8	0.0003862	50	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-11	0.000203	0.000075	0.006	No	8	0.00004525	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-12	0.005	0.000113	0.006	No	8	0.002494	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-13	0.0002	0.000094	0.006	No	8	0.0000401	50	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-15R	0.005	0.000193	0.006	No	8	0.002427	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-16	0.005	0.000679	0.006	No	8	0.002128	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-18	0.002242	0.0009226	0.006	No	8	0.001841	37.5	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-19	0.005	0.0000907	0.006	No	8	0.002522	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-21	0.001162	0.0003161	0.006	No	8	0.002238	37.5	ln(x)	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-22	0.005	0.000147	0.006	No	8	0.002457	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-4	0.0002	0.000078	0.006	No	8	0.00004313	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-5	0.000209	0.00009	0.006	No	8	0.00005343	50	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-8	0.0002	0.0000945	0.006	No	8	0.0000373	87.5	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-10	0.6896	0.2072	5	No	8	0.2276	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-11	0.4668	0.0465	5	No	8	0.1982	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-12	1.553	0.9035	5	No	8	0.3065	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-13	0.9681	0.5641	5	No	8	0.1906	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-14	1.482	0.3575	5	No	8	0.5307	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-15R	1.582	0.7319	5	No	8	0.5123	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-16	5.335	3.255	5	No	8	0.9809	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-17	1.786	0.8001	5	No	8	0.4651	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-18	1.993	1.115	5	No	8	0.4141	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-19	1.258	0.3321	5	No	8	0.437	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	15.7	1.49	5	No	8	4.773	0	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-21	0.8843	0.163	5	No	8	0.3403	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-22	0.8099	0.3109	5	No	8	0.2354	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-4	1.026	0.4336	5	No	8	0.2796	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-5	1.278	0.3779	5	No	8	0.4245	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-6	0.7639	0.3216	5	No	8	0.2086	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-7	0.7767	0.4438	5	No	8	0.157	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-8	0.5812	0.2109	5	No	8	0.1747	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-9	0.9393	0.2657	5	No	8	0.3178	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-10	0.125	0.051	4	No	8	0.03181	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-11	0.125	0.0546	4	No	8	0.03085	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-12	0.08323	0.05619	4	No	8	0.03062	37.5	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-13	0.125	0.06	4	No	8	0.02763	37.5	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-14	0.1354	0.08132	4	No	8	0.02549	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-15R	0.104	0.07458	4	No	8	0.01388	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-16	0.1461	0.09756	4	No	8	0.02289	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-17	0.2035	0.1258	4	No	8	0.03665	0	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-18	0.125	0.0551	4	No	8	0.03152	50	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-19	0.125	0.0507	4	No	8	0.03171	50	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-20	0.125	0.0566	4	No	8	0.0304	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-21	0.125	0.0676	4	No	8	0.02542	37.5	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-22	0.09048	0.0655	4	No	8	0.02448	25	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-4	0.125	0.0506	4	No	8	0.03068	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-5	0.09681	0.06042	4	No	8	0.02671	25	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-6	0.125	0.0634	4	No	8	0.0249	62.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-7	0.125	0.0523	4	No	8	0.03261	50	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-8	0.1199	0.06559	4	No	8	0.02562	12.5	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-9	0.1611	0.09812	4	No	8	0.02973	0	No	0.01	Param.
Lead (mg/L)	GN-AP-MW-11	0.000203	0.000107	0.015	No	8	0.00003394	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-13	0.0002	0.000106	0.015	No	8	0.00003323	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-17	0.000203	0.00007	0.015	No	8	0.00004702	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-19	0.0002	0.00019	0.015	No	8	0.000003536	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-5	0.005	0.0001	0.015	No	8	0.002504	37.5	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-15R	0.09779	0.02231	0.04	No	8	0.05469	0	ln(x)	0.01	Param.
Lithium (mg/L)	GN-AP-MW-16	0.1608	0.08494	0.04	Yes	8	0.03579	0	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-17	1.184	0.7526	0.04	Yes	8	0.2037	0	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-18	0.0507	0.0456	0.04	Yes	8	0.002245	0	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-20	0.1396	0.121	0.04	Yes	8	0.008927	0	x^2	0.01	Param.
Lithium (mg/L)	GN-AP-MW-5	0.03088	0.002857	0.04	No	8	0.01182	50	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-6	0.02	0.00779	0.04	No	8	0.004276	75	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-10	0.01	0.000158	0.1	No	8	0.005067	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-11	0.01	0.00026	0.1	No	8	0.005017	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-12	0.01	0.000272	0.1	No	8	0.005012	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-13	0.01	0.0003	0.1	No	8	0.00501	37.5	No	0.004	NP (normality)

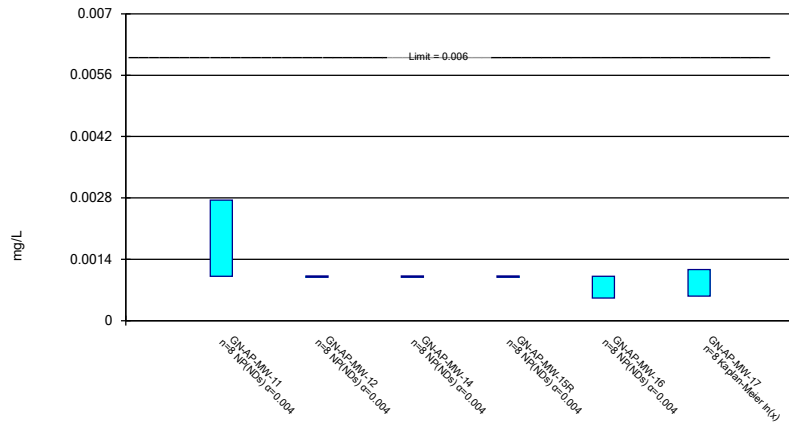
Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 4/3/2023, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Molybdenum (mg/L)	GN-AP-MW-14	0.01	0.000298	0.1	No	8	0.004866	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-15R	0.307	0.137	0.1	Yes	8	0.05831	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-16	0.556	0.32	0.1	Yes	8	0.1049	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-17	3.334	2.574	0.1	Yes	8	0.3587	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-18	0.071	0.0228	0.1	No	8	0.02146	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-19	0.01479	0.01288	0.1	No	8	0.0008991	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-20	0.8733	0.7842	0.1	Yes	8	0.04205	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-21	0.01462	0.008023	0.1	No	8	0.003111	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-22	0.07418	0.03077	0.1	No	8	0.02048	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-4	0.01	0.000137	0.1	No	8	0.004982	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-5	0.261	0.0299	0.1	No	8	0.0905	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-6	0.01621	0.007496	0.1	No	8	0.004109	0	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-7	0.01	0.00021	0.1	No	8	0.005023	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-8	0.01	0.000577	0.1	No	8	0.004764	37.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-9	0.01	0.000821	0.1	No	8	0.004612	37.5	No	0.004	NP (normality)
Selenium (mg/L)	GN-AP-MW-10	0.00102	0.000532	0.05	No	8	0.0002218	75	No	0.004	NP (NDs)
Selenium (mg/L)	GN-AP-MW-17	0.001015	0.00059	0.05	No	8	0.0001503	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-16	0.000203	0.000105	0.002	No	8	0.00003465	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-17	0.0002	0.00008	0.002	No	8	0.00005489	62.5	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-18	0.0004864	0.0003909	0.002	No	8	0.00004503	0	No	0.01	Param.

Parametric and Non-Parametric (NP) Confidence Interval

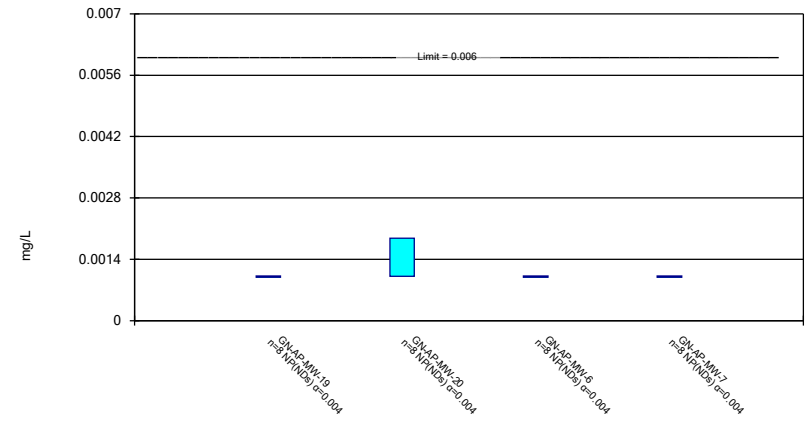
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Constituent: Antimony Analysis Run 4/3/2023 3:48 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

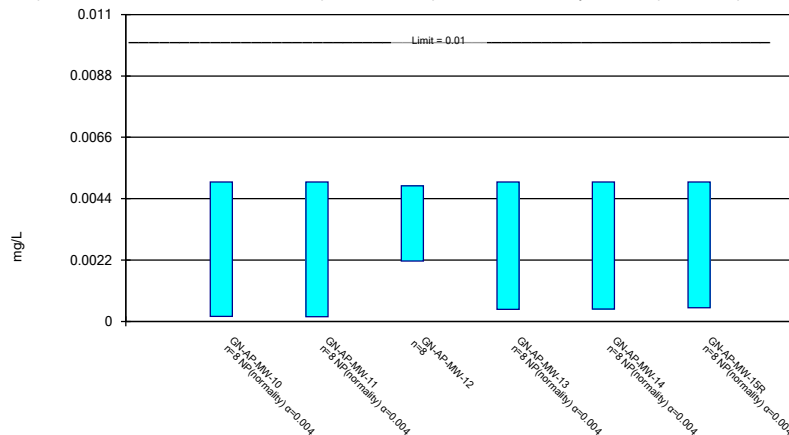
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

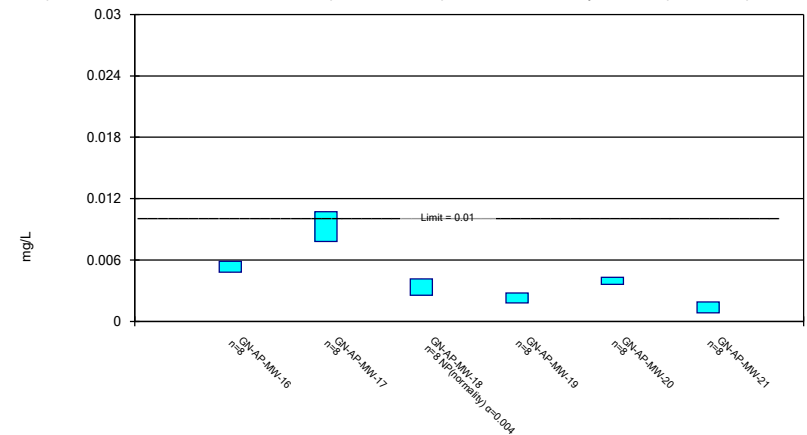
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Constituent: Arsenic Analysis Run 4/3/2023 3:48 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

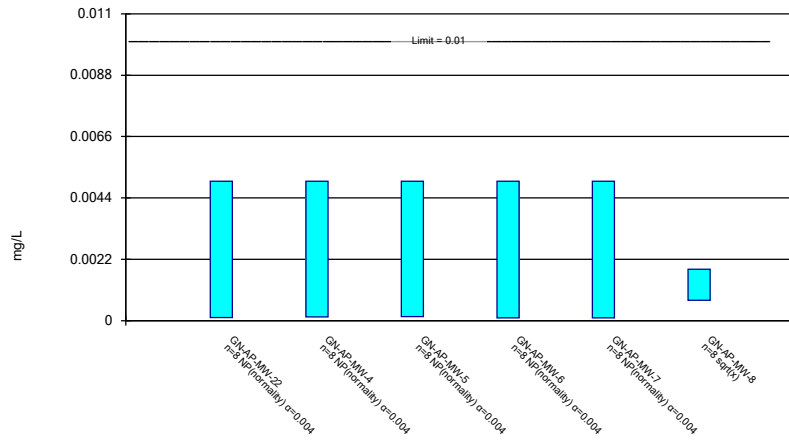
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

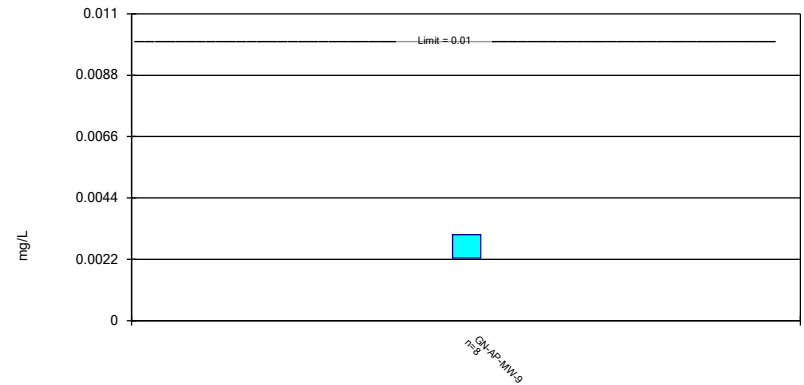
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

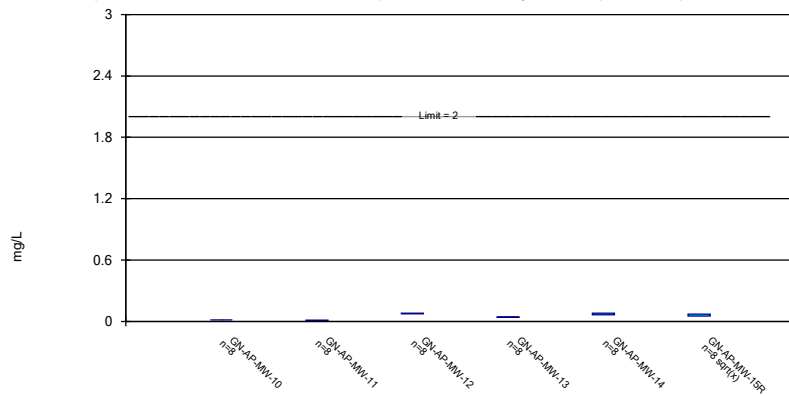
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

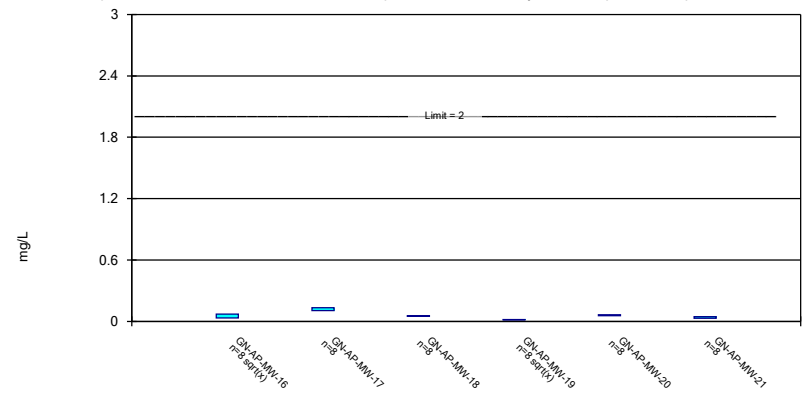
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

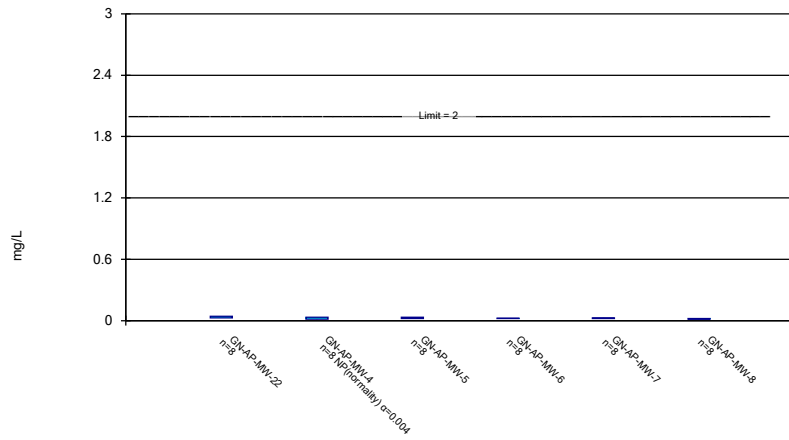
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

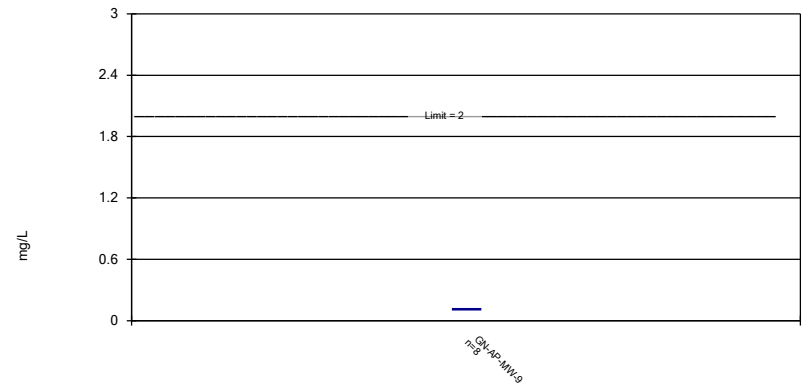
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Constituent: Barium Analysis Run 4/3/2023 3:48 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

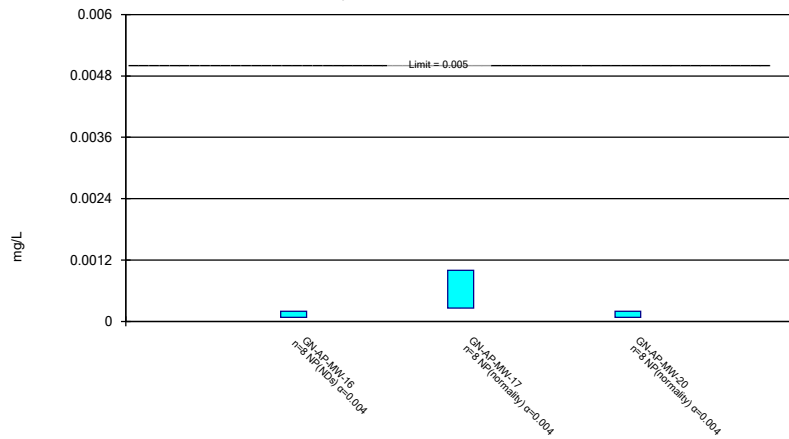
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/3/2023 3:48 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

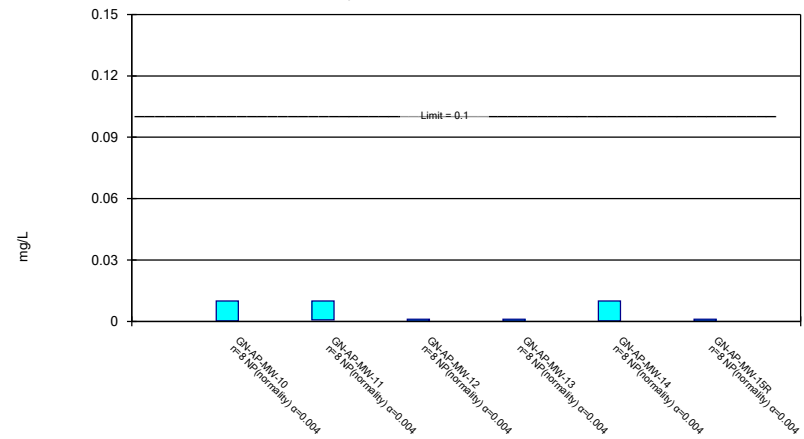
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

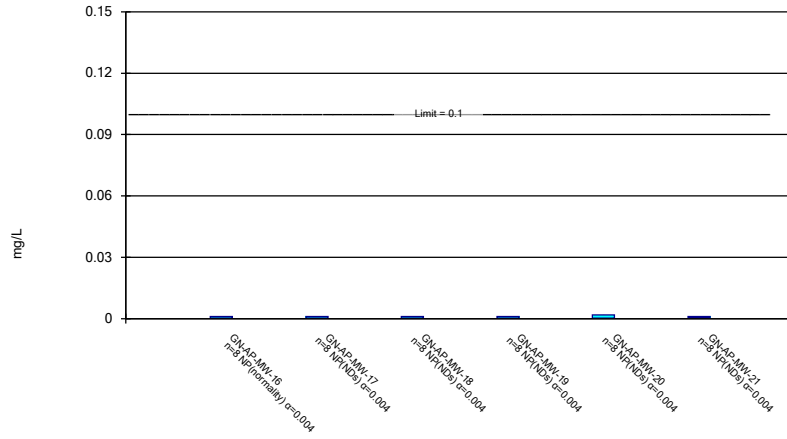
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

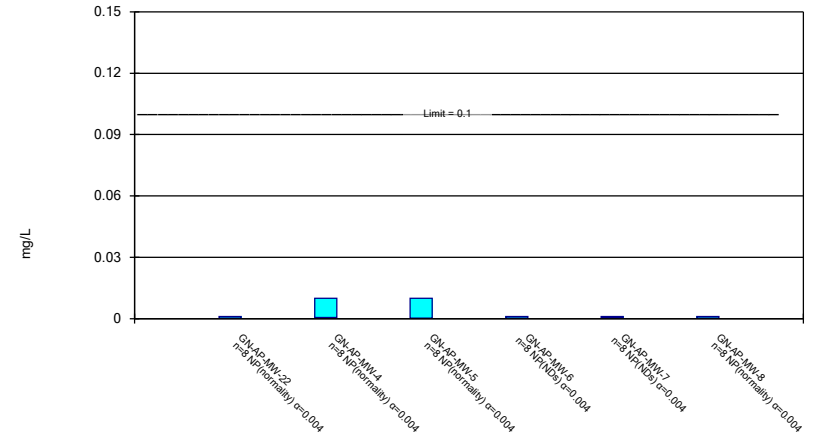
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

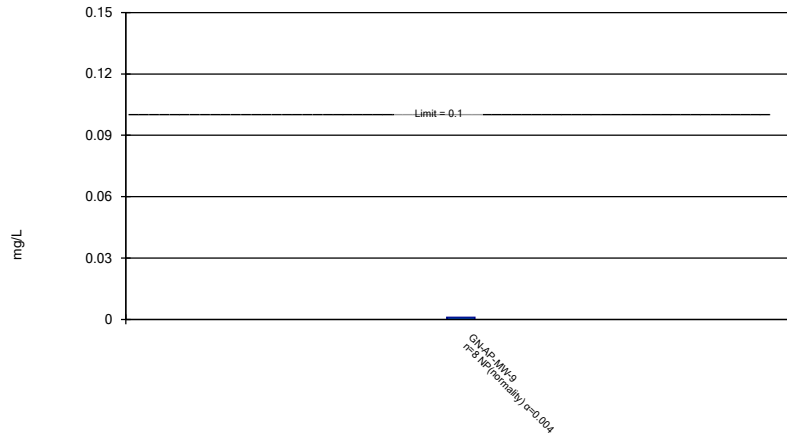
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

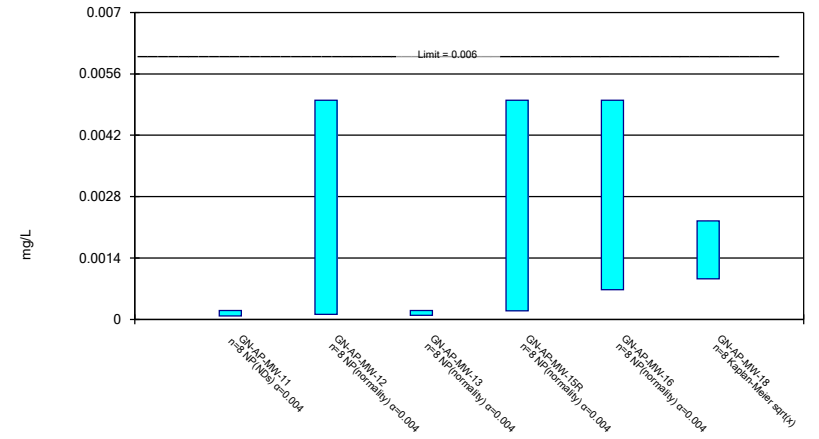
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

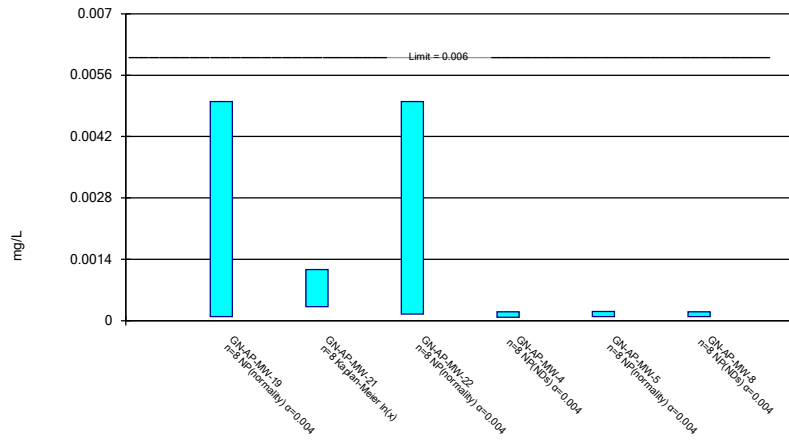
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

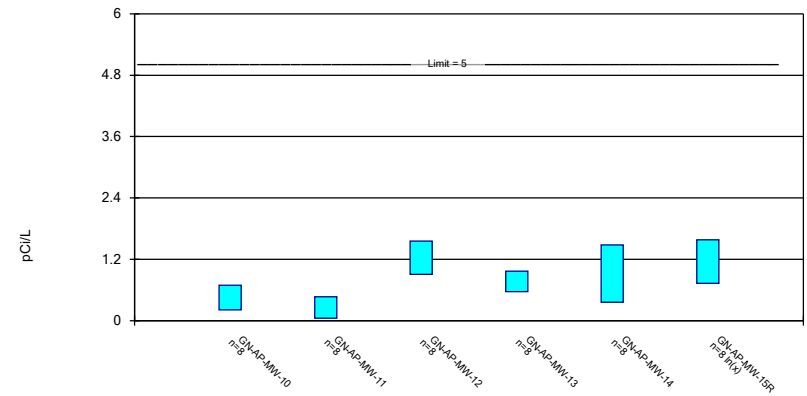
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

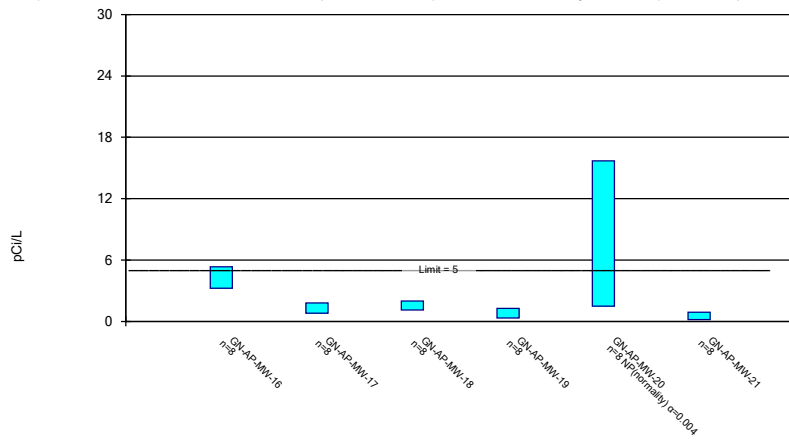
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

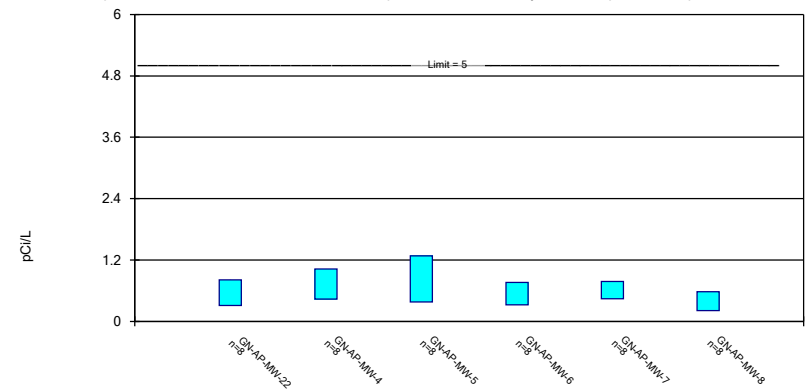
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

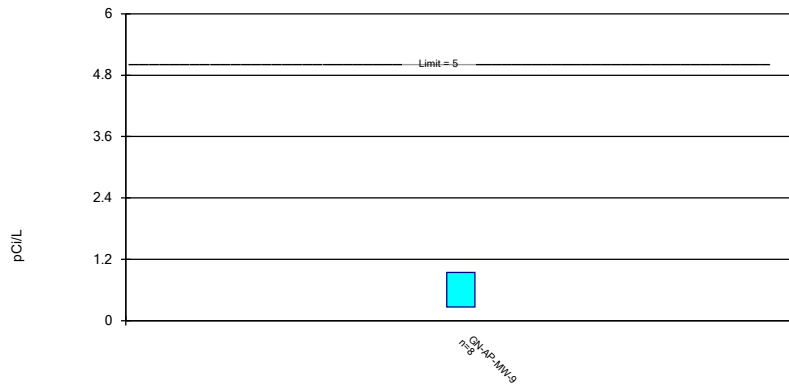
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

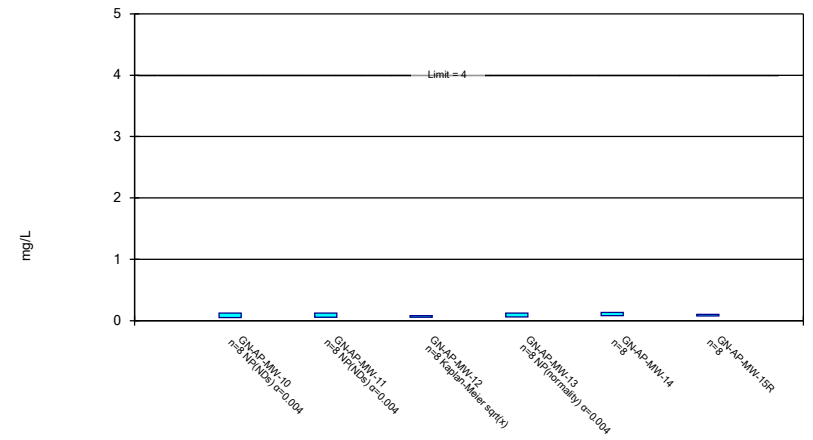
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

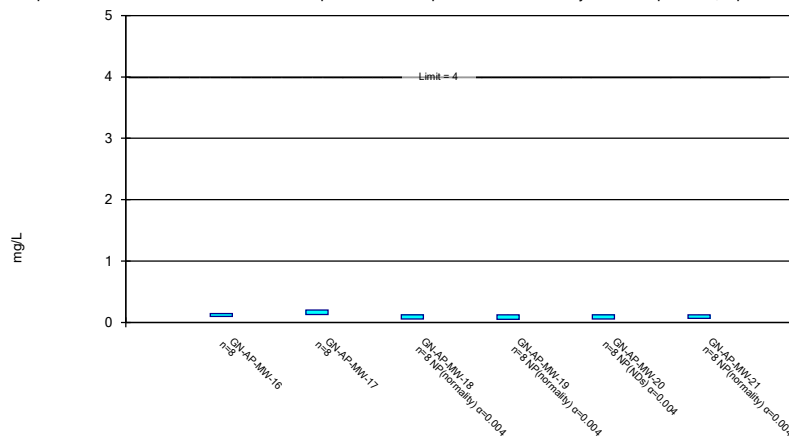
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

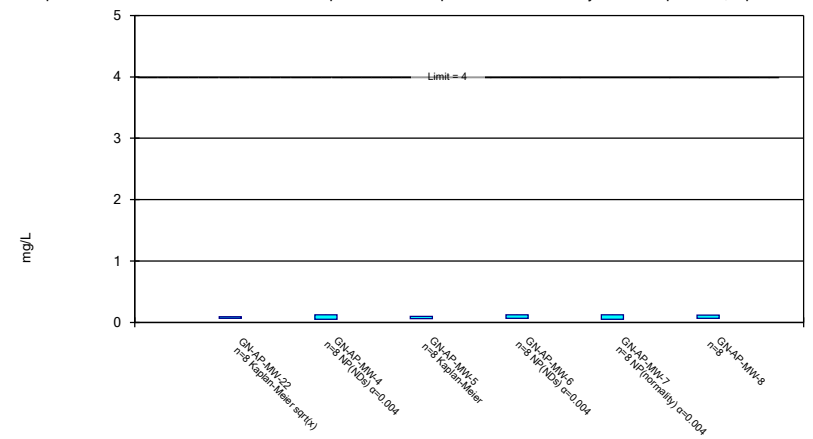
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

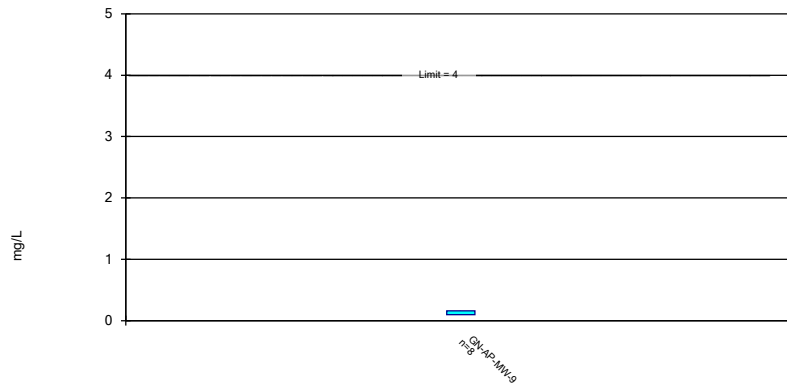
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

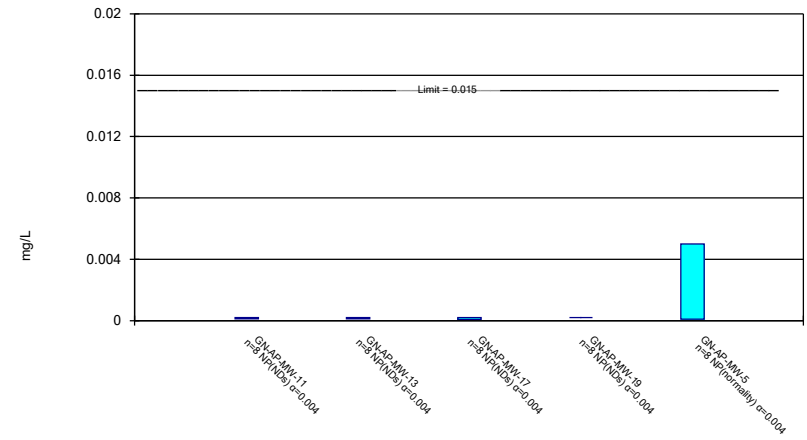
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

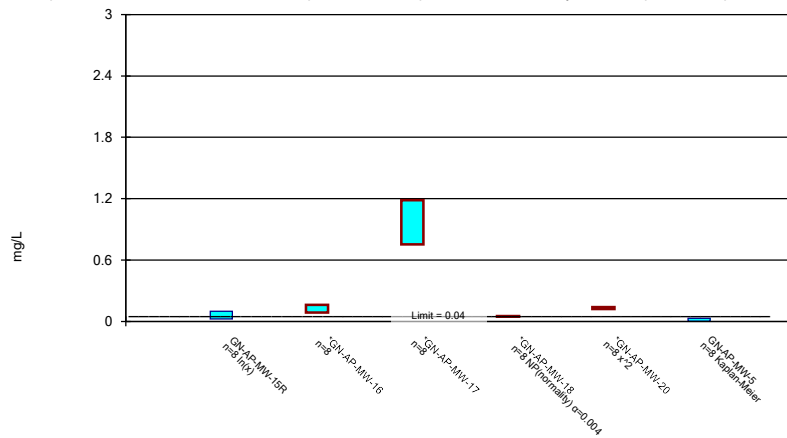
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

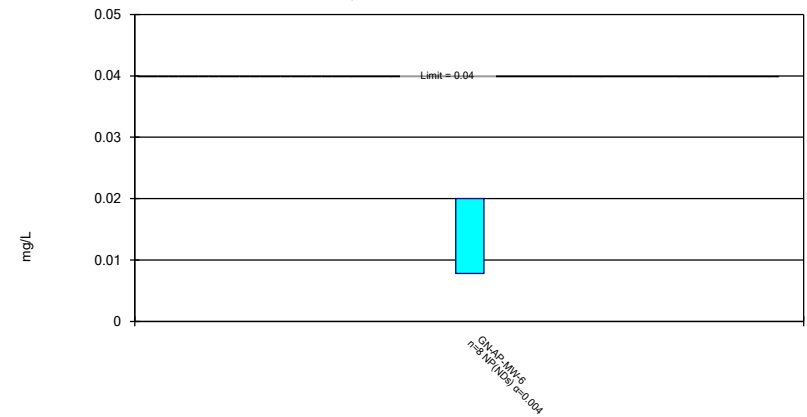
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

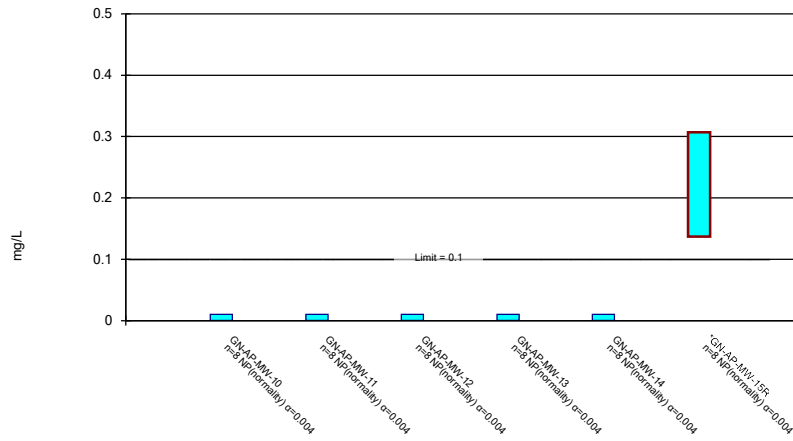
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

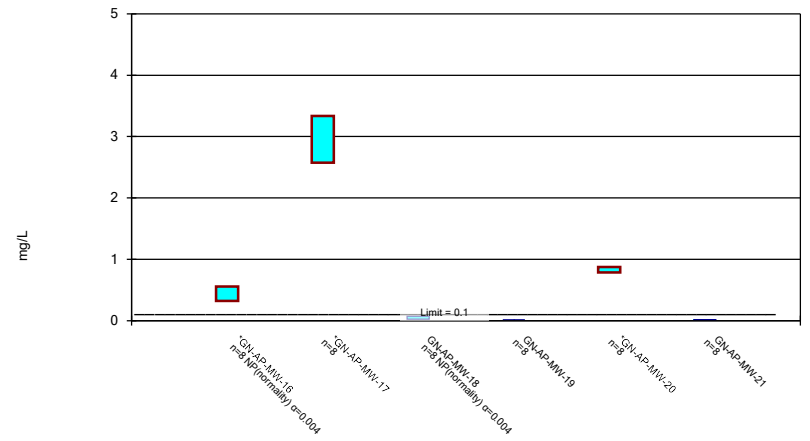
Compliance limit is exceeded.*



Constituent: Molybdenum Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

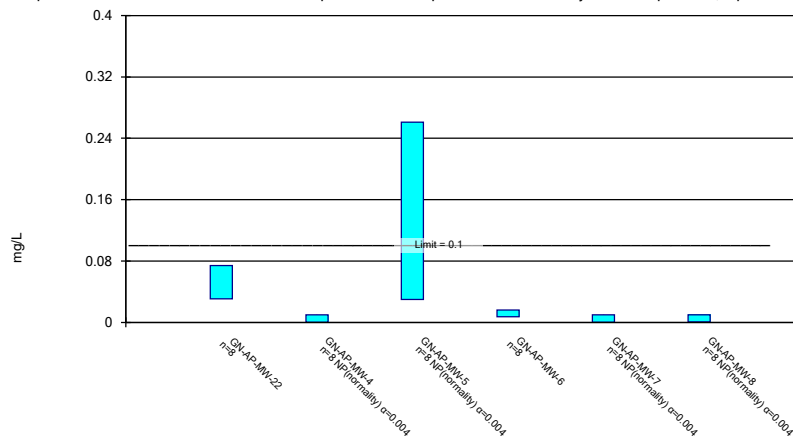
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

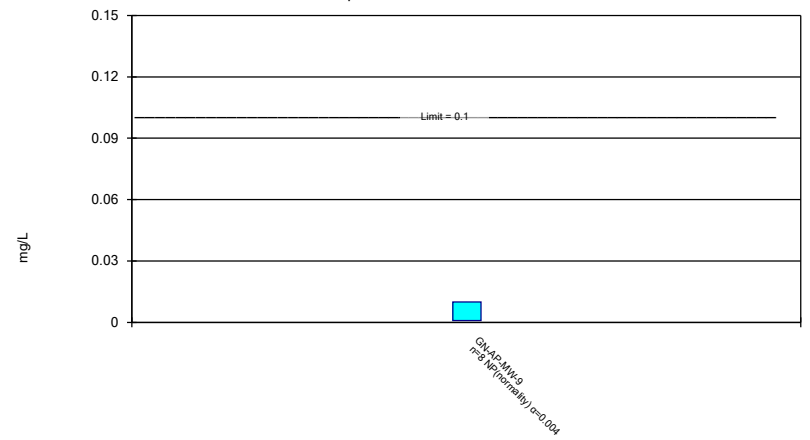
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

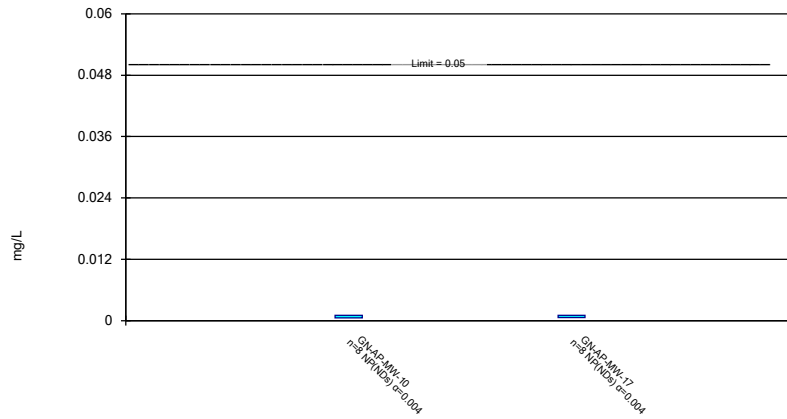
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

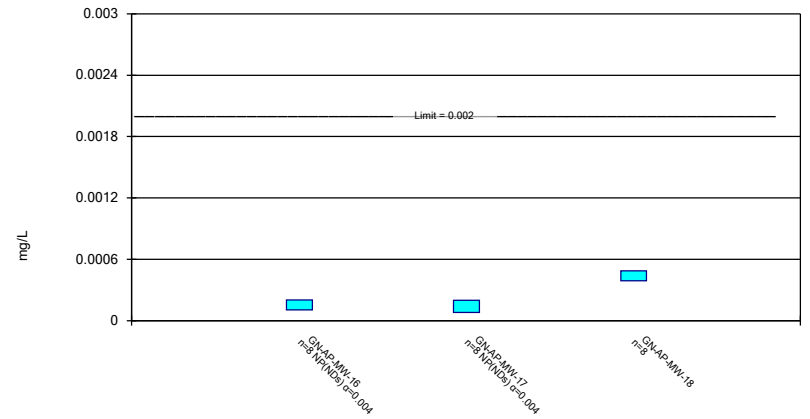
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
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: Thallium Analysis Run 4/3/2023 3:49 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-17
9/16/2019	<0.001015	<0.00102			<0.001015	
9/17/2019			<0.00102			<0.001015
9/18/2019				<0.00102		
2/17/2020	<0.001015					
2/18/2020		<0.00102				
2/19/2020			<0.00102			
2/25/2020				<0.00102	<0.001015	
2/26/2020						<0.001015
7/22/2020	<0.001015					
7/23/2020			<0.00102			
7/27/2020		<0.00102				
7/28/2020				<0.00102	<0.001015	
7/29/2020						0.000845 (J)
4/5/2021	<0.001015	<0.00102			<0.001015	
4/6/2021			<0.00102	<0.00102		0.000633 (J)
9/21/2021	<0.001015					
9/22/2021		<0.00102	<0.00102			
9/28/2021				<0.00102	<0.001015	
9/29/2021						<0.001015
4/20/2022						0.00068 (J)
4/27/2022			<0.00102		<0.001015	
5/2/2022	<0.001015			<0.00102		
5/3/2022		<0.00102				
8/30/2022					<0.001015	<0.001015
8/31/2022				<0.00102		
9/6/2022	<0.001015	<0.00102	<0.00102			
1/24/2023				<0.00102		
1/25/2023	0.00275					
1/30/2023					0.000516 (J)	0.00191
1/31/2023			<0.00102			
2/6/2023		<0.00102				
Mean	0.001232	0.00102	0.00102	0.00102	0.0009526	0.001016
Std. Dev.	0.0006134	0	0	0	0.0001764	0.0003943
Upper Lim.	0.00275	0.00102	0.00102	0.00102	0.001015	0.001164
Lower Lim.	0.001015	0.00102	0.00102	0.00102	0.000516	0.0005599

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-6	GN-AP-MW-7
9/18/2019	<0.00102	<0.001015	<0.00102	<0.00102
2/18/2020	<0.00102			
2/25/2020		<0.001015		
2/26/2020			<0.00102	<0.00102
7/22/2020		<0.001015		
7/27/2020	<0.00102			
7/28/2020			<0.00102	<0.00102
4/5/2021	<0.00102			
4/7/2021			<0.00102	<0.00102
4/12/2021		<0.001015		
9/22/2021	<0.00102			
9/27/2021			<0.00102	<0.00102
9/28/2021		<0.001015		
4/19/2022	<0.00102			
4/20/2022		<0.001015		
5/3/2022			<0.00102	<0.00102
8/30/2022	<0.00102	<0.001015	<0.00102	<0.00102
1/24/2023		0.00188		
1/25/2023	<0.00102			<0.00102
2/6/2023			<0.00102	
Mean	0.00102	0.001123	0.00102	0.00102
Std. Dev.	0	0.0003058	0	0
Upper Lim.	0.00102	0.00188	0.00102	0.00102
Lower Lim.	0.00102	0.001015	0.00102	0.00102

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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			
8/31/2022	0.000173 (J)					0.000483
9/6/2022		0.000164 (J)	0.0033		0.000568	
9/7/2022				0.000532		
1/24/2023						0.000708
1/25/2023		0.000212				
1/31/2023					0.000621	
2/1/2023				0.00063		
2/6/2023	0.000194 (J)		0.00233			
Mean	0.00202	0.001995	0.00351	0.002222	0.001734	0.001335
Std. Dev.	0.002468	0.002488	0.001272	0.002302	0.002025	0.001502
Upper Lim.	0.005	0.005	0.004858	0.005	0.005	0.005
Lower Lim.	0.000173	0.000164	0.002162	0.00043	0.000441	0.000483

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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
8/30/2022	0.00556	0.00745	0.00265	0.00258	0.00359	0.00144
1/24/2023			0.00255		0.00399	
1/25/2023				0.00165		
1/30/2023	0.00588	0.00753				
2/6/2023						0.000813
Mean	0.005329	0.009269	0.002991	0.002283	0.003949	0.001367
Std. Dev.	0.0004958	0.00138	0.0005358	0.0004628	0.0003212	0.0004952
Upper Lim.	0.005854	0.01073	0.00416	0.002773	0.004289	0.001891
Lower Lim.	0.004803	0.007806	0.00255	0.001792	0.003608	0.0008418

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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)	
8/30/2022	0.00018 (J)	0.000129 (J)	0.000217	0.000172 (J)	0.000101 (J)	
8/31/2022						0.00113
1/25/2023					0.000136 (J)	0.000553
2/6/2023	0.000115 (J)		0.00034	0.000114 (J)		
2/7/2023		0.000196 (J)				
Mean	0.001511	0.001976	0.002002	0.001959	0.001973	0.001272
Std. Dev.	0.002189	0.002504	0.002483	0.002518	0.002507	0.0005622
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.001837
Lower Lim.	0.000115	0.000129	0.000148	9.55E-05	0.000101	0.0007341

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
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
8/31/2022	0.00274
1/25/2023	0.00295
Mean	0.00266
Std. Dev.	0.0003977
Upper Lim.	0.003082
Lower Lim.	0.002238

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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			
8/31/2022	0.0138					0.0551
9/6/2022		0.00885	0.0776		0.0835	
9/7/2022				0.0422		
1/24/2023						0.056
1/25/2023		0.00984				
1/31/2023					0.067	
2/1/2023				0.0378		
2/6/2023	0.013		0.0741			
Mean	0.01343	0.009005	0.07688	0.04024	0.07188	0.06194
Std. Dev.	0.0005651	0.0005953	0.003362	0.002261	0.006315	0.00892
Upper Lim.	0.01402	0.009636	0.08044	0.04263	0.07857	0.07117
Lower Lim.	0.01283	0.008374	0.07331	0.03784	0.06518	0.05286

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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
8/30/2022	0.0678	0.141	0.0573	0.0146	0.0537	0.0425
1/24/2023			0.055		0.0532	
1/25/2023				0.0134		
1/30/2023	0.0894	0.123				
2/6/2023						0.0403
Mean	0.05148	0.1181	0.0518	0.01589	0.05841	0.0379
Std. Dev.	0.01874	0.01277	0.003301	0.002385	0.00407	0.007901
Upper Lim.	0.07028	0.1316	0.0553	0.01834	0.06273	0.04627
Lower Lim.	0.03342	0.1046	0.0483	0.01348	0.0541	0.02953

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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	
8/30/2022	0.0284	0.0157	0.0234	0.0219	0.0188	
8/31/2022						0.018
1/25/2023					0.0203	0.0134
2/6/2023	0.0256		0.0204	0.02		
2/7/2023		0.0151				
Mean	0.03539	0.01879	0.02614	0.02286	0.02305	0.01796
Std. Dev.	0.007688	0.006625	0.004966	0.002034	0.003638	0.002231
Upper Lim.	0.04354	0.0344	0.0314	0.02502	0.02691	0.02033
Lower Lim.	0.02724	0.0151	0.02087	0.02071	0.01919	0.0156

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
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
8/31/2022	0.114
1/25/2023	0.111
Mean	0.1111
Std. Dev.	0.004853
Upper Lim.	0.1163
Lower Lim.	0.106

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-20
9/16/2019	<0.0002		
9/17/2019		<0.001	
9/18/2019			<0.0002
2/25/2020	<0.0002		<0.0002
2/26/2020		<0.001	
7/22/2020			<0.0002
7/28/2020	<0.0002		
7/29/2020		<0.001	
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)		
8/30/2022	<0.0002	0.000271	0.000104 (J)
1/24/2023			<0.0002
1/30/2023	<0.0002	0.000261	
Mean	0.0001725	0.0005929	0.0001546
Std. Dev.	5.122E-05	0.000344	5.067E-05
Upper Lim.	0.0002	0.001	0.0002
Lower Lim.	8E-05	0.000261	8E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
9/16/2019	<0.01	<0.01	<0.00102			
9/17/2019				<0.00102	<0.01	
9/18/2019						<0.00102
2/17/2020	<0.01	<0.01				
2/18/2020			<0.00102			
2/19/2020				<0.00102	<0.01	
2/25/2020						<0.00102
7/22/2020	<0.01	<0.01				
7/23/2020					<0.01	
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			
8/31/2022	0.000378 (J)					0.000323 (J)
9/6/2022		0.000929 (J)	0.000347 (J)		0.000289 (J)	
9/7/2022				0.000286 (J)		
1/24/2023						<0.00102
1/25/2023		0.00101 (J)				
1/31/2023					0.000209 (J)	
2/1/2023				<0.00102		
2/6/2023	0.0003 (J)		0.000279 (J)			
Mean	0.003933	0.004281	0.0006717	0.0006636	0.00391	0.00072
Std. Dev.	0.005024	0.004737	0.000374	0.0003817	0.005043	0.0003569
Upper Lim.	0.01	0.01	0.00102	0.00102	0.01	0.00102
Lower Lim.	0.00025	0.00065	0.000278	0.00027	0.000209	0.00027

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
9/16/2019	<0.001015					
9/17/2019		<0.00102				
9/18/2019			<0.00102	<0.00102	<0.00102	<0.00102
2/18/2020				<0.00102		
2/25/2020	<0.001015		<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	<0.001015					<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
8/30/2022	<0.001015	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
1/24/2023			<0.00102		<0.00102	
1/25/2023				<0.00102		
1/30/2023	0.000272 (J)	<0.00102				
2/6/2023						<0.00102
Mean	0.0006476	0.0007621	0.0007455	0.0007445	0.0009537	0.0008512
Std. Dev.	0.0003942	0.0003568	0.0003797	0.0003808	0.00048	0.0003127
Upper Lim.	0.001015	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 4/3/2023 3:54 PM View: Confidence Intervals
 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
9/17/2019		<0.01				<0.00102
9/18/2019	<0.001015		<0.01	<0.00102	<0.00102	
2/18/2020		<0.01				
2/25/2020						<0.00102
2/26/2020	<0.001015		<0.01	<0.00102	<0.00102	
7/27/2020		<0.01				
7/28/2020	<0.001015		<0.01	<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)	
8/30/2022	<0.001015	0.00055 (J)	0.000268 (J)	<0.00102	<0.00102	
8/31/2022						0.000367 (J)
1/25/2023					<0.00102	<0.00102
2/6/2023	0.000237 (J)		0.000449 (J)	<0.00102		
2/7/2023		0.000692 (J)				
Mean	0.0006468	0.004214	0.003961	0.0007511	0.0007907	0.000675
Std. Dev.	0.0003944	0.004792	0.005001	0.0003719	0.0003196	0.0003692
Upper Lim.	0.001015	0.01	0.01	0.00102	0.00102	0.00102
Lower Lim.	0.000237	0.00055	0.000268	0.000259	0.00035	0.00031

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
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)
8/31/2022	0.000286 (J)
1/25/2023	<0.00102
Mean	0.0006589
Std. Dev.	0.0003862
Upper Lim.	0.00102
Lower Lim.	0.000286

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-15R	GN-AP-MW-16	GN-AP-MW-18
9/16/2019	<0.000203	<0.005			<0.005	
9/17/2019			<0.0002			
9/18/2019				<0.005		<0.005
2/17/2020	<0.000203					
2/18/2020		<0.005				
2/19/2020			<0.0002			
2/25/2020				<0.005	<0.005	<0.005
7/22/2020	<0.000203					<0.005
7/27/2020		<0.005	<0.0002			
7/28/2020				<0.005	<0.005	
4/5/2021	<0.000203	0.000113 (J)			0.000679	
4/6/2021			0.000142 (J)	0.000352		0.000633
9/21/2021	<0.000203					
9/22/2021		0.00016 (J)	<0.0002			
9/28/2021				0.0004	0.00095	0.00132
4/26/2022						0.0016
4/27/2022					0.0007	
5/2/2022	<0.000203		0.00014 (J)	0.00027		
5/3/2022		0.00022				
8/30/2022					0.000978	0.00194
8/31/2022				0.000193 (J)		
9/6/2022	<0.000203	0.00019 (J)				
9/7/2022			9.4E-05 (J)			
1/24/2023				0.000344		0.00238
1/25/2023	7.5E-05 (J)					
1/30/2023					0.00119	
2/1/2023			0.000152 (J)			
2/6/2023		0.000225				
Mean	0.000187	0.001988	0.000166	0.00207	0.002437	0.002859
Std. Dev.	4.525E-05	0.002494	4.01E-05	0.002427	0.002128	0.001841
Upper Lim.	0.000203	0.005	0.0002	0.005	0.005	0.002242
Lower Lim.	7.5E-05	0.000113	9.4E-05	0.000193	0.000679	0.0009226

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-19	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-8
9/17/2019				<0.0002		<0.0002
9/18/2019	<0.005	<0.005	<0.005		<0.0002	
2/18/2020	<0.005			<0.0002		
2/25/2020						<0.0002
2/26/2020		<0.005	<0.005		<0.0002	
7/27/2020	<0.005			<0.0002		
7/28/2020		<0.005	<0.005		<0.0002	
7/29/2020						<0.0002
4/5/2021	9.07E-05 (J)			<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
9/22/2021	0.00011 (J)					
9/27/2021		0.00024	0.00031	<0.0002	<0.0002	
4/19/2022	0.00017 (J)					
5/2/2022				<0.0002		<0.0002
5/3/2022		0.00116	0.00015 (J)		9E-05 (J)	
8/30/2022	0.000137 (J)	0.00109	0.000334	7.8E-05 (J)	0.000112 (J)	
8/31/2022						<0.0002
1/25/2023	0.000132 (J)					<0.0002
2/6/2023		0.000721	0.000147 (J)		0.000209	
2/7/2023				<0.0002		
Mean	0.001955	0.002323	0.002034	0.0001847	0.0001634	0.0001868
Std. Dev.	0.002522	0.002238	0.002457	4.313E-05	5.343E-05	3.73E-05
Upper Lim.	0.005	0.001162	0.005	0.0002	0.000209	0.0002
Lower Lim.	9.07E-05	0.0003161	0.000147	7.8E-05	9E-05	9.45E-05

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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)			
8/31/2022	0.73 (U)					0.868 (U)
9/6/2022		0.101 (U)	0.847 (U)		1.92	
9/7/2022				0.895 (U)		
1/24/2023						0.984
1/25/2023		0.0749 (U)				
1/31/2023					0.93	
2/1/2023				0.682 (U)		
2/6/2023	0.256 (U)		1.06			
Mean	0.4484	0.2566	1.228	0.7661	0.92	1.149
Std. Dev.	0.2276	0.1982	0.3065	0.1906	0.5307	0.5123
Upper Lim.	0.6896	0.4668	1.553	0.9681	1.482	1.582
Lower Lim.	0.2072	0.0465	0.9035	0.5641	0.3575	0.7319

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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)
8/30/2022	4.95	1.14	1.46	1	12.7	0.697 (U)
1/24/2023			1.28		11.9	
1/25/2023				0.626 (U)		
1/30/2023	6.1	0.926 (U)				
2/6/2023						0.38 (U)
Mean	4.295	1.293	1.554	0.7953	12.66	0.5236
Std. Dev.	0.9809	0.4651	0.4141	0.437	4.773	0.3403
Upper Lim.	5.335	1.786	1.993	1.258	15.7	0.8843
Lower Lim.	3.255	0.8001	1.115	0.3321	1.49	0.163

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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)	
8/30/2022	0.759 (U)	1.11	0.775 (U)	0.856 (U)	0.842 (U)	
8/31/2022						0.41 (U)
1/25/2023					0.658 (U)	0.309 (U)
2/6/2023	0.582 (U)		0.147 (U)	0.683 (U)		
2/7/2023		0.885 (U)				
Mean	0.5604	0.73	0.8279	0.5428	0.6103	0.3961
Std. Dev.	0.2354	0.2796	0.4245	0.2086	0.157	0.1747
Upper Lim.	0.8099	1.026	1.278	0.7639	0.7767	0.5812
Lower Lim.	0.3109	0.4336	0.3779	0.3216	0.4438	0.2109

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
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
8/31/2022	0.741 (U)
1/25/2023	0.441 (U)
Mean	0.6025
Std. Dev.	0.3178
Upper Lim.	0.9393
Lower Lim.	0.2657

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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			
8/31/2022	<0.125					0.0842 (J)
9/6/2022		<0.125	<0.125		0.0891 (J)	
9/7/2022				<0.125		
1/24/2023						0.0768 (J)
1/25/2023		<0.125				
1/31/2023					0.106 (J)	
2/1/2023				0.0758 (J)		
2/6/2023	<0.125		0.0753 (J)			
Mean	0.1029	0.1035	0.0904	0.09781	0.1083	0.08929
Std. Dev.	0.03181	0.03085	0.03062	0.02763	0.02549	0.01388
Upper Lim.	0.125	0.125	0.08323	0.125	0.1354	0.104
Lower Lim.	0.051	0.0546	0.05619	0.06	0.08132	0.07458

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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
8/30/2022	0.114 (J)	0.115 (J)	<0.125	<0.125	<0.125	<0.125
1/24/2023			<0.125		<0.125	
1/25/2023				<0.125		
1/30/2023	0.117 (J)	0.123 (J)				
2/6/2023						0.0676 (J)
Mean	0.1218	0.1646	0.09649	0.09886	0.1036	0.0954
Std. Dev.	0.02289	0.03665	0.03152	0.03171	0.0304	0.02542
Upper Lim.	0.1461	0.2035	0.125	0.125	0.125	0.125
Lower Lim.	0.09756	0.1258	0.0551	0.0507	0.0566	0.0676

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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	
8/30/2022	<0.125	<0.125	<0.125	<0.125	<0.125	
8/31/2022						<0.125
1/25/2023					<0.125	0.0614 (J)
2/6/2023	0.0686 (J)		0.0991 (J)	<0.125		
2/7/2023		<0.125				
Mean	0.0897	0.1038	0.09021	0.1077	0.0961	0.09275
Std. Dev.	0.02448	0.03068	0.02671	0.0249	0.03261	0.02562
Upper Lim.	0.09048	0.125	0.09681	0.125	0.125	0.1199
Lower Lim.	0.0655	0.0506	0.06042	0.0634	0.0523	0.06559

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
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)
8/31/2022	0.089 (J)
1/25/2023	0.101 (J)
Mean	0.1296
Std. Dev.	0.02973
Upper Lim.	0.1611
Lower Lim.	0.09812

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-17	GN-AP-MW-19	GN-AP-MW-5
9/16/2019	<0.000203				
9/17/2019		<0.0002	<0.000203		
9/18/2019				<0.0002	<0.005
2/17/2020	<0.000203				
2/18/2020				<0.0002	
2/19/2020		<0.0002			
2/26/2020			<0.000203		<0.005
7/22/2020	<0.000203				
7/27/2020		<0.0002		<0.0002	
7/28/2020					<0.005
7/29/2020			<0.000203		
4/5/2021	<0.000203			<0.0002	
4/6/2021		0.000106 (J)	<0.000203		
4/7/2021					0.00014 (J)
9/21/2021	<0.000203				
9/22/2021		<0.0002		<0.0002	
9/27/2021					0.0001 (J)
9/29/2021			<0.000203		
4/19/2022				0.00019 (J)	
4/20/2022			<0.000203		
5/2/2022	<0.000203	<0.0002			
5/3/2022					0.0001 (J)
8/30/2022			<0.000203	<0.0002	0.00013 (J)
9/6/2022	<0.000203				
9/7/2022		<0.0002			
1/25/2023	0.000107 (J)			<0.0002	
1/30/2023			7E-05 (J)		
2/1/2023		<0.0002			
2/6/2023					0.000353
Mean	0.000191	0.0001882	0.0001864	0.0001987	0.001978
Std. Dev.	3.394E-05	3.323E-05	4.702E-05	3.536E-06	0.002504
Upper Lim.	0.000203	0.0002	0.000203	0.0002	0.005
Lower Lim.	0.000107	0.000106	7E-05	0.00019	0.0001

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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
8/30/2022		0.143	1.09	0.0456	0.117	<0.02
8/31/2022	0.026					
1/24/2023	0.0258			0.0457	0.138	
1/30/2023		0.198	1.33			
2/6/2023						<0.02
Mean	0.06015	0.1229	0.9685	0.04809	0.1304	0.02221
Std. Dev.	0.05469	0.03579	0.2037	0.002245	0.008927	0.01182
Upper Lim.	0.09779	0.1608	1.184	0.0507	0.1396	0.03088
Lower Lim.	0.02231	0.08494	0.7526	0.0456	0.121	0.002857

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-6
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)
8/30/2022	0.00779 (J)
2/6/2023	<0.02
Mean	0.0182
Std. Dev.	0.004276
Upper Lim.	0.02
Lower Lim.	0.00779

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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			
8/31/2022	0.000158 (J)					0.138
9/6/2022		0.000269	0.000272		0.000701	
9/7/2022				0.000315		
1/24/2023						0.143
1/25/2023		0.000291				
1/31/2023					0.000984	
2/1/2023				0.000341		
2/6/2023	0.000249		0.000316			
Mean	0.003881	0.003941	0.003948	0.003949	0.004128	0.1751
Std. Dev.	0.005067	0.005017	0.005012	0.00501	0.004866	0.05831
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.307
Lower Lim.	0.000158	0.00026	0.000272	0.0003	0.000298	0.137

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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
8/30/2022	0.529	2.84	0.069	0.0144	0.785	0.0101
1/24/2023			0.071		0.915	
1/25/2023				0.0154		
1/30/2023	0.556	3.06				
2/6/2023						0.012
Mean	0.4559	2.954	0.04515	0.01384	0.8288	0.01132
Std. Dev.	0.1049	0.3587	0.02146	0.0008991	0.04205	0.003111
Upper Lim.	0.556	3.334	0.071	0.01479	0.8733	0.01462
Lower Lim.	0.32	2.574	0.0228	0.01288	0.7842	0.008023

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals

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
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	
8/30/2022	0.0418	0.000242	0.0384	0.00761	0.000281	
8/31/2022						0.000733
1/25/2023					0.000484	0.000577
2/6/2023	0.0331		0.0299	0.00638		
2/7/2023		0.000994				
Mean	0.05248	0.003992	0.09351	0.01185	0.003934	0.004249
Std. Dev.	0.02048	0.004982	0.0905	0.004109	0.005023	0.004764
Upper Lim.	0.07418	0.01	0.261	0.01621	0.01	0.01
Lower Lim.	0.03077	0.000137	0.0299	0.007496	0.00021	0.000577

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9
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
8/31/2022	0.00128
1/25/2023	0.00114
Mean	0.004433
Std. Dev.	0.004612
Upper Lim.	0.01
Lower Lim.	0.000821

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-17
9/16/2019	<0.00102	
9/17/2019		<0.001015
2/17/2020	<0.00102	
2/26/2020		<0.001015
7/22/2020	<0.00102	
7/29/2020		<0.001015
4/5/2021	<0.00102	
4/6/2021		<0.001015
9/21/2021	<0.00102	
9/29/2021		<0.001015
4/20/2022		<0.001015
5/2/2022	0.00055 (J)	
8/30/2022		<0.001015
8/31/2022	0.000532 (J)	
1/30/2023		0.00059 (J)
2/6/2023	<0.00102	
Mean	0.0009002	0.0009619
Std. Dev.	0.0002218	0.0001503
Upper Lim.	0.00102	0.001015
Lower Lim.	0.000532	0.00059

Confidence Interval

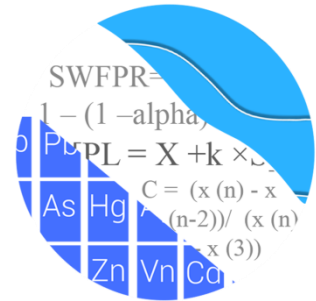
Constituent: Thallium (mg/L) Analysis Run 4/3/2023 3:54 PM View: Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18
9/16/2019	<0.000203		
9/17/2019		<0.0002	
9/18/2019			0.000479 (J)
2/25/2020	<0.000203		0.000426 (J)
2/26/2020		<0.0002	
7/22/2020			0.000456 (J)
7/28/2020	<0.000203		
7/29/2020		<0.0002	
4/5/2021	<0.000203		
4/6/2021		<0.0002	0.000389
9/28/2021	<0.000203		0.00036
9/29/2021		<0.0002	
4/20/2022		8E-05 (J)	
4/26/2022			0.00044
4/27/2022	<0.000203		
8/30/2022	<0.000203	9.1E-05 (J)	0.000487
1/24/2023			0.000472
1/30/2023	0.000105 (J)	0.000116 (J)	
Mean	0.0001908	0.0001609	0.0004386
Std. Dev.	3.465E-05	5.489E-05	4.503E-05
Upper Lim.	0.000203	0.0002	0.0004864
Lower Lim.	0.000105	8E-05	0.0003909

GROUNDWATER STATS CONSULTING

October 12, 2023

Southern Company Services
Attn: Mr. Greg Budd
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Gaston Ash Pond
2nd Semi-Annual Background Update and Analysis – July/August 2023

Dear Mr. Budd,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical background update and analysis of groundwater data for the July/August 2023 2nd 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-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 do 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 interwell prediction and tolerance limits.

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 Andrew Collins, Project Manager for 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: 63
- # Constituents: 7
- # Downgradient wells: 19

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, interwell prediction limits were utilized for the statistical analysis of all Appendix III constituents.

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, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after screening for any new outliers. 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 Fall 2023

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.

Outlier Analysis

Prior to constructing prediction limits, proposed background data through August 2023 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 were used to identify potential outliers and outliers were identified by Tukey's test for pH. Potential outliers that are identified by Tukey's test, but are not greatly different from the rest of the data, are not flagged, which is the case for pH. Also, outliers that are not identified by Tukey's test may be identified visually and flagged in order to construct statistical limits that are conservative from a regulatory perspective. Previously flagged outliers were confirmed and no additional values were flagged as outliers during this update.

Outliers were flagged with "o" in the database and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. 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 summary of Tukey's test results along with a list of flagged values follows this letter (Figure C).

Trend Testing

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 (Figure D). When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data may be 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. No statistically significant trends were identified; therefore, no adjustments were made to any of the records.

A statistically significant increasing 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 at that time 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.

Evaluation of Appendix III Parameters – July/August 2023

Interwell Prediction Limits

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for all Appendix III parameters (Figure E). Interwell prediction limits pool upgradient well data through August 2023 to establish a background limit for an individual constituent. As mentioned earlier, although upgradient well GN-AP-MW-2 has been abandoned, the data represent groundwater quality upgradient of the facility; therefore, data from this well is included with all upgradient well data for calculation of statistical limits. The July/August 2023 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 at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure F). 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 6 sample events, these wells were 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, GN-AP-MW-16, GN-AP-MW-17, GN-AP-MW-18, 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-16, GN-AP-MW-17, GN-AP-MW-18, 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, GN-AP-MW-18, and GN-AP-MW-20

Decreasing:

- Boron: GN-AP-MW-5
- Chloride: GN-AP-MW-4
- pH: GN-AP-MW-17
- Sulfate: GN-AP-MW-5, GN-AP-MW-6, and GN-AP-MW-22
- TDS: GN-AP-MW-4, GN-AP-MW-5, and GN-AP-MW-8

Although increasing trends were identified for boron, calcium, and chloride at well GN-AP-MW-15R when the entire record of data is evaluated, more recent concentrations for these constituents, along with TDS, at this well have been steadily decreasing since early 2019.

Evaluation of Appendix IV Parameters – July/August 2023

Prior to evaluating Appendix IV parameters, upgradient well data were screened through visual screening and Tukey's outlier test for potential outliers and extreme trending patterns that would lead to artificially elevated statistical limits. A discussion of those findings is provided below.

Tukey's outlier test on pooled upgradient well data for Appendix IV parameters through August 2023 identified a low observation for combined radium 226 + 228; however, this value was similar to concentrations in neighboring wells upgradient of the facility. Therefore, no additional values were flagged.

Additionally, downgradient well data through August 2023 were screened through visual screening using time series graphs. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is particular justification for excluding them. No changes to previously flagged data were made and no additional values were flagged. All flagged values may be seen on the Outlier Summary following this letter (Figure C).

Interwell Upper Tolerance Limits

Background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through August 2023. 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 screened background as the statistical limit, were constructed (Figure G). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. A summary of the upper tolerance limits follows this letter.

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 H) in the confidence interval comparisons described below.

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) were updated during this 2023 2nd semi-

annual statistical analysis. The GWPS will be updated again during the 2025 2nd semi-annual statistical analysis.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through August 2023 for each of the Appendix IV parameters (Figure I). 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 as interval limits when n=8, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

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. Exceedances were noted for the following well/constituent pairs:

- Combined Radium 226 + 228: GN-AP-MW-20
- 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

Trend Test Evaluation – Appendix IV

When confidence interval exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 95% confidence level (Figure J). Utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically

increasing the false negative rate. Upgradient wells are included in the trend analyses for all parameters found to exceed their confidence interval in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of variability in groundwater which may be unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- 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

Decreasing:

- Combined Radium 226 + 228: GN-AP-MW-20
- Molybdenum: GN-AP-MW-3 (upgradient)

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,



Abdul Diane
Groundwater Analyst

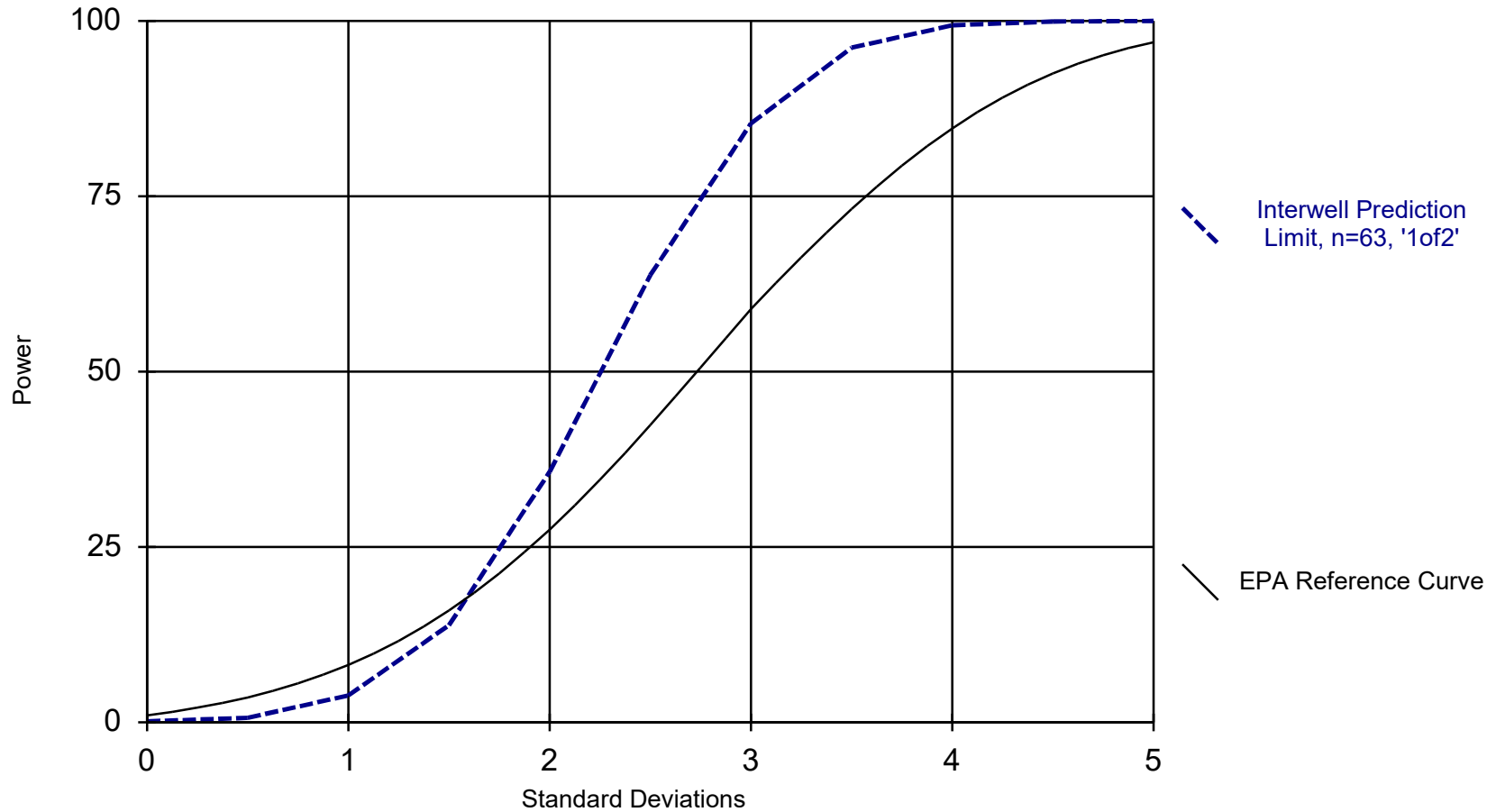


Andrew T. Collins
Project Manager

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Interwell Power Curve



Kappa = 2.164, based on 19 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

100% Non-Detects: Appendix IV Downgradient

Analysis Run 10/4/2023 8:21 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Antimony (mg/L)

GN-AP-MW-10, GN-AP-MW-13, GN-AP-MW-18, GN-AP-MW-21, GN-AP-MW-22, GN-AP-MW-4, 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-14, GN-AP-MW-17, GN-AP-MW-20, GN-AP-MW-6, GN-AP-MW-7, GN-AP-MW-9

Lead (mg/L)

GN-AP-MW-10, GN-AP-MW-12, GN-AP-MW-15R, 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-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-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-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

Upgradient Wells Trend Tests - All Results (No Significant)

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 10:03 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-3 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-38 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-39 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-40 (bg)	0	5	14	No	6	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-41 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-42 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-3 (bg)	0.09626	22	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-38 (bg)	-1.106	-9	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-39 (bg)	0.1096	2	14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-40 (bg)	-0.8295	-6	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-41 (bg)	-0.9605	-1	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-42 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-3 (bg)	-0.0162	-29	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-38 (bg)	-0.7411	-9	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-39 (bg)	-0.3476	-7	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-40 (bg)	-0.2781	-9	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-41 (bg)	-0.2882	-11	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-42 (bg)	-0.2696	-11	-14	No	6	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-3 (bg)	0	40	92	No	22	68.18	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-38 (bg)	0	1	14	No	6	66.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-39 (bg)	-0.02469	-6	-14	No	6	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-40 (bg)	0.02641	9	14	No	6	66.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-41 (bg)	0	3	14	No	6	83.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-42 (bg)	-0.003885	-4	-14	No	6	50	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-3 (bg)	-0.002517	-17	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-38 (bg)	0.07242	1	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-39 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-40 (bg)	0.1383	3	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-41 (bg)	0.2824	7	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-42 (bg)	0.03293	1	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-3 (bg)	-0.1584	-46	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-38 (bg)	-3.086	-11	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-39 (bg)	-0.2253	-5	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-40 (bg)	-0.338	-5	-14	No	6	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-41 (bg)	-0.1217	-1	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-42 (bg)	-1.4	-11	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-3 (bg)	0	7	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-38 (bg)	-11.46	-9	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-39 (bg)	1.241	3	14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-40 (bg)	-9.015	-7	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-41 (bg)	-4.002	-4	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-42 (bg)	-1.648	-7	-14	No	6	0	n/a	n/a	0.01	NP

Appendix III Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.1015	n/a	7/31/2023	0.371	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-12	0.1015	n/a	7/18/2023	0.483	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-15R	0.1015	n/a	8/1/2023	2.1	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-16	0.1015	n/a	7/19/2023	1.51	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-17	0.1015	n/a	7/25/2023	3.56	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-18	0.1015	n/a	7/25/2023	1.65	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-20	0.1015	n/a	7/25/2023	4.79	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-21	0.1015	n/a	7/26/2023	1.33	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-22	0.1015	n/a	8/1/2023	0.833	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-5	0.1015	n/a	8/1/2023	0.464	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-6	0.1015	n/a	7/26/2023	1.41	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-7	0.1015	n/a	7/26/2023	1.16	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-11	38.28	n/a	7/31/2023	44.6	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-12	38.28	n/a	7/18/2023	69.3	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-13	38.28	n/a	7/19/2023	45.6	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-14	38.28	n/a	7/26/2023	53.8	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-15R	38.28	n/a	8/1/2023	95.2	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-16	38.28	n/a	7/19/2023	177	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-17	38.28	n/a	7/25/2023	379	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-18	38.28	n/a	7/25/2023	128	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-19	38.28	n/a	7/18/2023	52.9	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-20	38.28	n/a	7/25/2023	165	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-21	38.28	n/a	7/26/2023	70.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-22	38.28	n/a	8/1/2023	63.2	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-4	38.28	n/a	7/25/2023	47.5	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-5	38.28	n/a	8/1/2023	48.4	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-6	38.28	n/a	7/26/2023	61.8	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-7	38.28	n/a	7/26/2023	59.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-8	38.28	n/a	7/19/2023	60.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-11	5.645	n/a	7/31/2023	7.77	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-12	5.645	n/a	7/18/2023	18.7	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-15R	5.645	n/a	8/1/2023	86.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-16	5.645	n/a	7/19/2023	180	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-17	5.645	n/a	7/25/2023	532	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-18	5.645	n/a	7/25/2023	13.3	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-19	5.645	n/a	7/18/2023	14.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-20	5.645	n/a	7/25/2023	18.9	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-21	5.645	n/a	7/26/2023	21.8	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-22	5.645	n/a	8/1/2023	13.2	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-4	5.645	n/a	7/25/2023	8.49	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-5	5.645	n/a	8/1/2023	10.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-6	5.645	n/a	7/26/2023	14.9	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-7	5.645	n/a	7/26/2023	11.4	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-9	5.645	n/a	7/18/2023	9.03	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
pH (pH)	GN-AP-MW-17	8.18	5.87	7/25/2023	9.16	Yes	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-11	14.51	n/a	7/31/2023	69	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-12	14.51	n/a	7/18/2023	113	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-14	14.51	n/a	7/26/2023	91.9	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-15R	14.51	n/a	8/1/2023	233	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-16	14.51	n/a	7/19/2023	234	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-17	14.51	n/a	7/25/2023	493	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-18	14.51	n/a	7/25/2023	216	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-19	14.51	n/a	7/18/2023	28.2	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-20	14.51	n/a	7/25/2023	614	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-21	14.51	n/a	7/26/2023	108	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-22	14.51	n/a	8/1/2023	59.3	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-5	14.51	n/a	8/1/2023	20.7	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-6	14.51	n/a	7/26/2023	93.9	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-7	14.51	n/a	7/26/2023	91.8	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-9	14.51	n/a	7/18/2023	20.8	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-11	182.6	n/a	7/31/2023	242	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-12	182.6	n/a	7/18/2023	372	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-13	182.6	n/a	7/19/2023	199	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-14	182.6	n/a	7/26/2023	283	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-15R	182.6	n/a	8/1/2023	580	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-16	182.6	n/a	7/19/2023	746	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-17	182.6	n/a	7/25/2023	2010	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-18	182.6	n/a	7/25/2023	620	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:07 PM

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-19	182.6	n/a	7/18/2023	232	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-20	182.6	n/a	7/25/2023	950	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-21	182.6	n/a	7/26/2023	376	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-22	182.6	n/a	8/1/2023	299	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-4	182.6	n/a	7/25/2023	244	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-5	182.6	n/a	8/1/2023	228	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-6	182.6	n/a	7/26/2023	343	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-7	182.6	n/a	7/26/2023	312	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-8	182.6	n/a	7/19/2023	243	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-9	182.6	n/a	7/18/2023	219	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-10	0.1015	n/a	7/18/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-11	0.1015	n/a	7/31/2023	0.371	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-12	0.1015	n/a	7/18/2023	0.483	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-13	0.1015	n/a	7/19/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-14	0.1015	n/a	7/26/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-15R	0.1015	n/a	8/1/2023	2.1	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-16	0.1015	n/a	7/19/2023	1.51	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-17	0.1015	n/a	7/25/2023	3.56	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-18	0.1015	n/a	7/25/2023	1.65	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-19	0.1015	n/a	7/18/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-20	0.1015	n/a	7/25/2023	4.79	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-21	0.1015	n/a	7/26/2023	1.33	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-22	0.1015	n/a	8/1/2023	0.833	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-4	0.1015	n/a	7/25/2023	0.0943J	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-5	0.1015	n/a	8/1/2023	0.464	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-6	0.1015	n/a	7/26/2023	1.41	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-7	0.1015	n/a	7/26/2023	1.16	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-8	0.1015	n/a	7/19/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-9	0.1015	n/a	7/18/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-10	38.28	n/a	7/18/2023	38	No	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-11	38.28	n/a	7/31/2023	44.6	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-12	38.28	n/a	7/18/2023	69.3	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-13	38.28	n/a	7/19/2023	45.6	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-14	38.28	n/a	7/26/2023	53.8	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-15R	38.28	n/a	8/1/2023	95.2	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-16	38.28	n/a	7/19/2023	177	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-17	38.28	n/a	7/25/2023	379	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-18	38.28	n/a	7/25/2023	128	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-19	38.28	n/a	7/18/2023	52.9	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-20	38.28	n/a	7/25/2023	165	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-21	38.28	n/a	7/26/2023	70.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-22	38.28	n/a	8/1/2023	63.2	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-4	38.28	n/a	7/25/2023	47.5	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-5	38.28	n/a	8/1/2023	48.4	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-6	38.28	n/a	7/26/2023	61.8	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-7	38.28	n/a	7/26/2023	59.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-8	38.28	n/a	7/19/2023	60.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-9	38.28	n/a	7/18/2023	30.2	No	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-10	5.645	n/a	7/18/2023	2.72	No	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-11	5.645	n/a	7/31/2023	7.77	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-12	5.645	n/a	7/18/2023	18.7	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-13	5.645	n/a	7/19/2023	4.19	No	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-14	5.645	n/a	7/26/2023	4.43	No	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-15R	5.645	n/a	8/1/2023	86.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-16	5.645	n/a	7/19/2023	180	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-17	5.645	n/a	7/25/2023	532	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-18	5.645	n/a	7/25/2023	13.3	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-19	5.645	n/a	7/18/2023	14.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-20	5.645	n/a	7/25/2023	18.9	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-21	5.645	n/a	7/26/2023	21.8	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-22	5.645	n/a	8/1/2023	13.2	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-4	5.645	n/a	7/25/2023	8.49	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-5	5.645	n/a	8/1/2023	10.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-6	5.645	n/a	7/26/2023	14.9	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-7	5.645	n/a	7/26/2023	11.4	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-8	5.645	n/a	7/19/2023	3.51	No	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-9	5.645	n/a	7/18/2023	9.03	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Fluoride (mg/L)	GN-AP-MW-10	0.181	n/a	7/18/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-11	0.181	n/a	7/31/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-12	0.181	n/a	7/18/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-13	0.181	n/a	7/19/2023	0.0611J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-14	0.181	n/a	7/26/2023	0.104J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-15R	0.181	n/a	8/1/2023	0.0627J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-16	0.181	n/a	7/19/2023	0.111J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-17	0.181	n/a	7/25/2023	0.102J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-18	0.181	n/a	7/25/2023	0.0686J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-19	0.181	n/a	7/18/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-20	0.181	n/a	7/25/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:07 PM

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-21	0.181	n/a	7/26/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-22	0.181	n/a	8/1/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-4	0.181	n/a	7/25/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-5	0.181	n/a	8/1/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-6	0.181	n/a	7/26/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-7	0.181	n/a	7/26/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-8	0.181	n/a	7/19/2023	0.0855J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-9	0.181	n/a	7/18/2023	0.134	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
pH (pH)	GN-AP-MW-10	8.18	5.87	7/18/2023	7.05	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-11	8.18	5.87	7/31/2023	7.73	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-12	8.18	5.87	7/18/2023	7.26	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-13	8.18	5.87	7/19/2023	7.36	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-14	8.18	5.87	7/26/2023	7.36	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-15R	8.18	5.87	8/1/2023	7.48	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-16	8.18	5.87	7/19/2023	7.84	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-17	8.18	5.87	7/25/2023	9.16	Yes	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-18	8.18	5.87	7/25/2023	6.9	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-19	8.18	5.87	7/18/2023	7.61	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-20	8.18	5.87	7/25/2023	7.91	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-21	8.18	5.87	7/26/2023	7.44	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-22	8.18	5.87	8/1/2023	6.88	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-4	8.18	5.87	7/25/2023	7.2	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-5	8.18	5.87	8/1/2023	7.45	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-6	8.18	5.87	7/26/2023	7.05	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-7	8.18	5.87	7/26/2023	7.35	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-8	8.18	5.87	7/19/2023	7.24	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-9	8.18	5.87	7/18/2023	7.64	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-10	14.51	n/a	7/18/2023	4.01	No	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-11	14.51	n/a	7/31/2023	69	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-12	14.51	n/a	7/18/2023	113	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-13	14.51	n/a	7/19/2023	3.14	No	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-14	14.51	n/a	7/26/2023	91.9	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-15R	14.51	n/a	8/1/2023	233	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-16	14.51	n/a	7/19/2023	234	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-17	14.51	n/a	7/25/2023	493	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-18	14.51	n/a	7/25/2023	216	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-19	14.51	n/a	7/18/2023	28.2	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-20	14.51	n/a	7/25/2023	614	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-21	14.51	n/a	7/26/2023	108	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-22	14.51	n/a	8/1/2023	59.3	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-4	14.51	n/a	7/25/2023	11.4	No	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-5	14.51	n/a	8/1/2023	20.7	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-6	14.51	n/a	7/26/2023	93.9	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-7	14.51	n/a	7/26/2023	91.8	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-8	14.51	n/a	7/19/2023	3.93	No	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-9	14.51	n/a	7/18/2023	20.8	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-10	182.6	n/a	7/18/2023	166	No	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-11	182.6	n/a	7/31/2023	242	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-12	182.6	n/a	7/18/2023	372	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-13	182.6	n/a	7/19/2023	199	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-14	182.6	n/a	7/26/2023	283	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-15R	182.6	n/a	8/1/2023	580	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-16	182.6	n/a	7/19/2023	746	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-17	182.6	n/a	7/25/2023	2010	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-18	182.6	n/a	7/25/2023	620	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-19	182.6	n/a	7/18/2023	232	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-20	182.6	n/a	7/25/2023	950	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-21	182.6	n/a	7/26/2023	376	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-22	182.6	n/a	8/1/2023	299	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-4	182.6	n/a	7/25/2023	244	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-5	182.6	n/a	8/1/2023	228	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-6	182.6	n/a	7/26/2023	343	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-7	182.6	n/a	7/26/2023	312	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-8	182.6	n/a	7/19/2023	243	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-9	182.6	n/a	7/18/2023	219	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.03447	173	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.02745	179	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.2568	137	105	Yes	24	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-16	0.02302	106	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-17	0.08537	90	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.0532	97	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-20	0.1619	147	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-5	-0.23	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.297	119	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.481	118	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	5.182	144	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	24.74	157	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.305	127	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1971	135	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	9.848	155	105	Yes	24	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	3.293	183	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	11.09	180	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.3405	152	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5357	135	87	Yes	21	4.762	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-20	0.449	130	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-4	-1.991	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.4188	116	87	Yes	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.05972	-116	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.518	176	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	3.792	123	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	9.205	107	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	32.66	134	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-18	9.692	104	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.008	128	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-22	-12.58	-93	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-21.48	-140	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-6	-8.439	-97	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	1.864	150	87	Yes	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	7.165	167	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	4.492	113	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	19.43	131	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	78.3	154	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-18	11.88	123	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-20	9.367	109	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-10.77	-99	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-5	-26.88	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-7.546	-139	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	4.919	135	87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.03447	173	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.02745	179	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.2568	137	105	Yes	24	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-16	0.02302	106	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-17	0.08537	90	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.0532	97	87	Yes	21	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	0.1619	147	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-21	-0.03079	-24	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-22	-0.07118	-52	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-3 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-38 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-39 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-40 (bg)	0	5	14	No	6	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-41 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-42 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-5	-0.23	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-6	-0.09549	-62	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-7	-0.04403	-37	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.297	119	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.481	118	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-13	0.02963	7	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-14	-1.112	-24	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-15R	7.959	94	105	No	24	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	5.182	144	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	24.74	157	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.305	127	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-19	0.1704	32	87	No	21	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	3.186	77	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-21	2.561	58	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-22	1.229	31	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-3 (bg)	0.09626	22	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-38 (bg)	-1.106	-9	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-39 (bg)	0.1096	2	14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-4	0.1461	18	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-40 (bg)	-0.8295	-6	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-41 (bg)	-0.9605	-1	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-42 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-5	-1.916	-52	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-6	2.361	64	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-7	-1.942	-46	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-8	0.1265	14	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1971	135	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-12	-0.206	-75	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	9.848	155	105	Yes	24	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	3.293	183	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	11.09	180	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.3405	152	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5357	135	87	Yes	21	4.762	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	0.449	130	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-21	-0.01639	-2	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-22	-1.427	-19	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-3 (bg)	-0.0162	-29	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-38 (bg)	-0.7411	-9	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-39 (bg)	-0.3476	-7	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-4	-1.991	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-40 (bg)	-0.2781	-9	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-41 (bg)	-0.2882	-11	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-42 (bg)	-0.2696	-11	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-5	-2.871	-61	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-6	0.6268	8	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-7	0	-2	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.4188	116	87	Yes	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.05972	-116	-92	Yes	22	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)	-0.002517	-17	-87	No	21	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (pH)	GN-AP-MW-38 (bg)	0.07242	1	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-39 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-40 (bg)	0.1383	3	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-41 (bg)	0.2824	7	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-42 (bg)	0.03293	1	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.518	176	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	3.792	123	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-14	6.374	77	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-15R	15.05	85	105	No	24	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	9.205	107	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	32.66	134	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-18	9.692	104	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.008	128	87	Yes	21	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	3.513	31	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-21	-2.573	-24	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-22	-12.58	-93	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-3 (bg)	-0.1584	-46	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-38 (bg)	-3.086	-11	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-39 (bg)	-0.2253	-5	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-40 (bg)	-0.338	-5	-14	No	6	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-41 (bg)	-0.1217	-1	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-42 (bg)	-1.4	-11	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-21.48	-140	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-6	-8.439	-97	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-7	-8.006	-59	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	1.864	150	87	Yes	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-10	-1.237	-56	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	7.165	167	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	4.492	113	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-13	-1.503	-69	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-14	13.09	64	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-15R	32.29	70	105	No	24	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	19.43	131	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	78.3	154	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-18	11.88	123	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-19	1.751	68	87	No	21	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	9.367	109	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-21	-3.716	-19	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-22	-12.56	-41	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-3 (bg)	0	7	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-38 (bg)	-11.46	-9	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-39 (bg)	1.241	3	14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-10.77	-99	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-40 (bg)	-9.015	-7	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-41 (bg)	-4.002	-4	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-42 (bg)	-1.648	-7	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-5	-26.88	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-6	-0.2045	-2	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-7	-14.46	-49	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-7.546	-139	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	4.919	135	87	Yes	21	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/12/2023, 9:44 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg.N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.001015	n/a	n/a	n/a	64	95.31	n/a	n/a	0.03752	NP Inter
Arsenic (mg/L)	0.00105	n/a	n/a	n/a	64	54.69	n/a	n/a	0.03752	NP Inter
Barium (mg/L)	0.0302	n/a	n/a	n/a	64	0	n/a	n/a	0.03752	NP Inter
Beryllium (mg/L)	0.001015	n/a	n/a	n/a	64	100	n/a	n/a	0.03752	NP Inter
Cadmium (mg/L)	0.000855	n/a	n/a	n/a	64	92.19	n/a	n/a	0.03752	NP Inter
Chromium (mg/L)	0.00113	n/a	n/a	n/a	64	46.88	n/a	n/a	0.03752	NP Inter
Cobalt (mg/L)	0.00168	n/a	n/a	n/a	64	73.44	n/a	n/a	0.03752	NP Inter
Combined Radium 226 + 228 (pCi/L)	3	n/a	n/a	n/a	62	0	n/a	n/a	0.04158	NP Inter
Fluoride (mg/L)	0.181	n/a	n/a	n/a	66	60.61	n/a	n/a	0.03387	NP Inter
Lead (mg/L)	0.00128	n/a	n/a	n/a	64	79.69	n/a	n/a	0.03752	NP Inter
Lithium (mg/L)	0.02	n/a	n/a	n/a	64	100	n/a	n/a	0.03752	NP Inter
Mercury (mg/L)	0.0005	n/a	n/a	n/a	64	100	n/a	n/a	0.03752	NP Inter
Molybdenum (mg/L)	0.01015	n/a	n/a	n/a	64	39.06	n/a	n/a	0.03752	NP Inter
Selenium (mg/L)	0.001015	n/a	n/a	n/a	64	98.44	n/a	n/a	0.03752	NP Inter
Thallium (mg/L)	0.000709	n/a	n/a	n/a	64	79.69	n/a	n/a	0.03752	NP Inter

GASTON AP GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.001015	0.006
Arsenic	mg/L	0.00105	0.01
Barium	mg/L	0.0302	2
Beryllium	mg/L	0.001015	0.004
Cadmium	mg/L	0.000855	0.005
Chromium	mg/L	0.0113	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	0.01015	0.1
Selenium	mg/L	0.0102	0.05
Thallium	mg/L	0.000709	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 2023.

Appendix IV Confidence Intervals - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 8:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	15.67	10.26	5	Yes	8	4.641	0	None	x^3	0.01	Param.
Lithium (mg/L)	GN-AP-MW-16	0.1886	0.089	0.04	Yes	8	0.04699	0	None	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-17	1.258	0.8026	0.04	Yes	8	0.2149	0	None	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-18	0.0507	0.0456	0.04	Yes	8	0.002274	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-20	0.139	0.117	0.04	Yes	8	0.00902	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-15R	0.1779	0.1285	0.1	Yes	8	0.02558	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-16	0.5935	0.3909	0.1	Yes	8	0.1028	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-17	3.312	2.771	0.1	Yes	8	0.2553	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-20	0.8937	0.7833	0.1	Yes	8	0.05208	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 8:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-AP-MW-11	0.00322	0.001015	0.006	No	8	0.0009205	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-12	0.001015	0.001015	0.006	No	8	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-14	0.001015	0.001015	0.006	No	8	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-15R	0.001015	0.001015	0.006	No	8	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-16	0.001015	0.000516	0.006	No	8	0.0001764	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-17	0.001403	0.0004956	0.006	No	8	0.0004136	37.5	Kapla...	No	0.01	Param.
Antimony (mg/L)	GN-AP-MW-19	0.001015	0.001015	0.006	No	8	0	100	Kapla...	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-20	0.00188	0.000756	0.006	No	8	0.0003315	75	Kapla...	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-5	0.00132	0.00102	0.006	No	8	0.0001061	87.5	Kapla...	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-6	0.001015	0.001015	0.006	No	8	0	100	Kapla...	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-7	0.001015	0.001015	0.006	No	8	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-10	0.005	0.000173	0.01	No	8	0.00221	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-11	0.005	0.000149	0.01	No	8	0.002229	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-12	0.0043	0.002123	0.01	No	8	0.001027	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-13	0.005	0.00043	0.01	No	8	0.002063	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-14	0.005	0.000441	0.01	No	8	0.00205	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-15R	0.001063	0.0004803	0.01	No	8	0.0002751	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-16	0.005872	0.004878	0.01	No	8	0.0004687	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-17	0.01025	0.007428	0.01	No	8	0.001332	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-18	0.00416	0.00255	0.01	No	8	0.0005368	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-19	0.002442	0.001875	0.01	No	8	0.0002675	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-20	0.004287	0.003608	0.01	No	8	0.0003199	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-21	0.001536	0.0007068	0.01	No	8	0.000391	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-22	0.0001866	0.000133	0.01	No	8	0.00003094	37.5	Kapla...	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-4	0.005	0.000129	0.01	No	8	0.002242	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-5	0.005	0.000148	0.01	No	8	0.002212	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-6	0.0001628	0.0001058	0.01	No	8	0.0000422	37.5	Kapla...	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-7	0.005	0.000101	0.01	No	8	0.002243	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-8	0.001854	0.0005576	0.01	No	8	0.0006114	12.5	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-9	0.002984	0.002256	0.01	No	8	0.0003435	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-10	0.014	0.0128	2	No	8	0.0005657	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-11	0.009727	0.008361	2	No	8	0.0006446	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-12	0.07885	0.0726	2	No	8	0.002945	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-13	0.0429	0.03805	2	No	8	0.002284	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-14	0.07821	0.06121	2	No	8	0.00802	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-15R	0.06458	0.05244	2	No	8	0.005727	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-16	0.09017	0.0312	2	No	8	0.02782	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-17	0.1315	0.1045	2	No	8	0.01275	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-18	0.05504	0.04793	2	No	8	0.003354	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-19	0.0163	0.01348	2	No	8	0.001332	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-20	0.0605	0.05363	2	No	8	0.003241	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-21	0.04617	0.02931	2	No	8	0.007954	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-22	0.04045	0.02478	2	No	8	0.007394	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-4	0.0207	0.0151	2	No	8	0.002022	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-AP-MW-5	0.02906	0.02024	2	No	8	0.004163	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-6	0.02499	0.01963	2	No	8	0.002527	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-7	0.02504	0.01806	2	No	8	0.003292	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-8	0.01992	0.01403	2	No	8	0.00278	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-9	0.1141	0.1054	2	No	8	0.004132	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-AP-MW-16	0.000203	0.00008	0.005	No	8	0.0000526	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GN-AP-MW-17	0.001	0.000261	0.005	No	8	0.0003093	25	None	No	0.004	NP (normality)
Cadmium (mg/L)	GN-AP-MW-20	0.0001257	0.00008224	0.005	No	8	0.00005271	37.5	Kapla...	x ² (1/3)	0.01	Param.
Chromium (mg/L)	GN-AP-MW-10	0.01	0.00025	0.1	No	8	0.004491	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-11	0.01	0.00065	0.1	No	8	0.004238	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-12	0.001015	0.000278	0.1	No	8	0.0003714	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-13	0.00102	0.000228	0.1	No	8	0.0003788	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-14	0.001015	0.000209	0.1	No	8	0.0003937	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-15R	0.00102	0.000237	0.1	No	8	0.00037	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-16	0.001015	0.00021	0.1	No	8	0.0003789	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-17	0.00102	0.000225	0.1	No	8	0.0003843	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-18	0.00102	0.00024	0.1	No	8	0.0003842	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-19	0.0012	0.00024	0.1	No	8	0.000404	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-20	0.001077	0.00002226	0.1	No	8	0.0005141	50	Kapla...	No	0.01	Param.
Chromium (mg/L)	GN-AP-MW-21	0.001015	0.00032	0.1	No	8	0.0003104	75	Kapla...	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-22	0.001015	0.000237	0.1	No	8	0.0003853	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-4	0.01	0.00055	0.1	No	8	0.00428	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-5	0.01	0.000268	0.1	No	8	0.004467	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-6	0.001015	0.000259	0.1	No	8	0.0003693	62.5	None	No	0.004	NP (NDs)

Appendix IV Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 8:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GN-AP-MW-7	0.00102	0.000234	0.1	No	8	0.0003576	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-8	0.00102	0.000259	0.1	No	8	0.0003657	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-9	0.001015	0.000286	0.1	No	8	0.0003835	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-11	0.000203	0.000075	0.006	No	8	0.00004525	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-12	0.005	0.000113	0.006	No	8	0.002229	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-13	0.0001562	0.0001126	0.006	No	8	0.00003816	37.5	Kapla...	No	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-15R	0.005	0.000193	0.006	No	8	0.002179	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-16	0.005	0.000679	0.006	No	8	0.001867	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-18	0.002179	0.0009719	0.006	No	8	0.001665	25	Kapla...	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-19	0.005	0.0000907	0.006	No	8	0.002238	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-21	0.001123	0.0003407	0.006	No	8	0.002009	25	Kapla...	ln(x)	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-22	0.005	0.000087	0.006	No	8	0.002212	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-4	0.000203	0.000078	0.006	No	8	0.00004419	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-5	0.000209	0.00009	0.006	No	8	0.00005139	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-8	0.000203	0.0000945	0.006	No	8	0.00003836	87.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-10	0.6897	0.2083	5	No	8	0.2271	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-11	0.4217	0.04958	5	No	8	0.1755	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-12	1.561	0.8184	5	No	8	0.3502	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-13	1.113	0.5193	5	No	8	0.2803	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-14	1.616	0.4619	5	No	8	0.5445	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-15R	1.612	0.7521	5	No	8	0.5056	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-16	6.049	3.361	5	No	8	1.268	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-17	1.825	0.786	5	No	8	0.4903	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-18	2.343	1.139	5	No	8	0.5679	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-19	1.367	0.4808	5	No	8	0.4182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	15.67	10.26	5	Yes	8	4.641	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-21	0.9508	0.198	5	No	8	0.3551	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-22	0.8152	0.442	5	No	8	0.176	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-4	1.011	0.4151	5	No	8	0.2811	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-5	1.298	0.4631	5	No	8	0.3938	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-6	0.8233	0.3264	5	No	8	0.2344	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-7	0.9226	0.4329	5	No	8	0.231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-8	0.5868	0.2094	5	No	8	0.178	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-9	1.08	0.3766	5	No	8	0.3318	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-10	0.125	0.051	4	No	8	0.03181	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-11	0.125	0.0546	4	No	8	0.03085	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-12	0.125	0.0571	4	No	8	0.02875	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-13	0.125	0.06	4	No	8	0.02967	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-14	0.1337	0.07999	4	No	8	0.02533	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-15R	0.1029	0.06786	4	No	8	0.01652	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-16	0.1445	0.09545	4	No	8	0.02312	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-17	0.1977	0.1103	4	No	8	0.04127	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-18	0.125	0.0628	4	No	8	0.02927	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-19	0.125	0.0557	4	No	8	0.02595	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-20	0.125	0.0566	4	No	8	0.0304	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-21	0.125	0.0676	4	No	8	0.02582	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-22	0.125	0.0686	4	No	8	0.02502	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-4	0.125	0.0506	4	No	8	0.03068	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-5	0.09938	0.06658	4	No	8	0.02538	37.5	Kapla...	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-6	0.125	0.0862	4	No	8	0.01773	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-7	0.125	0.0523	4	No	8	0.02988	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-8	0.1185	0.06409	4	No	8	0.02567	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-9	0.1619	0.09884	4	No	8	0.02976	0	None	No	0.01	Param.
Lead (mg/L)	GN-AP-MW-11	0.000203	0.000107	0.015	No	8	0.00003394	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-13	0.000203	0.000106	0.015	No	8	0.00003429	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-14	0.0002	0.000069	0.015	No	8	0.00004632	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-17	0.000203	0.00007	0.015	No	8	0.00004702	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-19	0.000391	0.00019	0.015	No	8	0.00006812	75	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-5	0.005	0.0001	0.015	No	8	0.002235	25	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-15R	0.0848	0.0258	0.04	No	8	0.02087	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-16	0.1886	0.089	0.04	Yes	8	0.04699	0	None	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-17	1.258	0.8026	0.04	Yes	8	0.2149	0	None	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-18	0.0507	0.0456	0.04	Yes	8	0.002274	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-20	0.139	0.117	0.04	Yes	8	0.00902	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-5	0.0361	0.00862	0.04	No	8	0.008326	62.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-AP-MW-6	0.02	0.00779	0.04	No	8	0.004276	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-10	0.01015	0.000158	0.1	No	8	0.005145	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-11	0.01015	0.00026	0.1	No	8	0.005095	37.5	None	No	0.004	NP (normality)

Appendix IV Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 8:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	GN-AP-MW-12	0.01015	0.000272	0.1	No	8	0.005089	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-13	0.01015	0.0003	0.1	No	8	0.005088	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-14	0.01015	0.000298	0.1	No	8	0.004944	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-15R	0.1779	0.1285	0.1	Yes	8	0.02558	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-16	0.5935	0.3909	0.1	Yes	8	0.1028	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-17	3.312	2.771	0.1	Yes	8	0.2553	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-18	0.07109	0.02977	0.1	No	8	0.02152	0	None	x^3	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-19	0.01483	0.01314	0.1	No	8	0.0007954	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-20	0.8937	0.7833	0.1	Yes	8	0.05208	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-21	0.01252	0.008209	0.1	No	8	0.002034	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-22	0.0605	0.03337	0.1	No	8	0.01409	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-4	0.01015	0.000137	0.1	No	8	0.00506	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-5	0.215	0.0299	0.1	No	8	0.06143	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-6	0.01563	0.006165	0.1	No	8	0.004464	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-7	0.01015	0.00021	0.1	No	8	0.005101	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-8	0.01015	0.000577	0.1	No	8	0.004842	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-9	0.01015	0.000821	0.1	No	8	0.00469	37.5	None	No	0.004	NP (normality)
Selenium (mg/L)	GN-AP-MW-10	0.00102	0.000532	0.05	No	8	0.0002452	62.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GN-AP-MW-17	0.001015	0.00059	0.05	No	8	0.0001503	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-16	0.000203	0.000105	0.002	No	8	0.00003465	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-17	0.0002	0.00008	0.002	No	8	0.00005549	50	None	No	0.004	NP (normality)
Thallium (mg/L)	GN-AP-MW-18	0.0004777	0.0003888	0.002	No	8	0.00004198	0	None	No	0.01	Param.

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Gaston Data: Gaston Ash Pond Printed 10/11/2023, 4:38 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	-0.7797	-102	-62	Yes	20	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-16	0.009481	142	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-17	0.07765	132	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-18	0.00165	82	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-20	0.002942	70	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-15R	0.02137	146	81	Yes	24	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-16	0.03777	132	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-17	0.1544	109	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-20	0.02922	138	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-3 (bg)	-0.0003802	-120	-66	Yes	21	4.762	n/a	n/a	0.05	NP

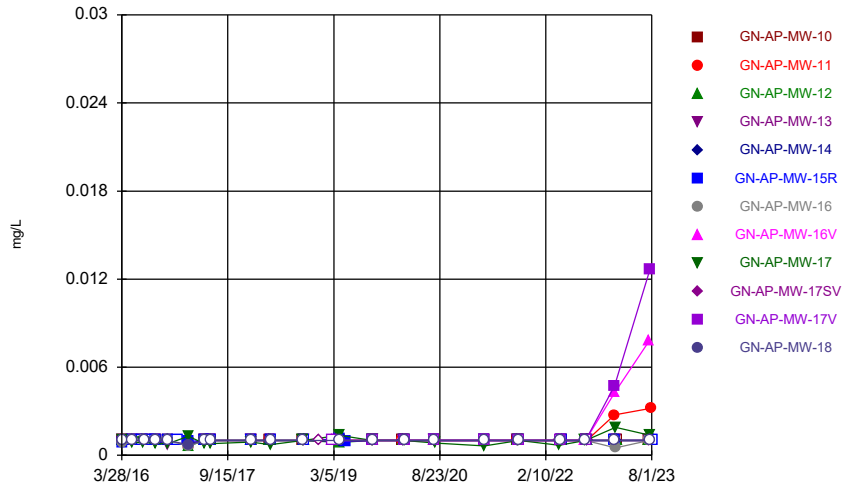
Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Gaston Data: Gaston Ash Pond Printed 10/11/2023, 4:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-2 (bg)	-0.09679	-28	-30	No	12	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	-0.7797	-102	-62	Yes	20	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-3 (bg)	0.01682	18	62	No	20	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-38 (bg)	0.1166	3	12	No	6	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-39 (bg)	0.2499	5	12	No	6	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-40 (bg)	0.1261	3	12	No	6	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-41 (bg)	0.06028	3	12	No	6	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-42 (bg)	0.1186	7	12	No	6	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-16	0.009481	142	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-17	0.07765	132	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-18	0.00165	82	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-2 (bg)	0	0	34	No	13	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-20	0.002942	70	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-3 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-38 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-39 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-40 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-41 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-42 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-15R	0.02137	146	81	Yes	24	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-16	0.03777	132	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-17	0.1544	109	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-2 (bg)	0	15	34	No	13	84.62	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-20	0.02922	138	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-3 (bg)	-0.0003802	-120	-66	Yes	21	4.762	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-38 (bg)	-0.00001393	-1	-12	No	6	16.67	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-39 (bg)	0.0002102	3	12	No	6	16.67	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-40 (bg)	0.005352	6	12	No	6	50	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-41 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-42 (bg)	0.004407	6	12	No	6	33.33	n/a	n/a	0.05	NP

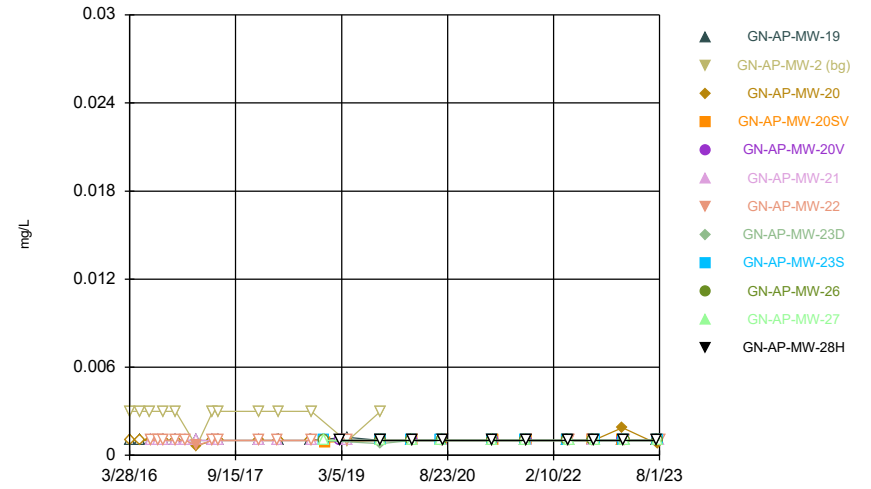
FIGURE A.

Time Series



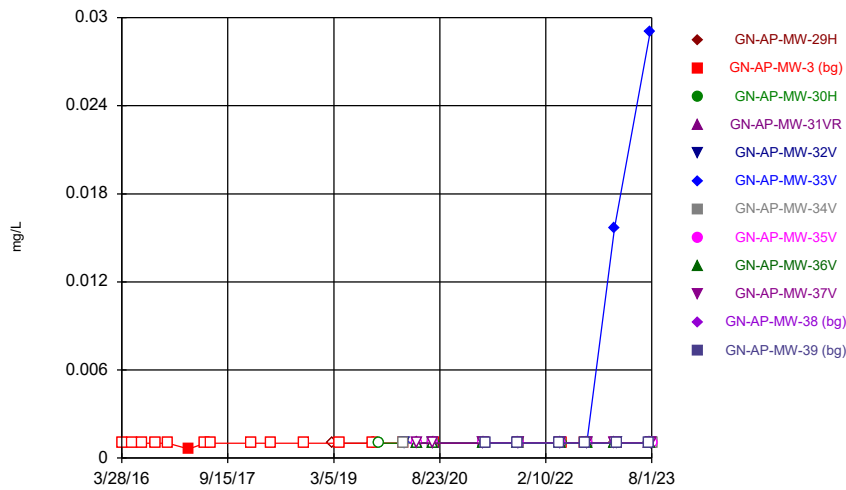
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Time Series



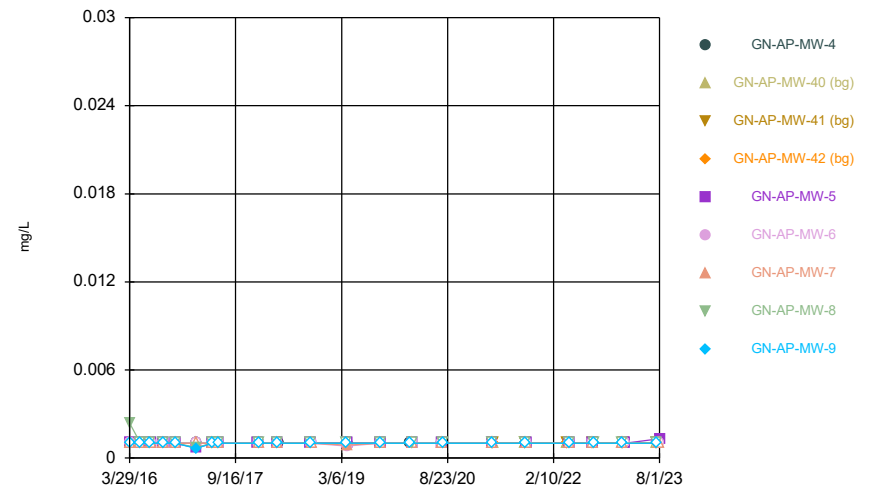
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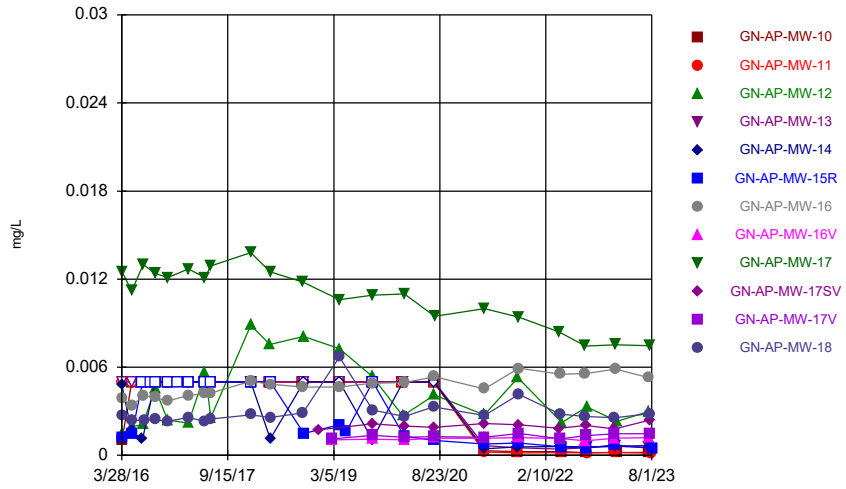
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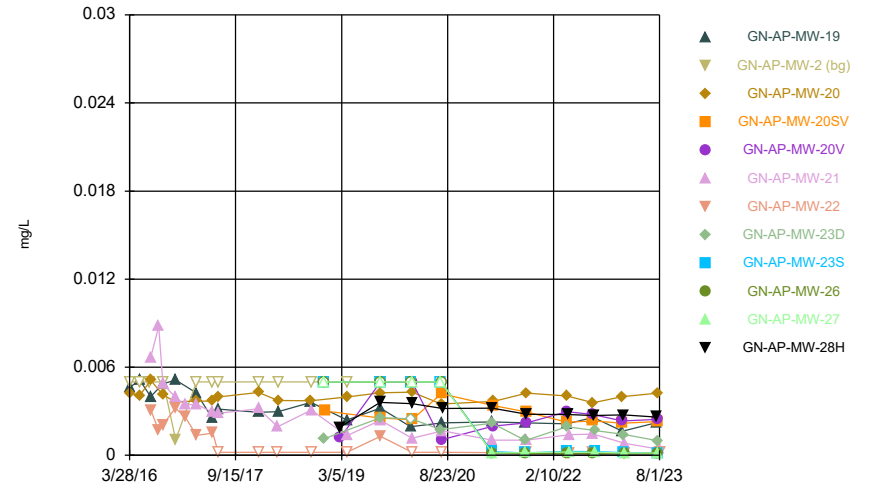
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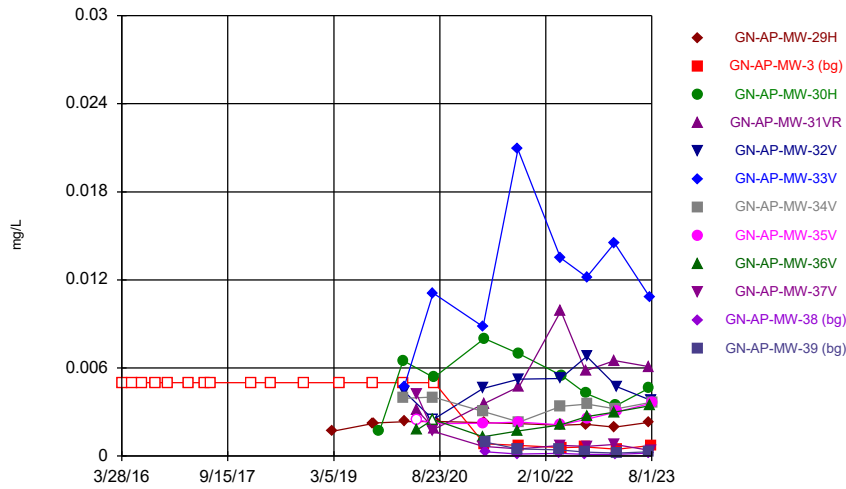
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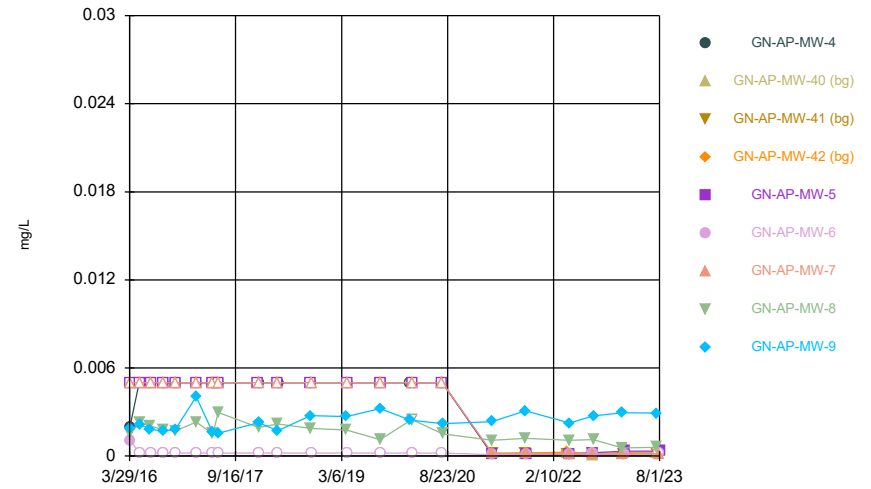
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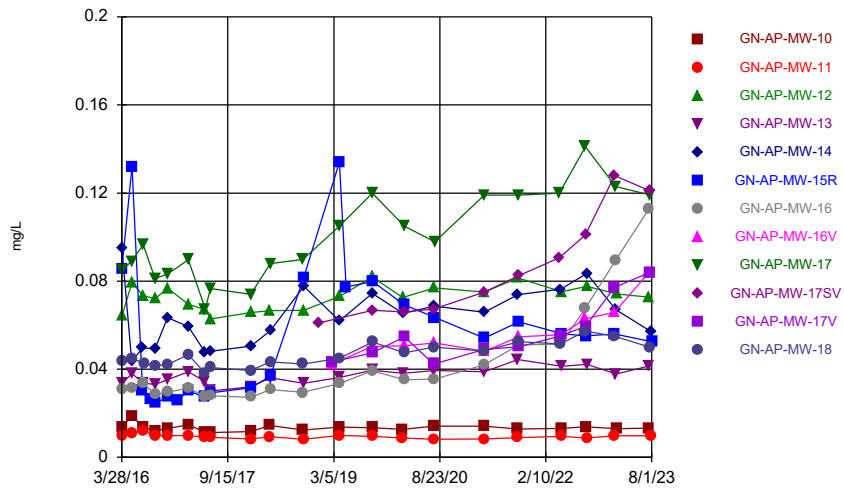
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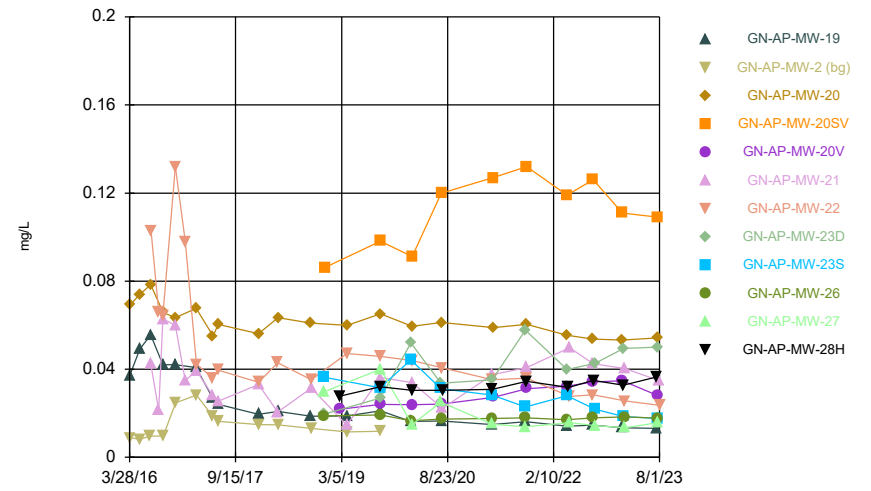
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Time Series



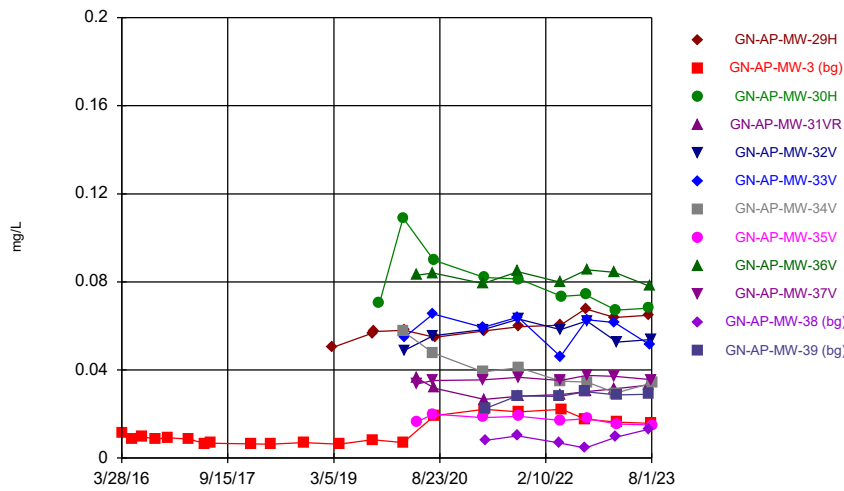
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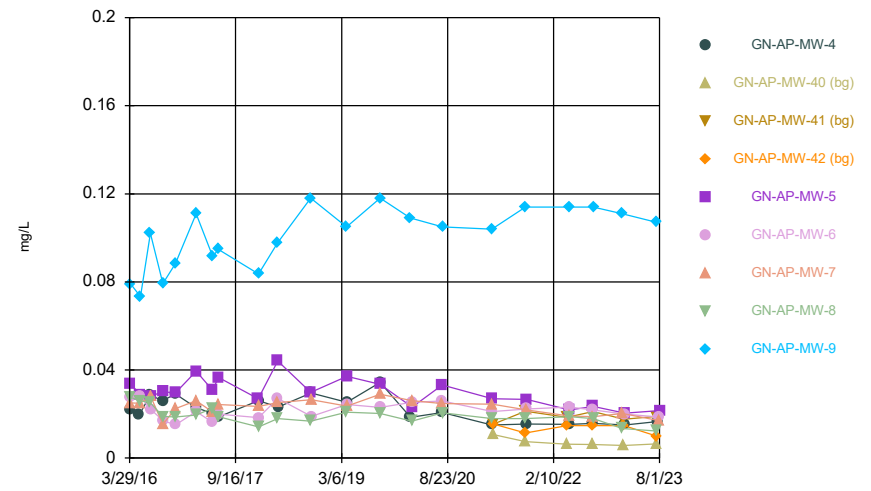
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Time Series



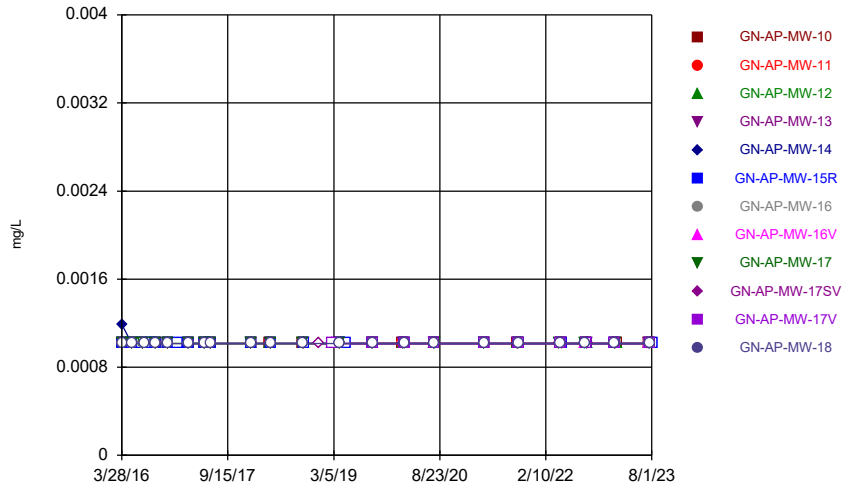
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Time Series



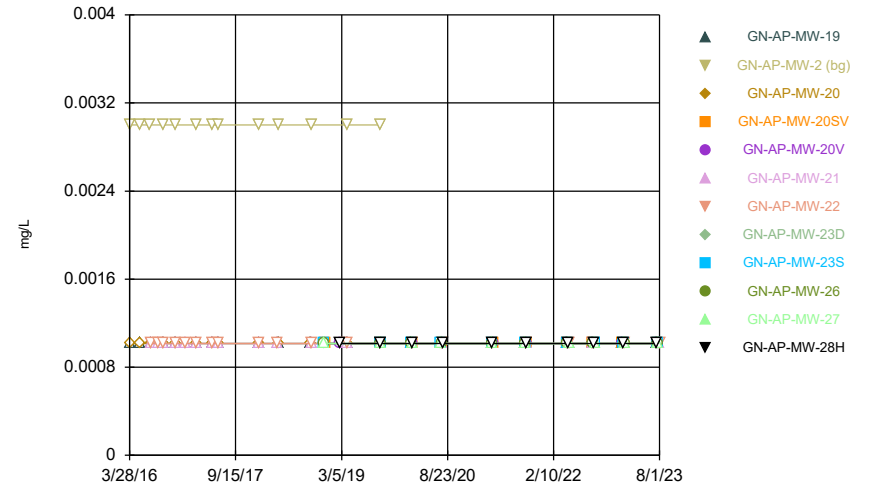
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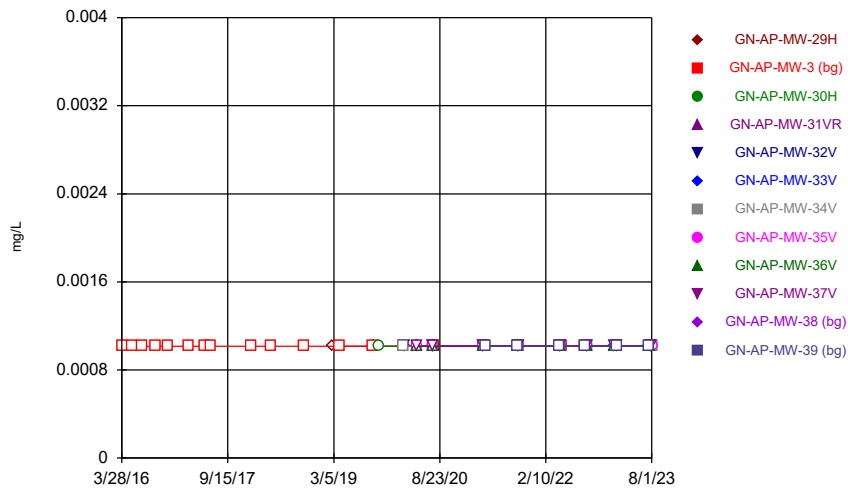
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Time Series



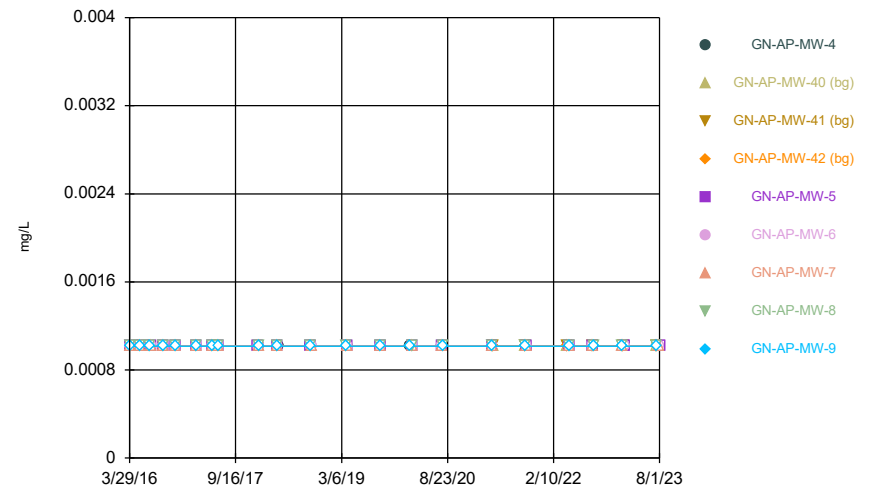
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Time Series



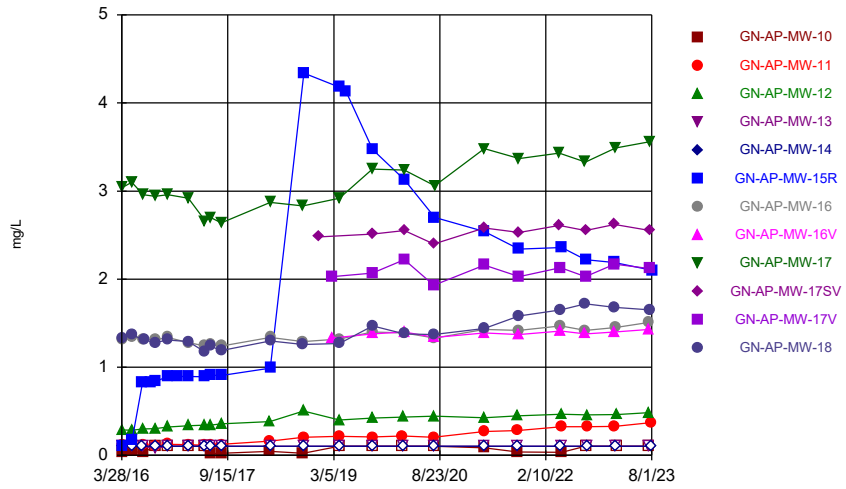
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Time Series



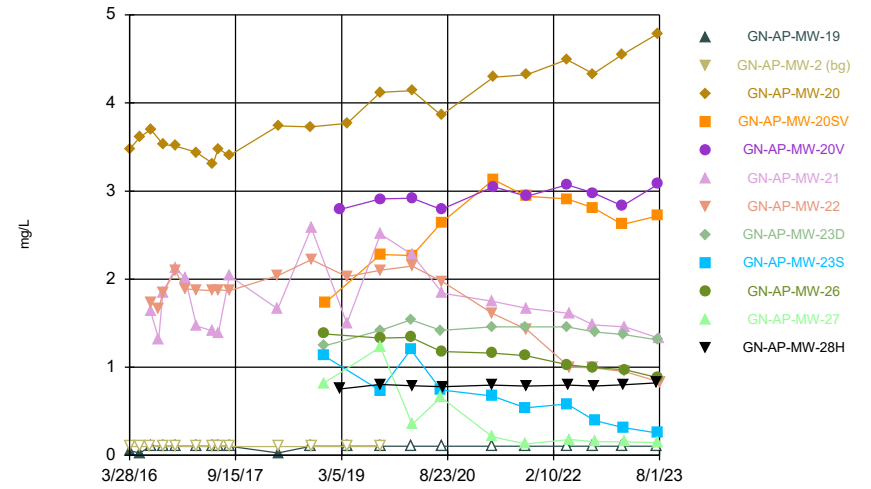
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Time Series



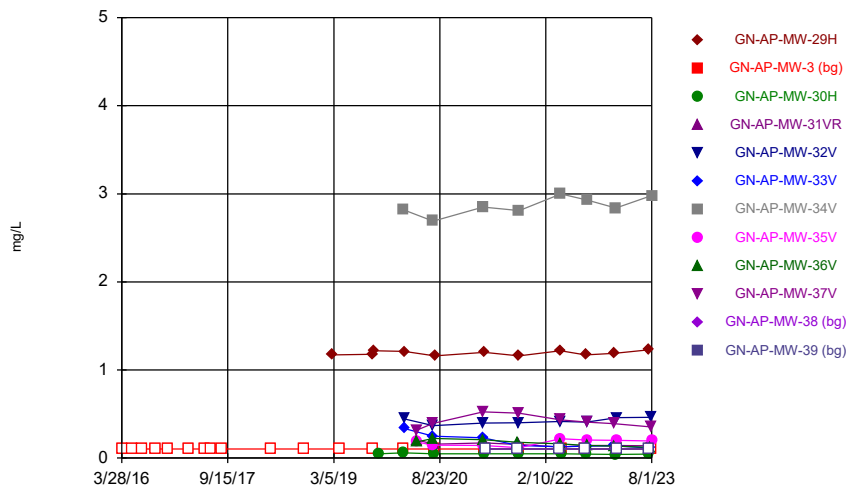
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



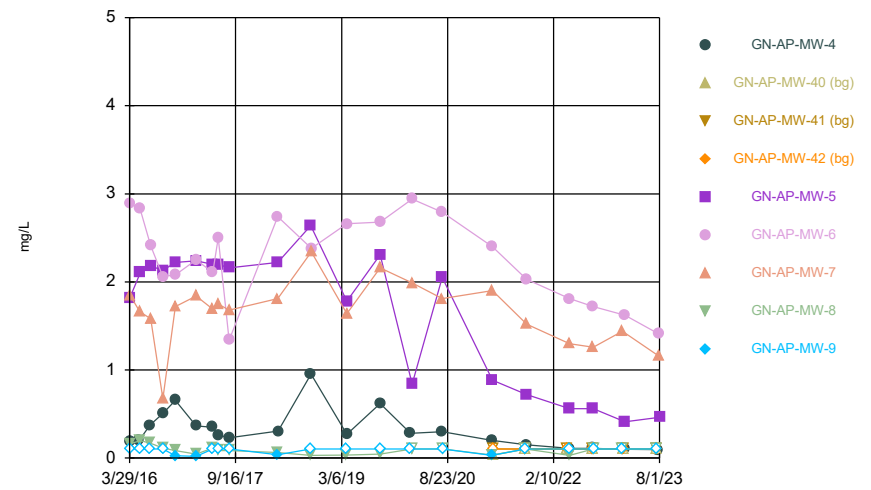
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Time Series



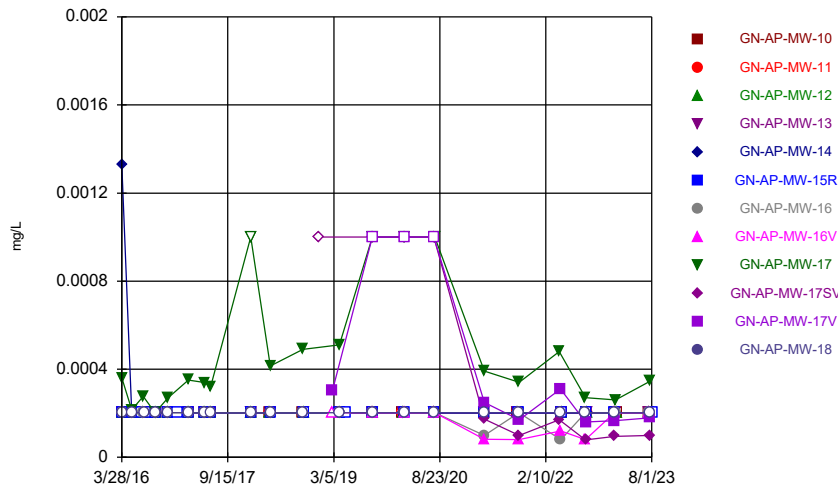
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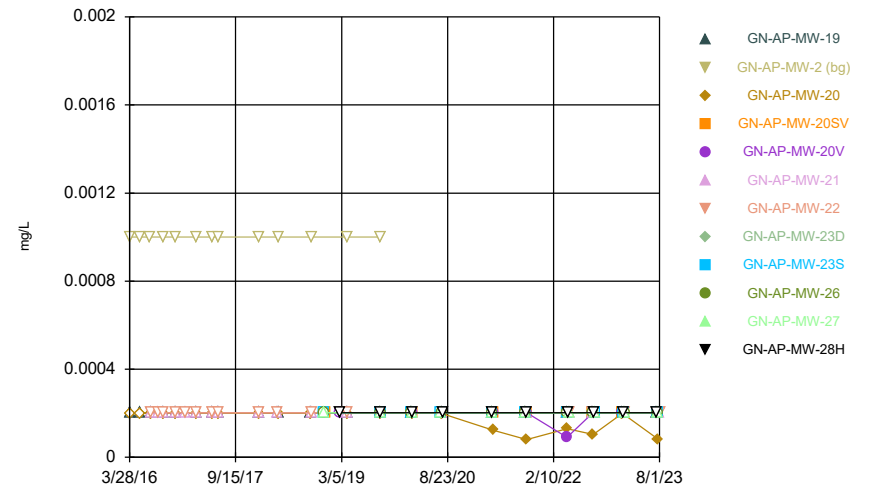
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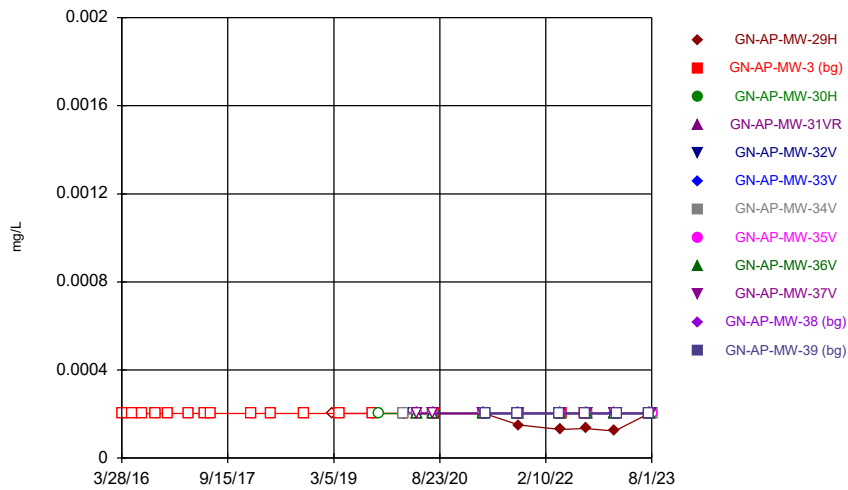
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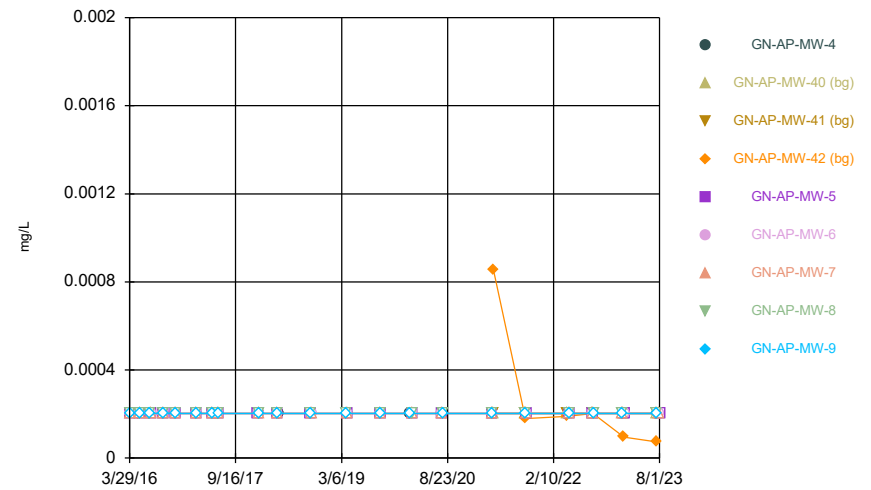
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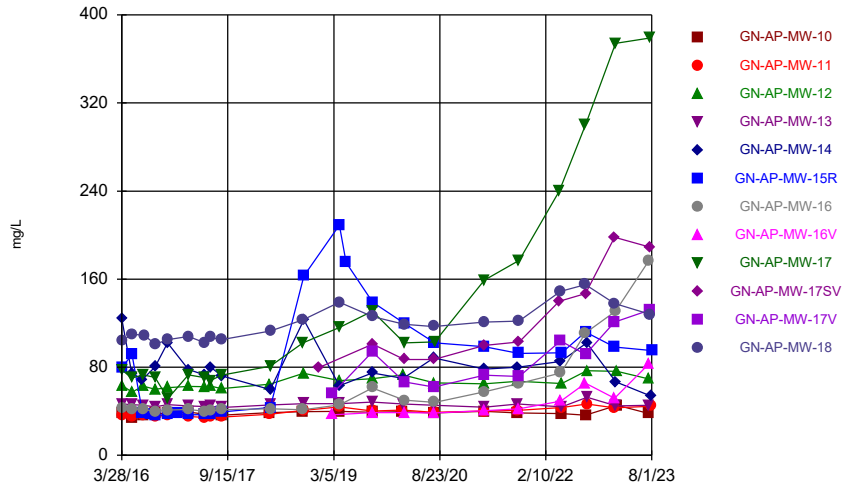
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Time Series



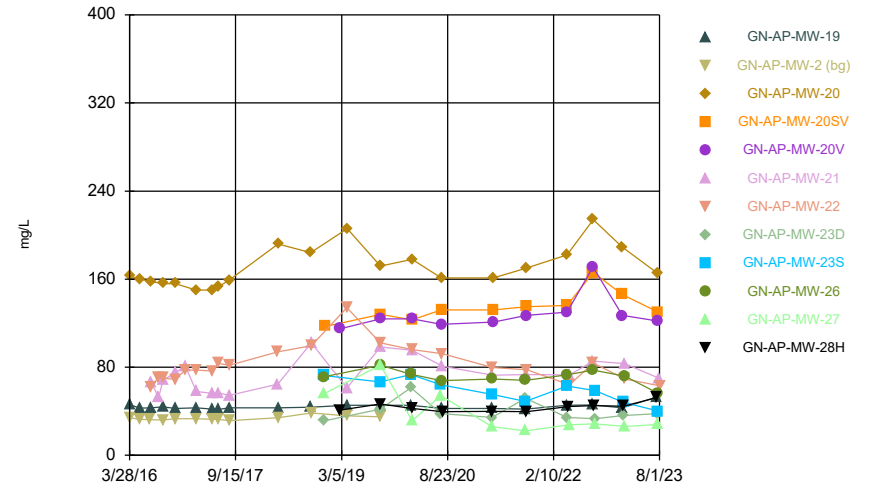
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Time Series



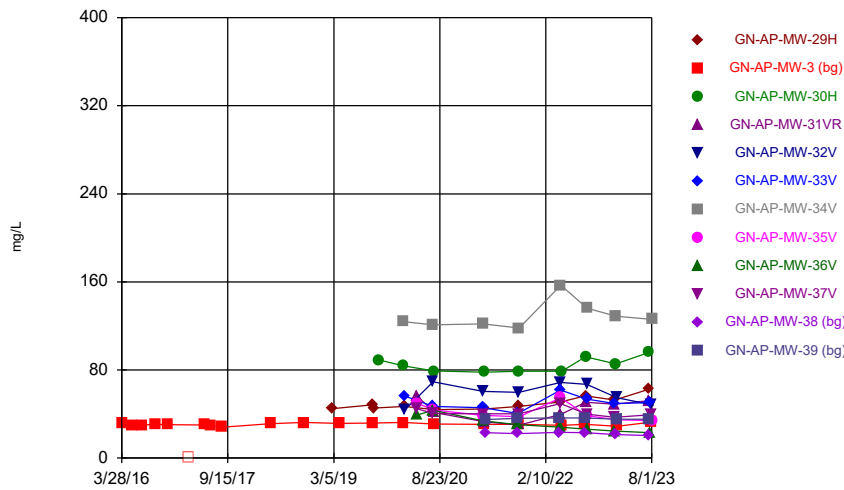
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



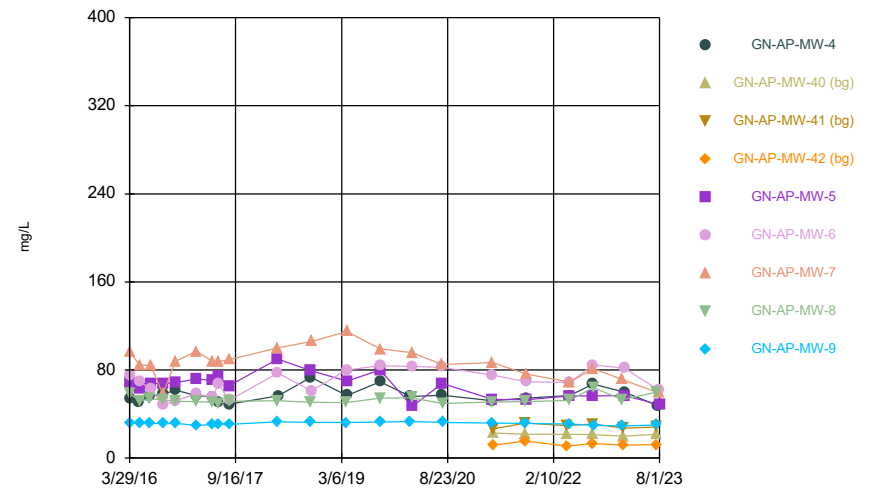
Constituent: Calcium Analysis Run 10/4/2023 3:51 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



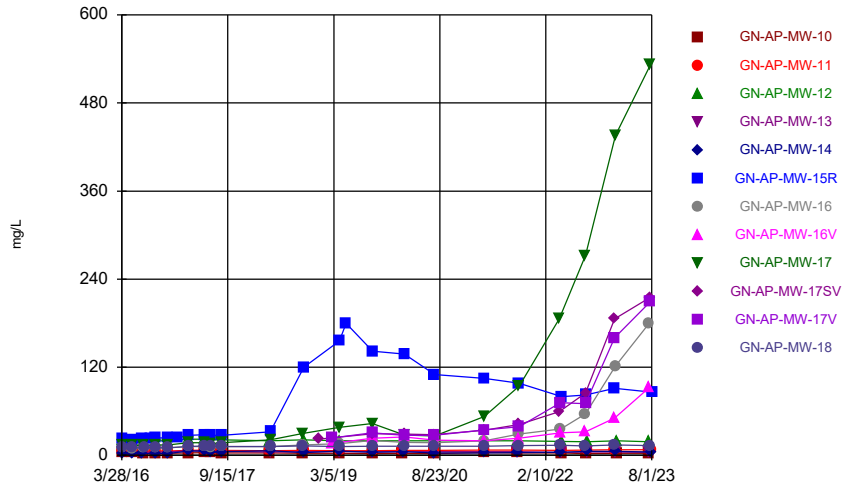
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



Constituent: Calcium Analysis Run 10/4/2023 3:51 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

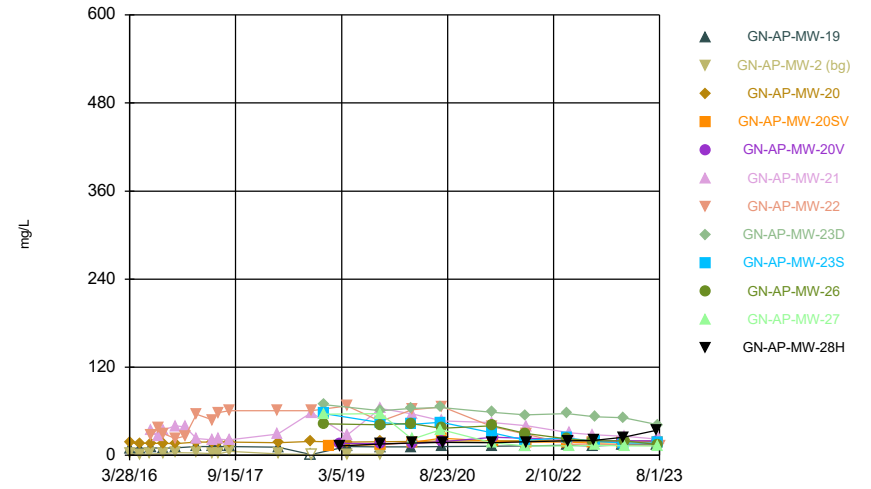
Time Series



Constituent: Chloride Analysis Run 10/4/2023 3:51 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

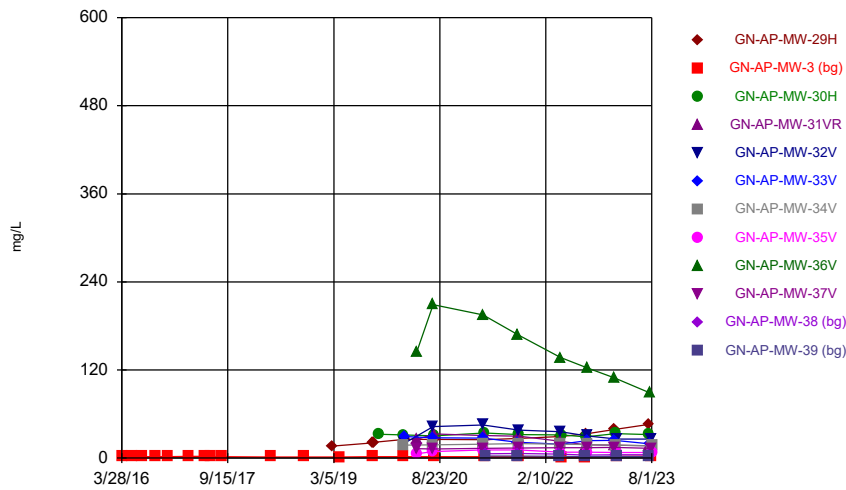
Hollow symbols indicate censored values.

Time Series



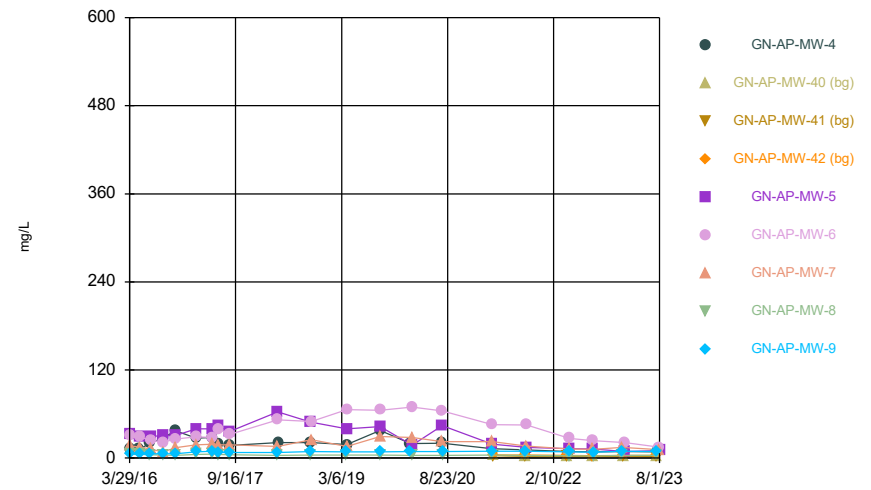
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



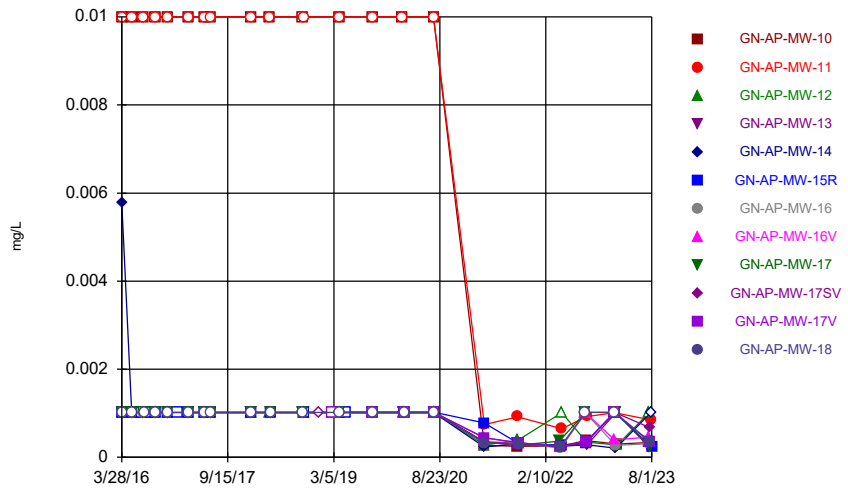
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



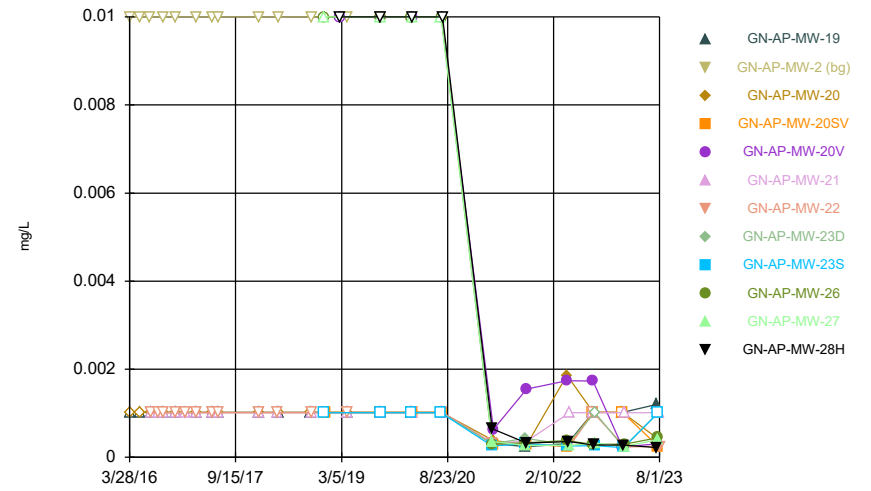
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



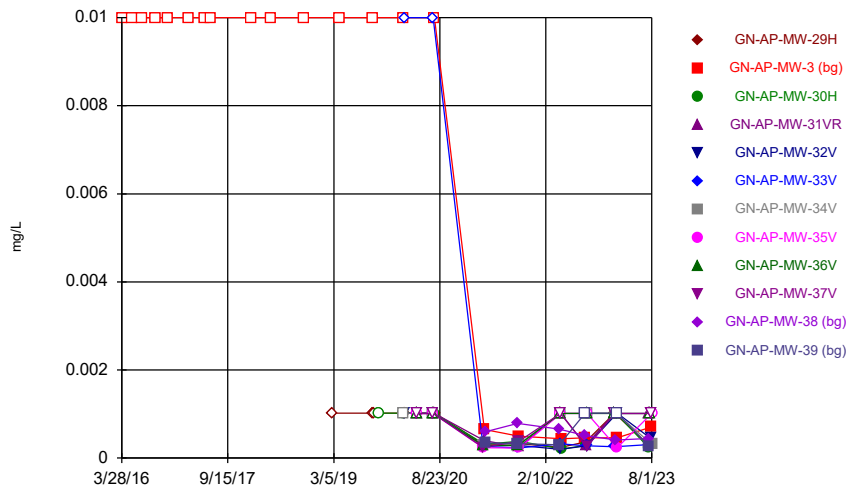
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Time Series



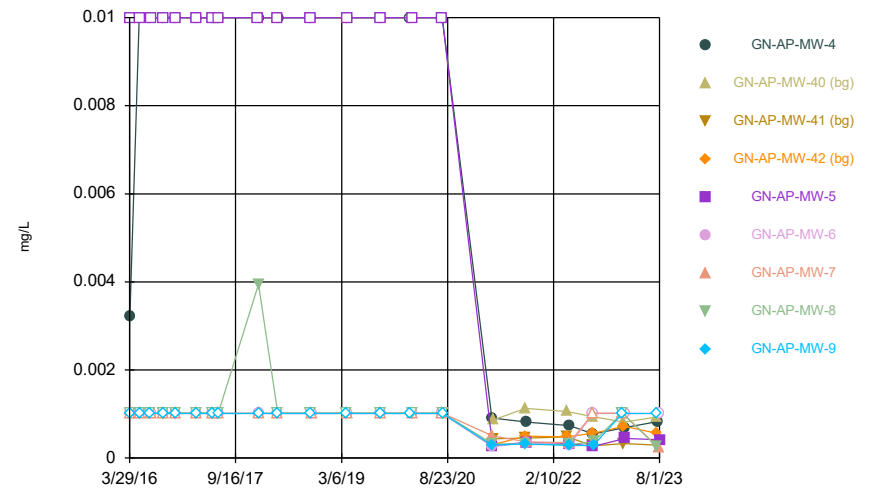
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Time Series



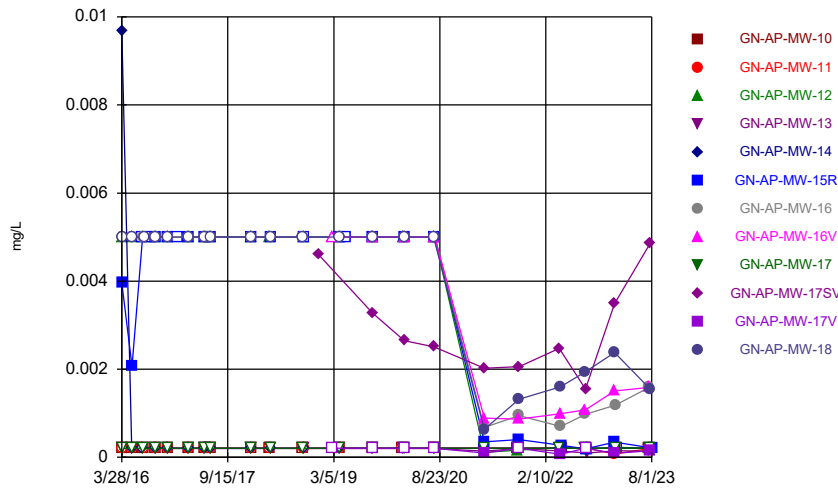
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



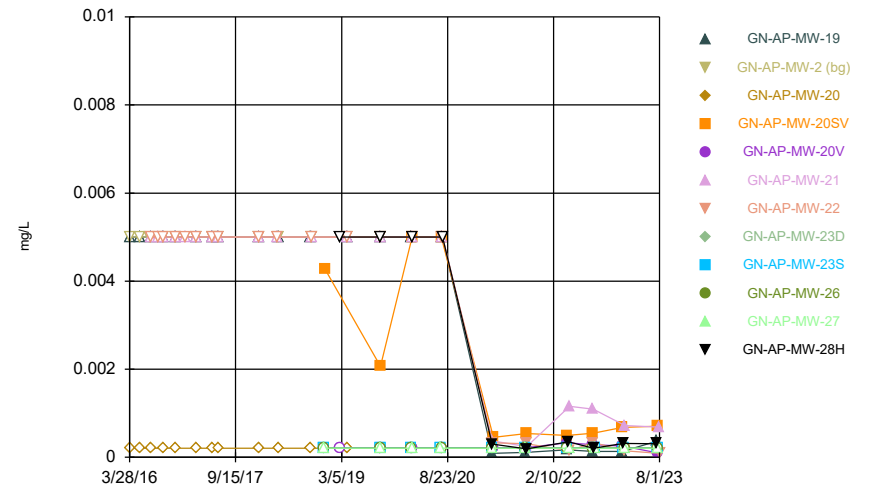
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



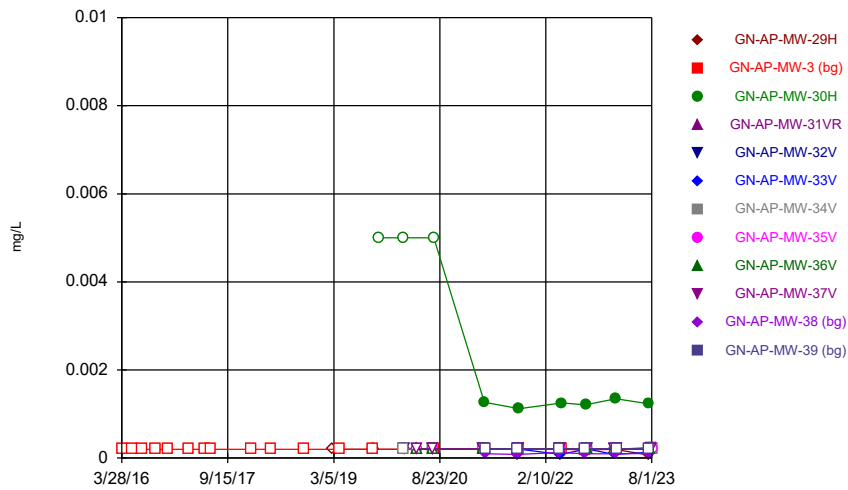
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



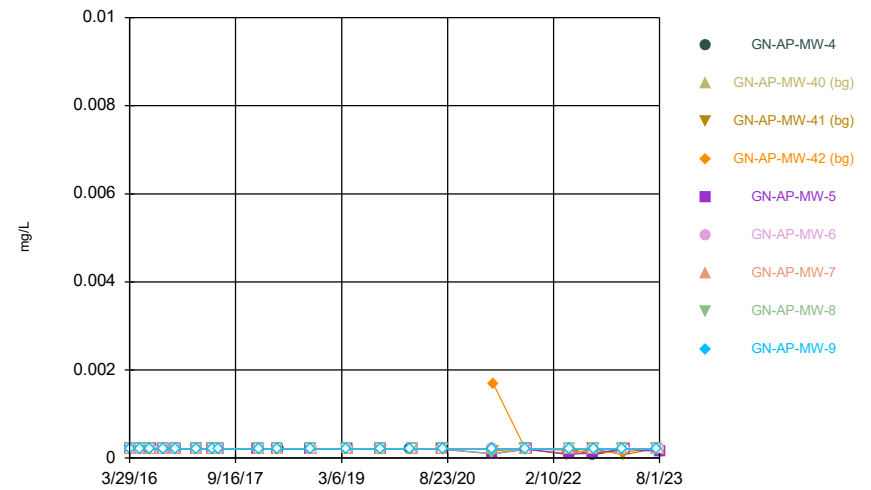
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



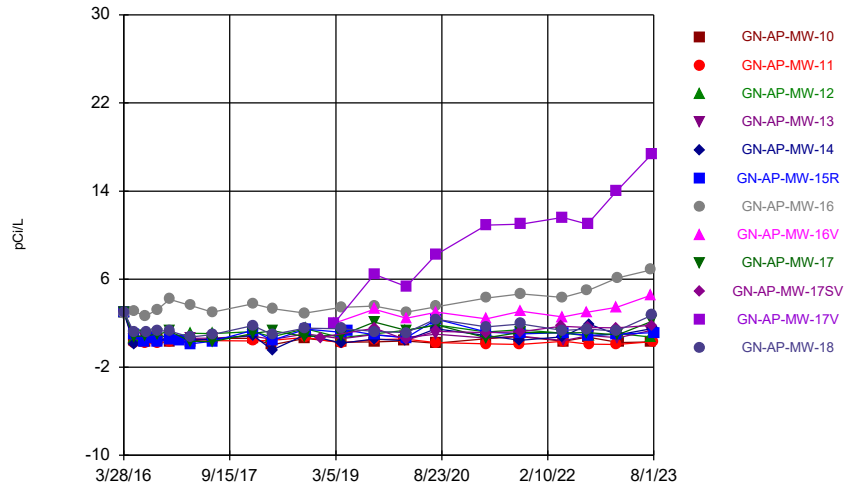
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



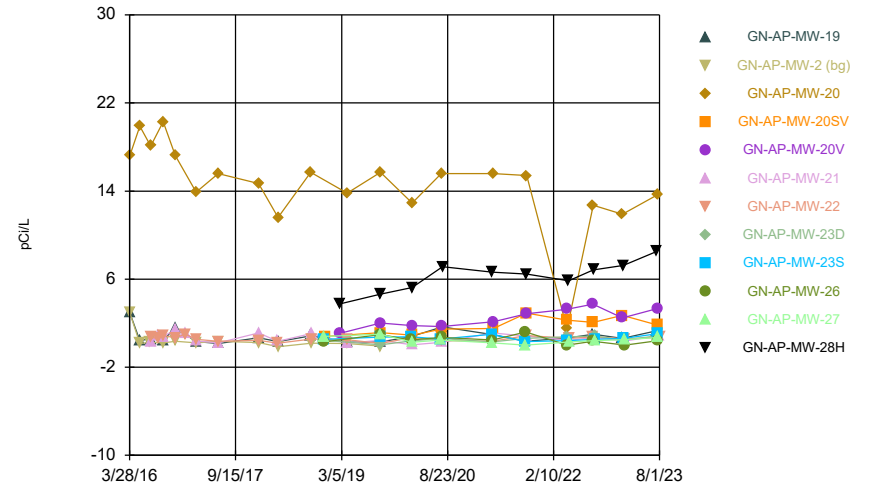
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



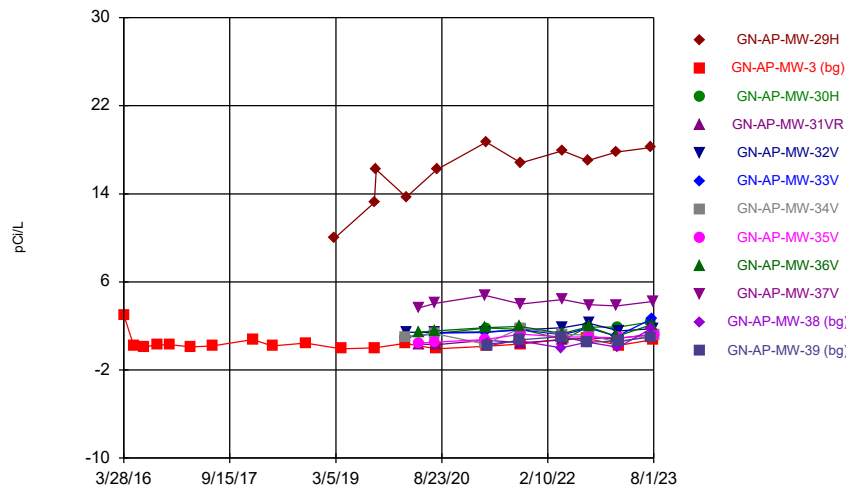
Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2023 3:52 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



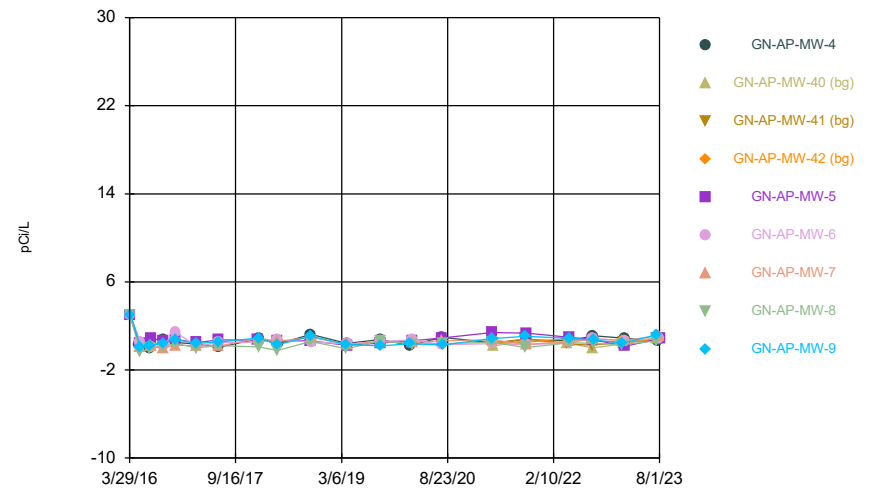
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



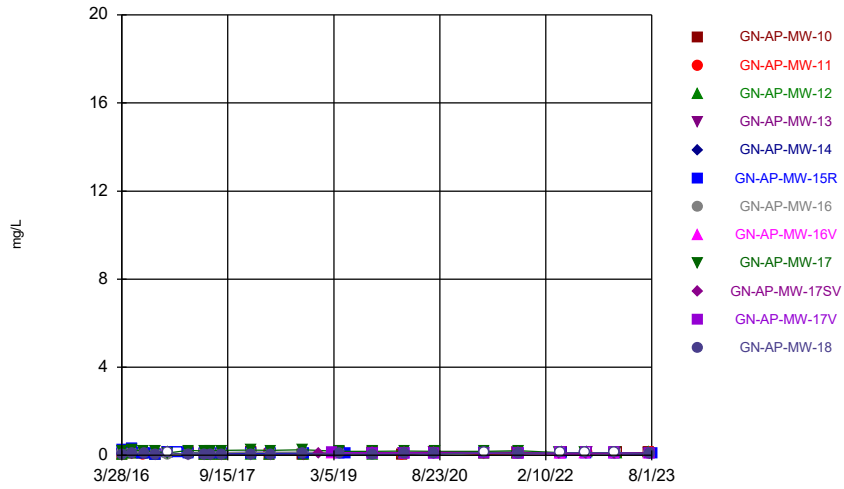
Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2023 3:52 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



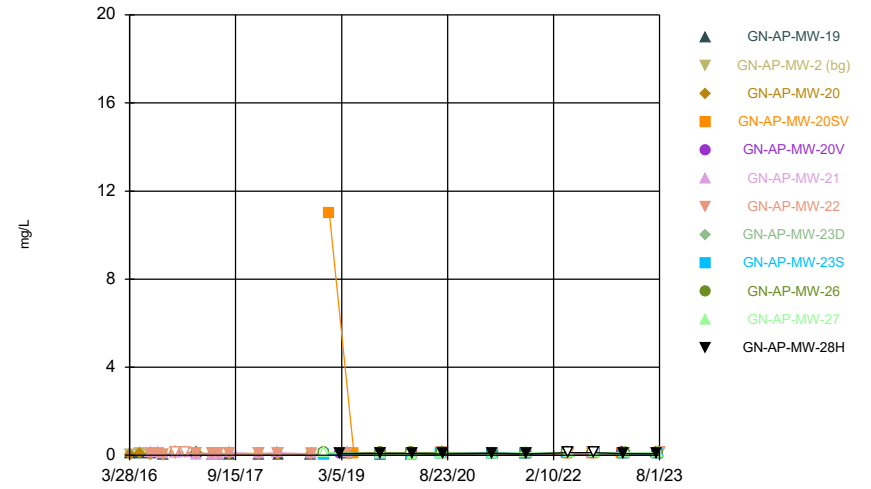
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



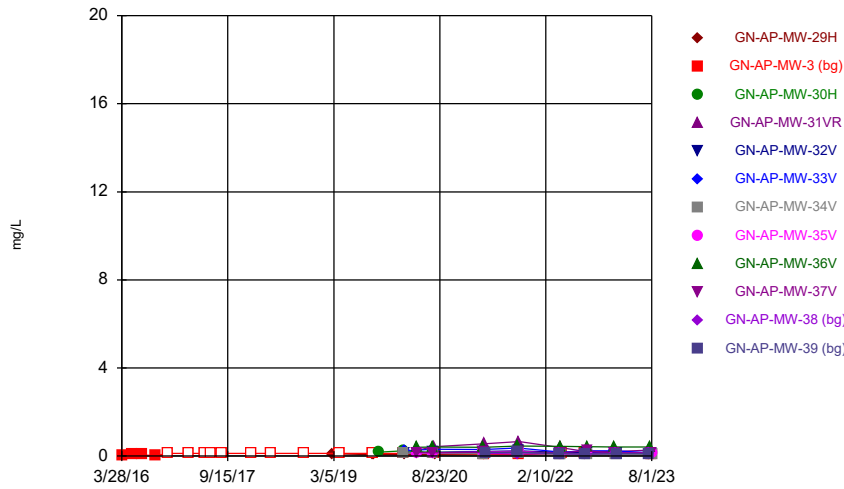
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



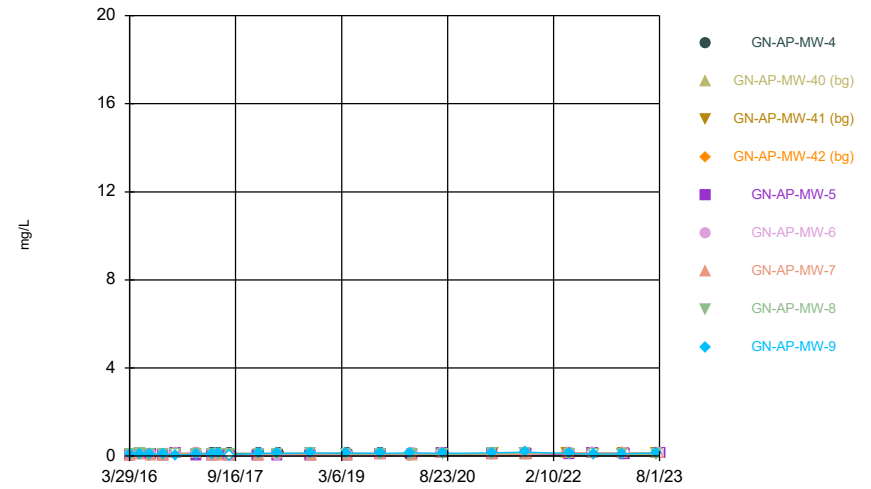
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



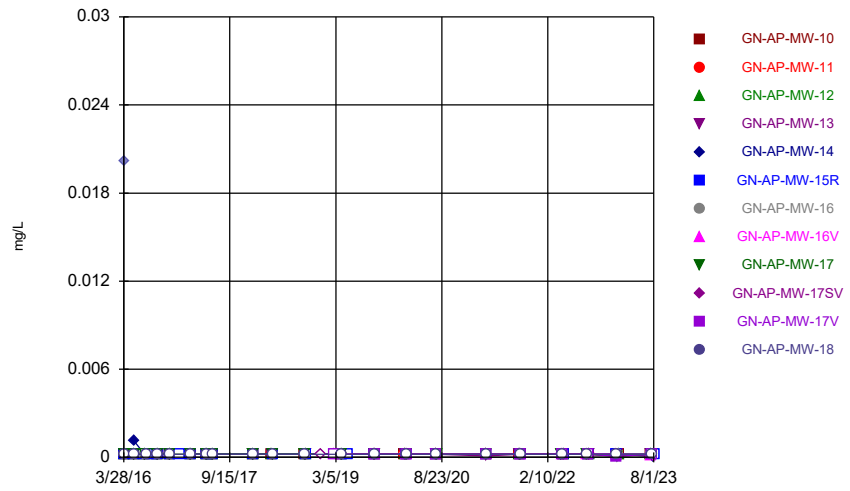
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



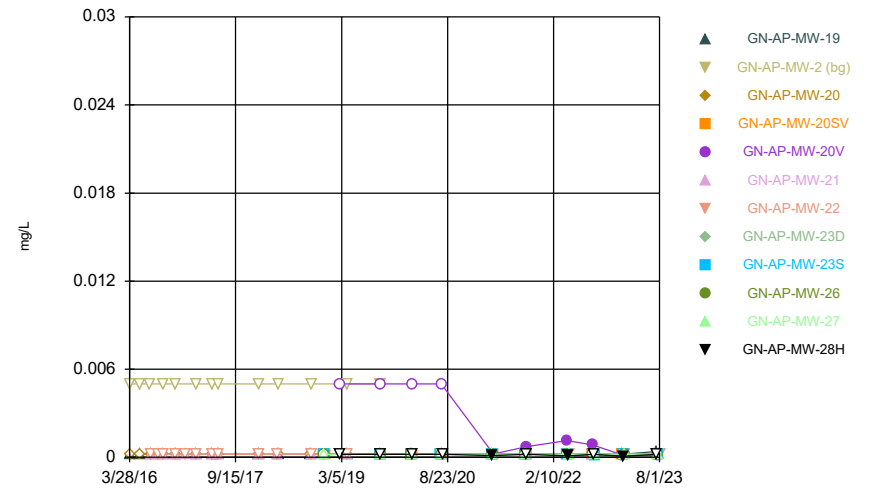
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



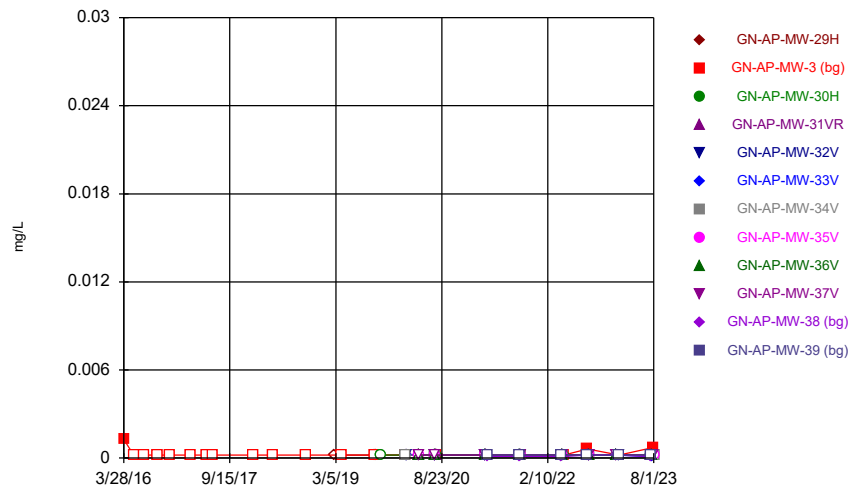
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Time Series



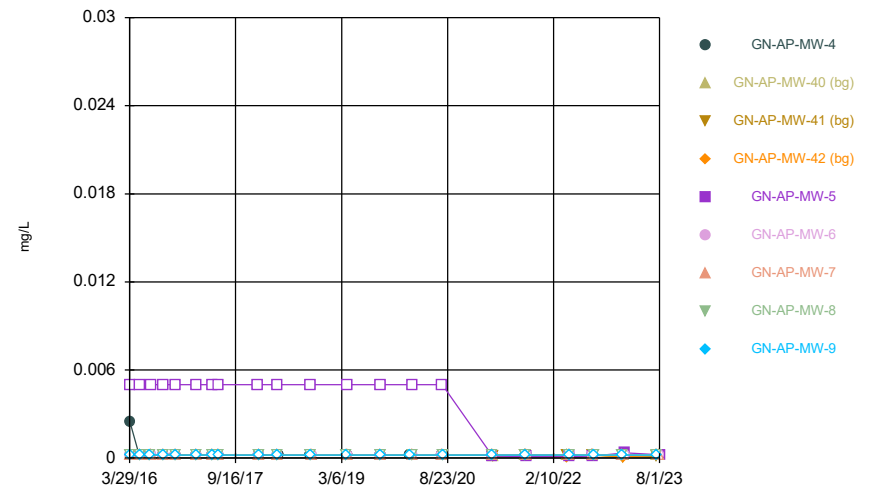
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



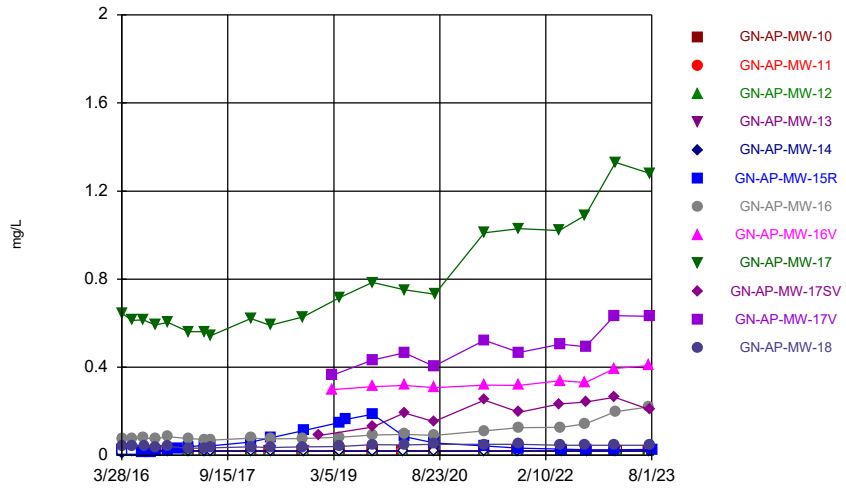
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Time Series



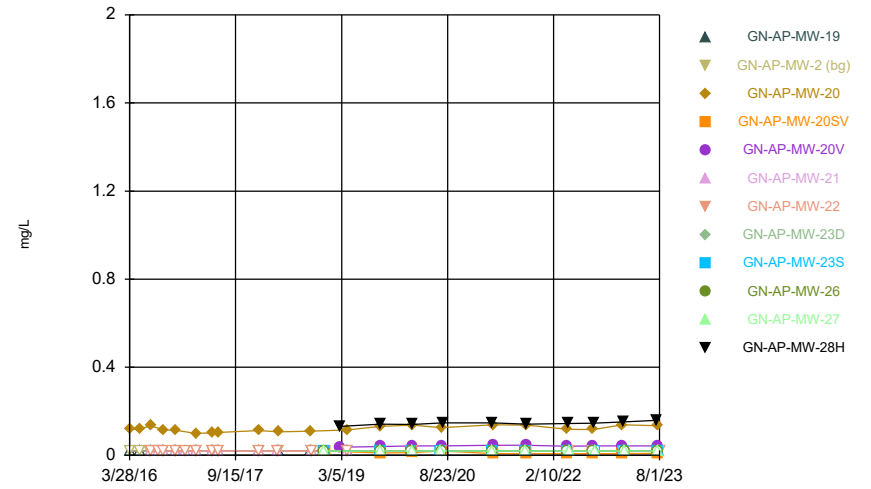
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Time Series



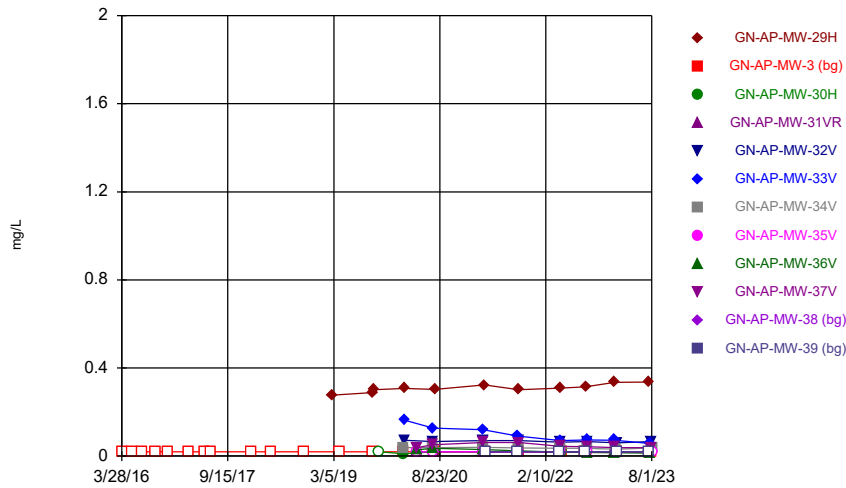
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



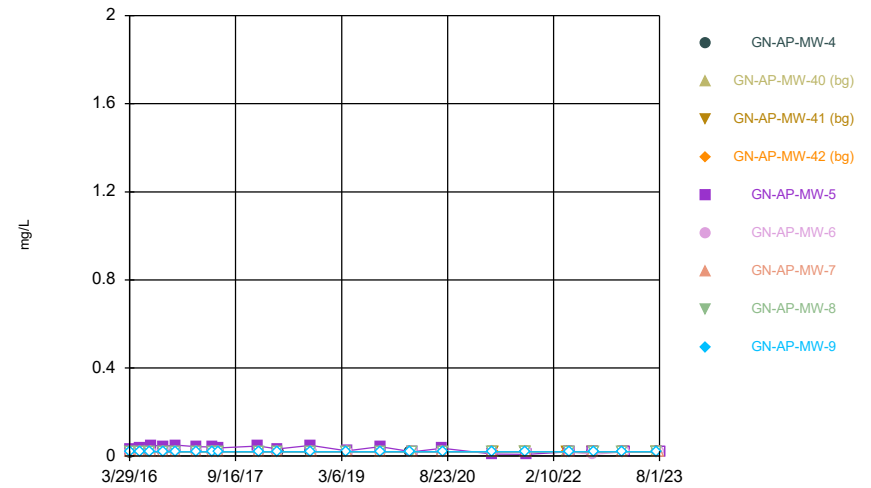
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Time Series



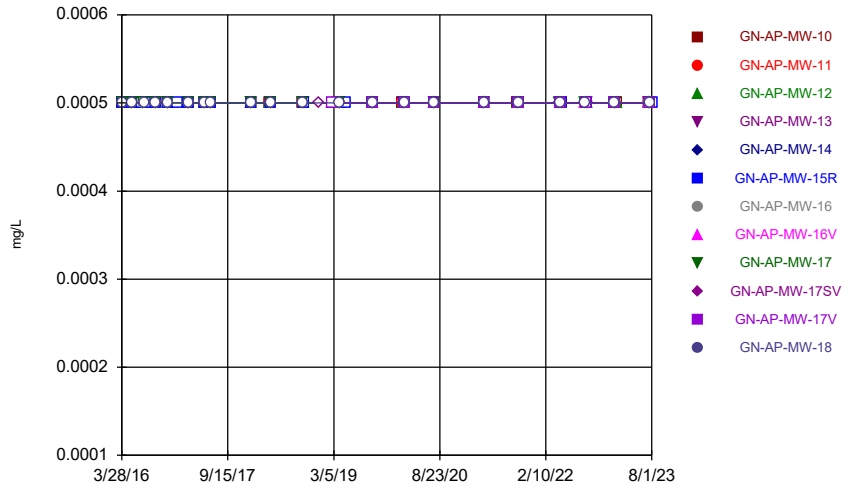
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



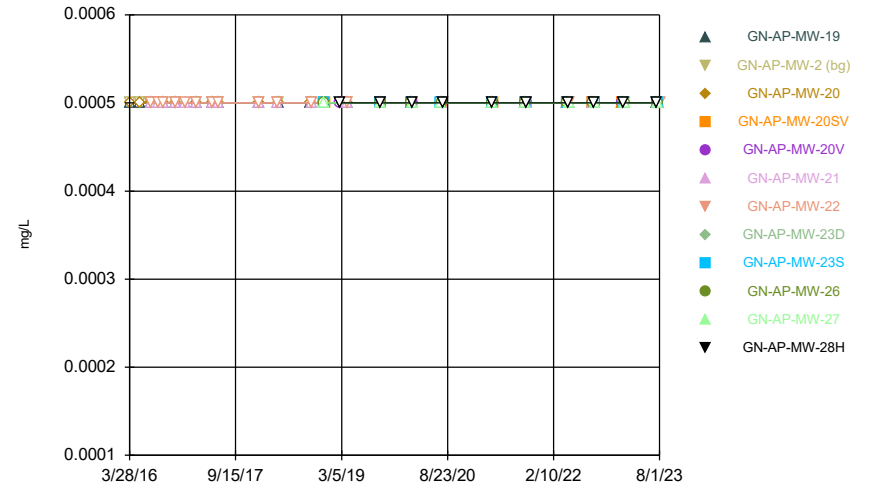
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



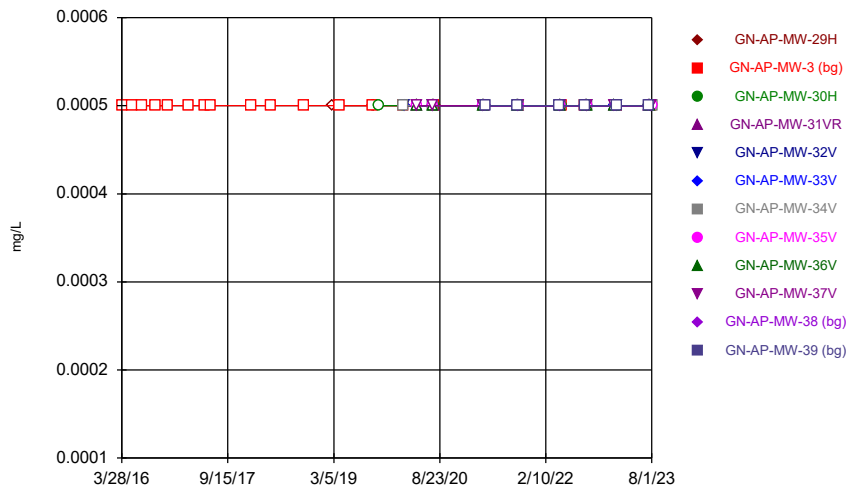
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



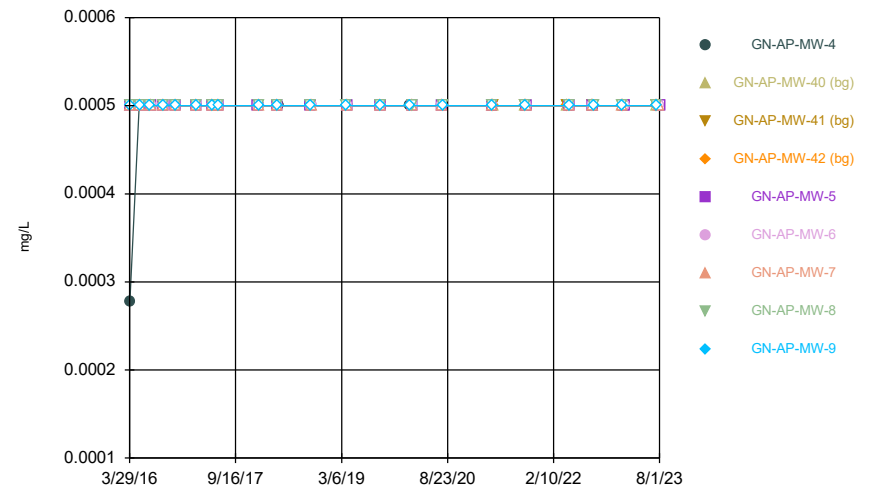
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



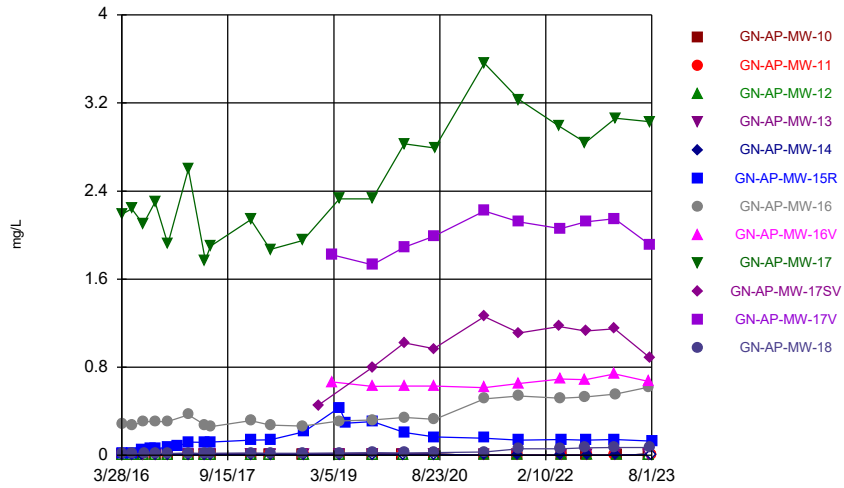
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



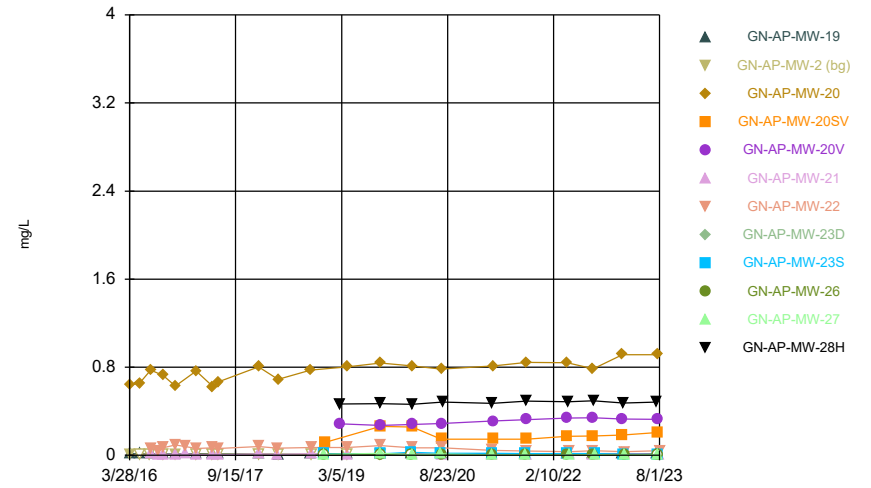
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



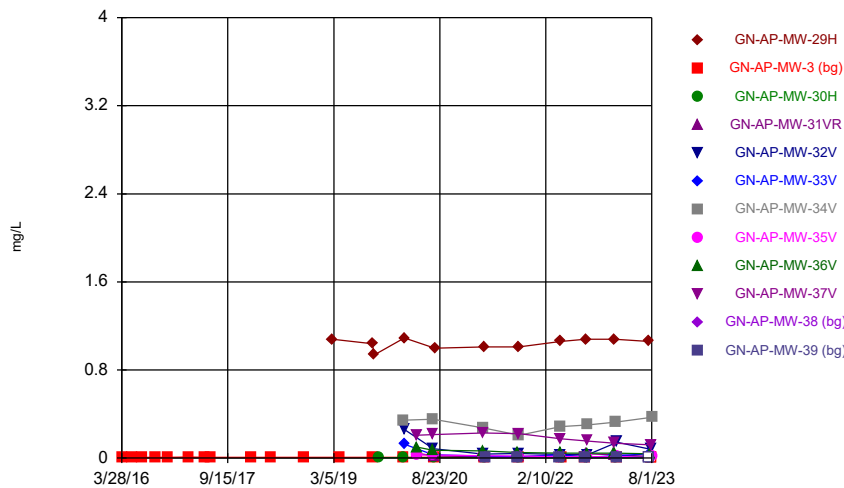
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



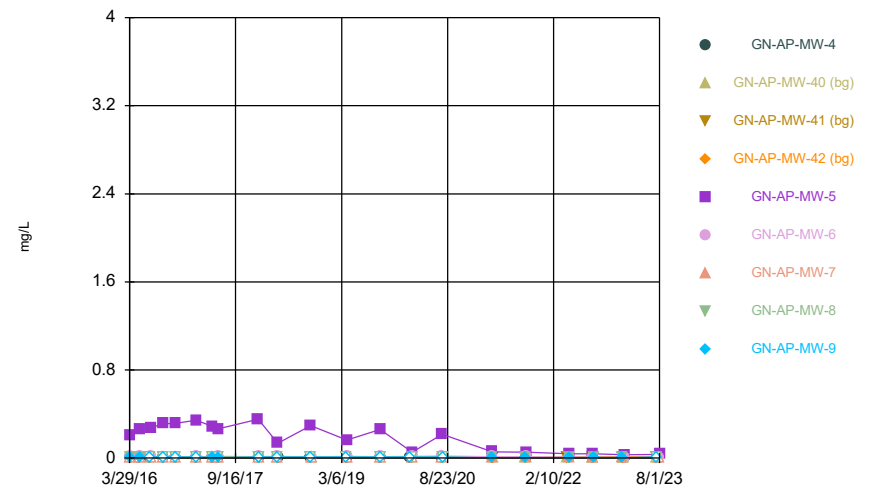
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



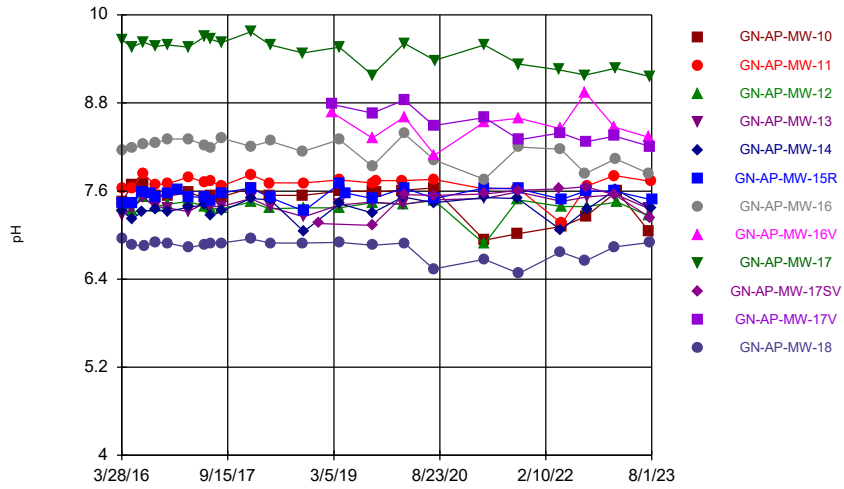
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



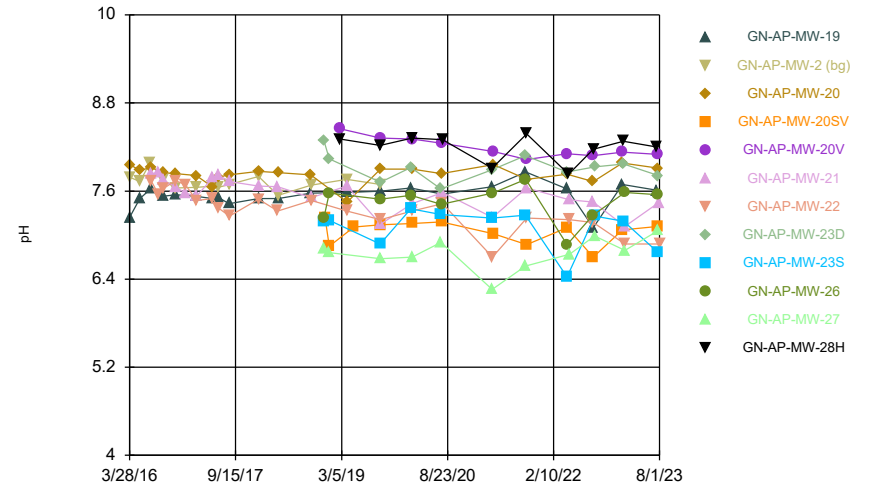
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



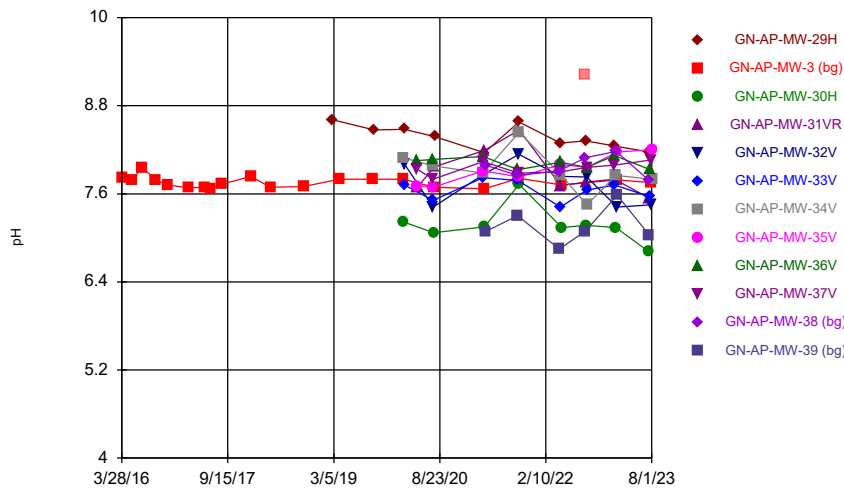
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



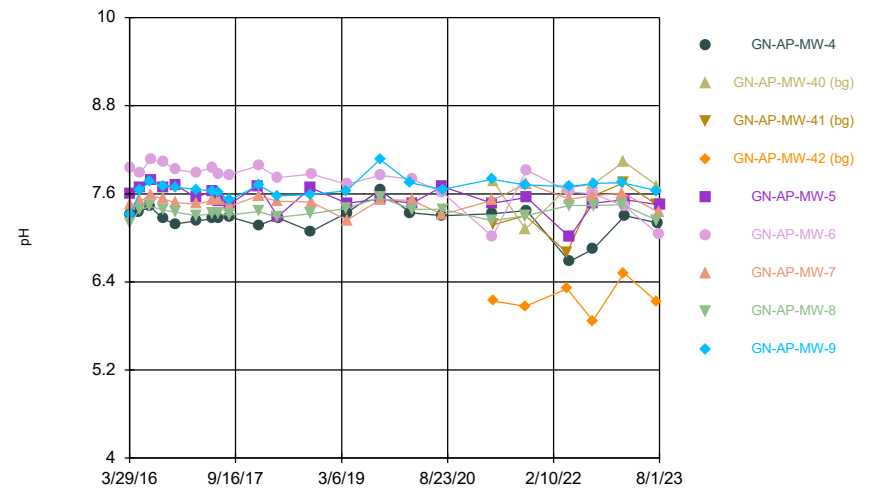
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



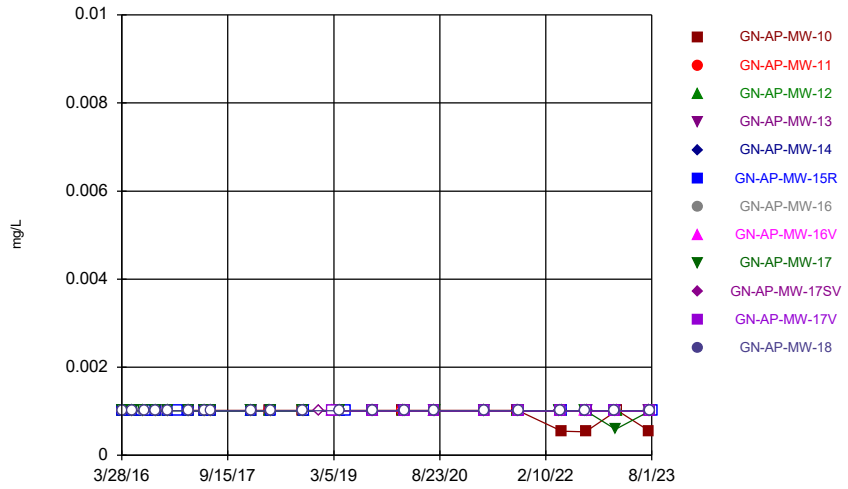
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



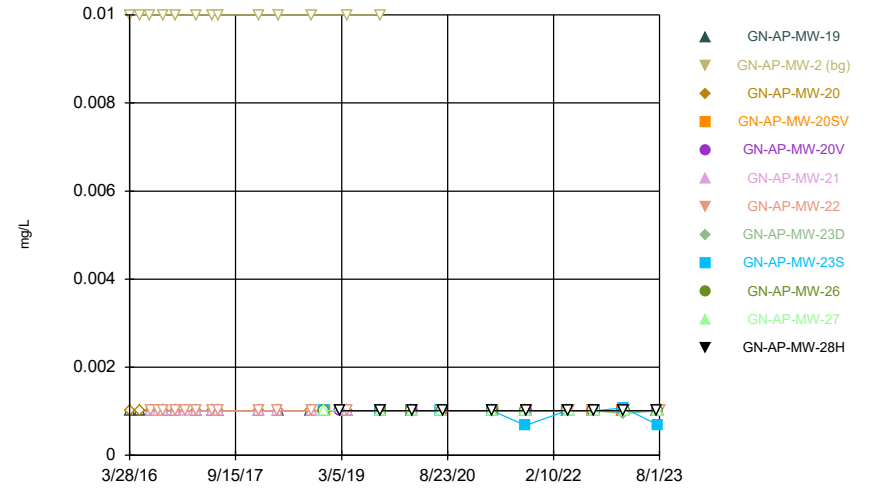
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



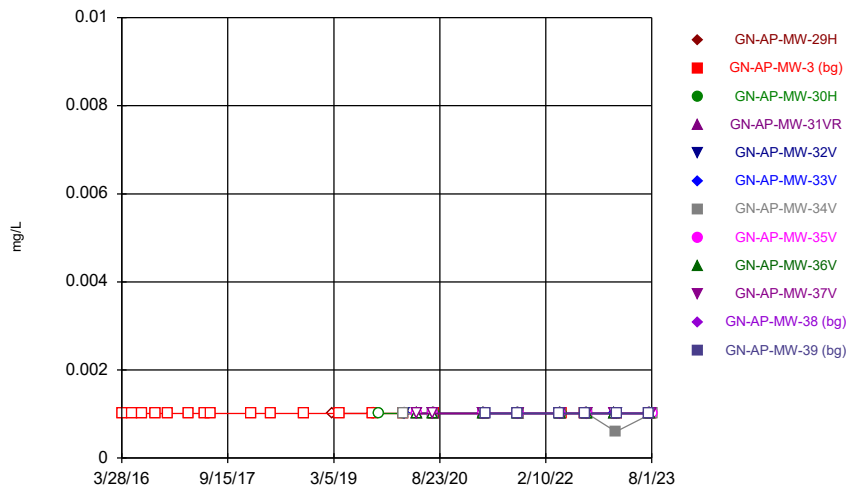
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



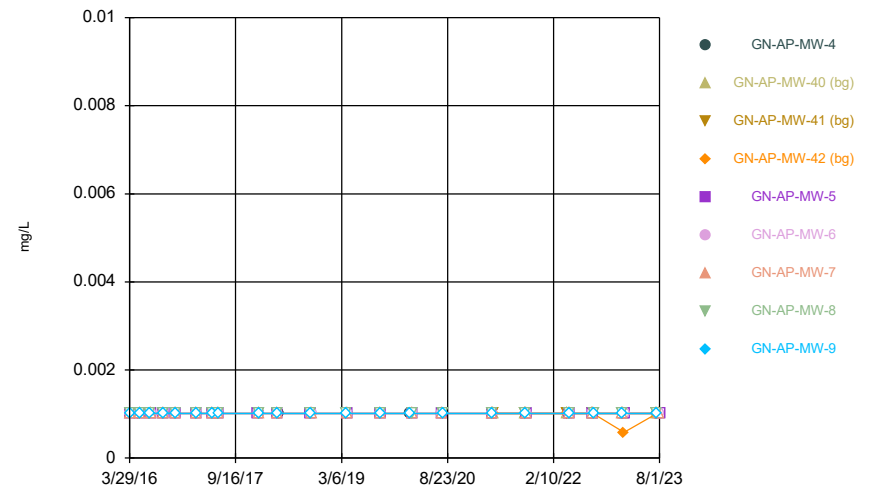
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



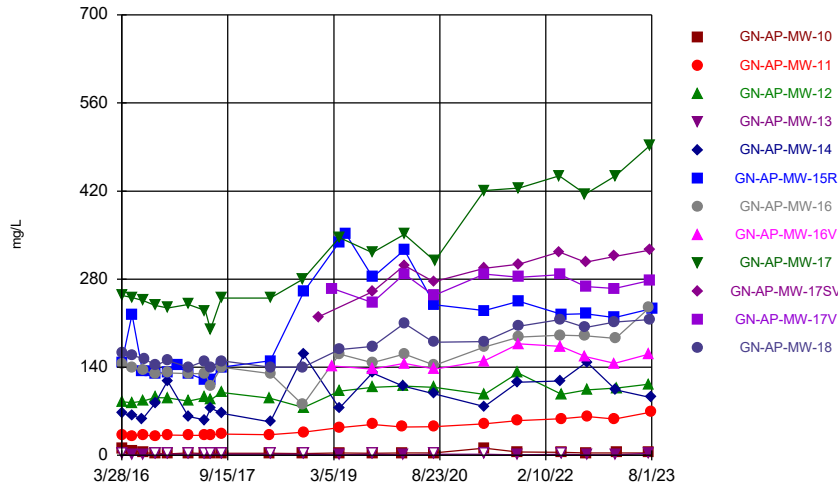
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



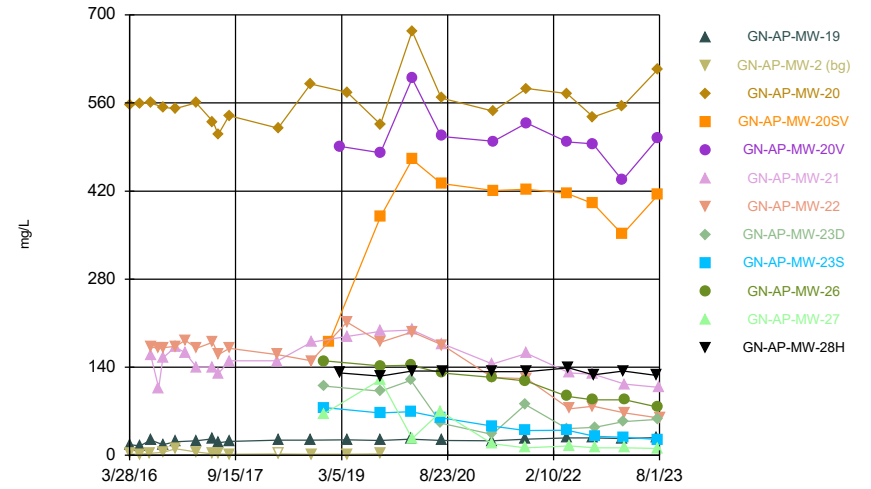
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



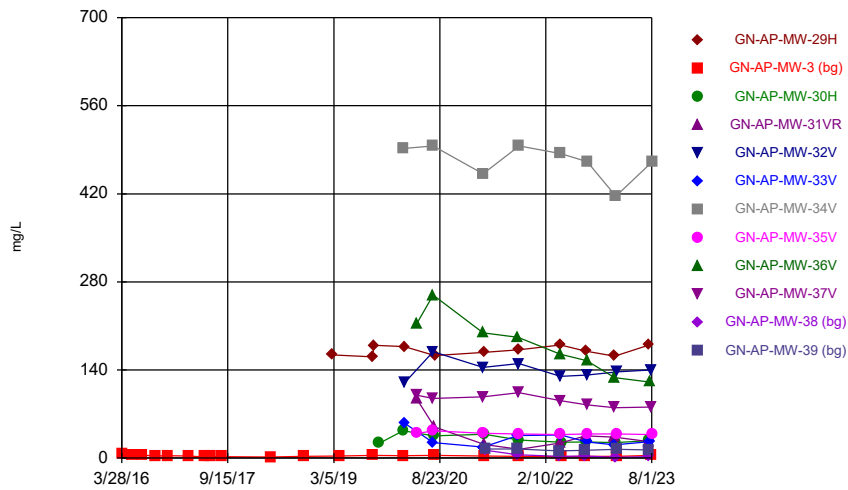
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



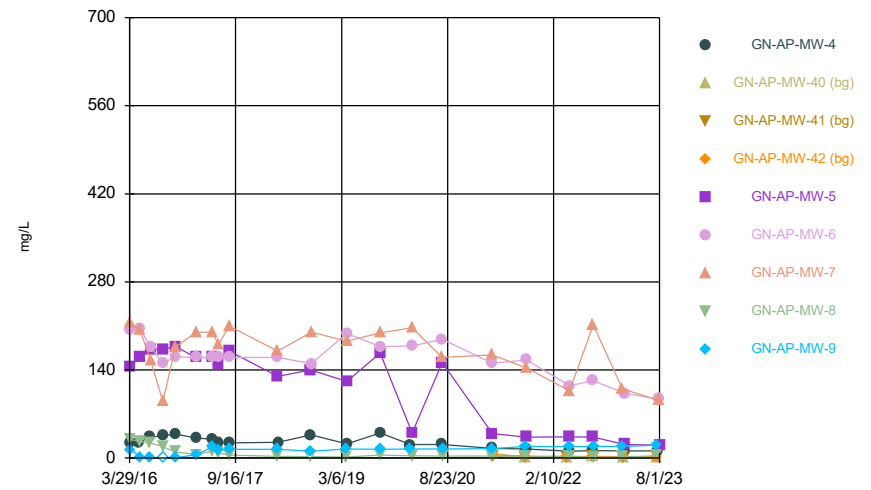
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



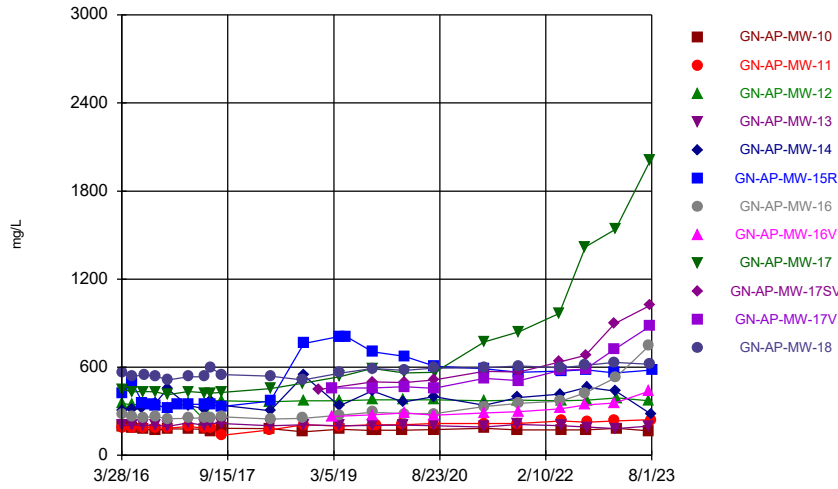
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



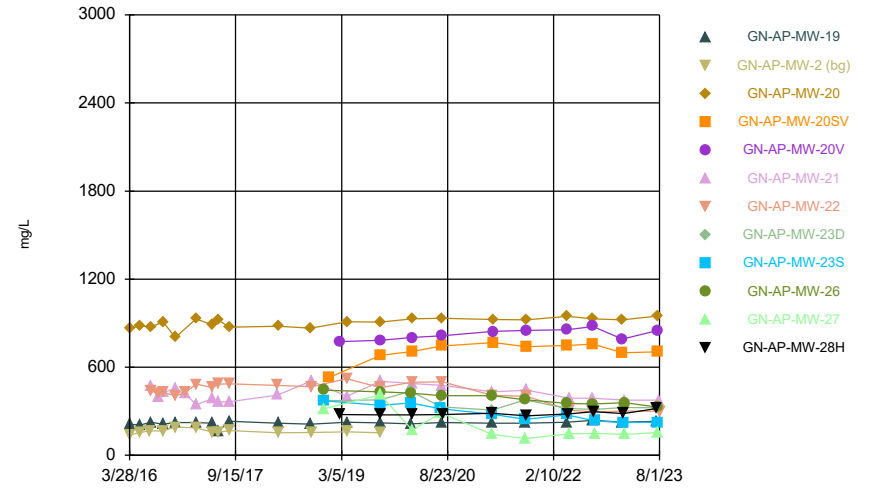
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



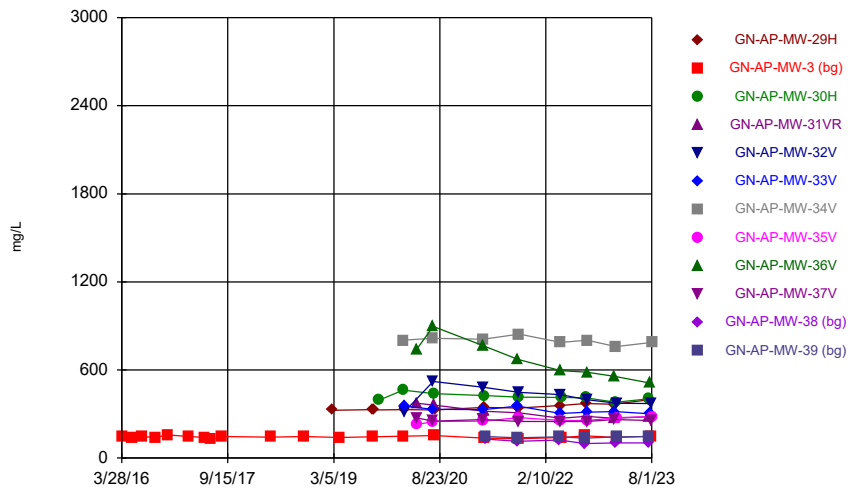
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



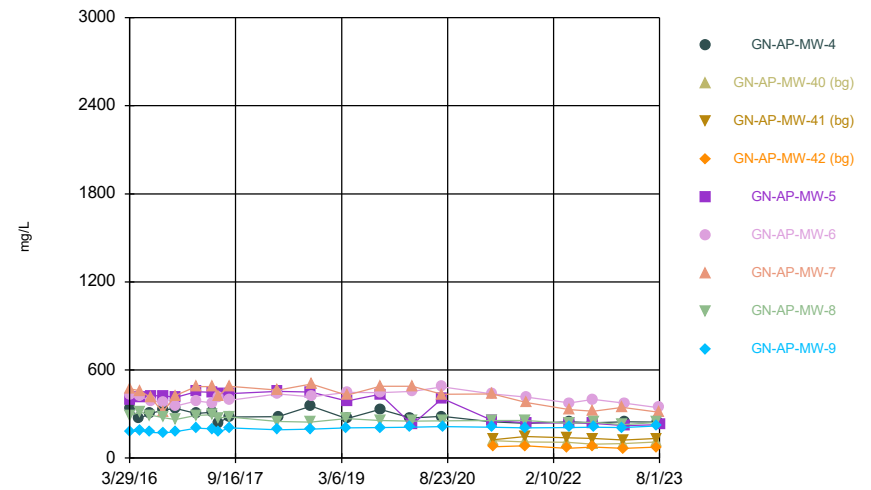
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



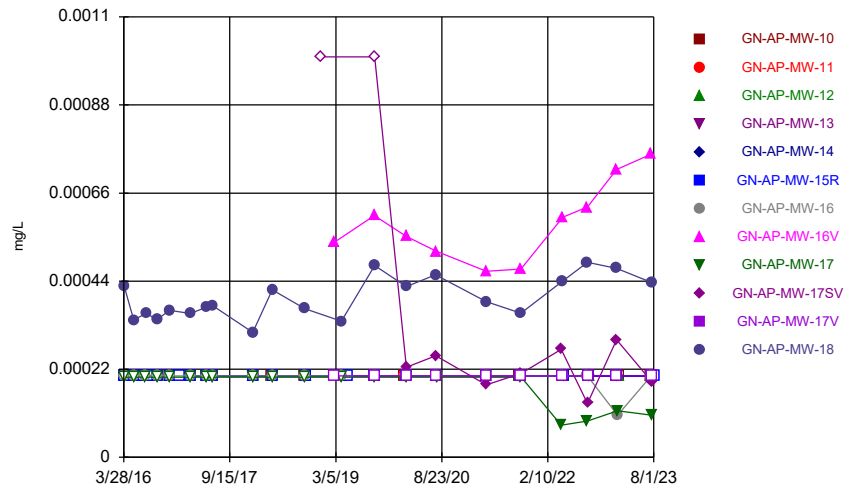
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



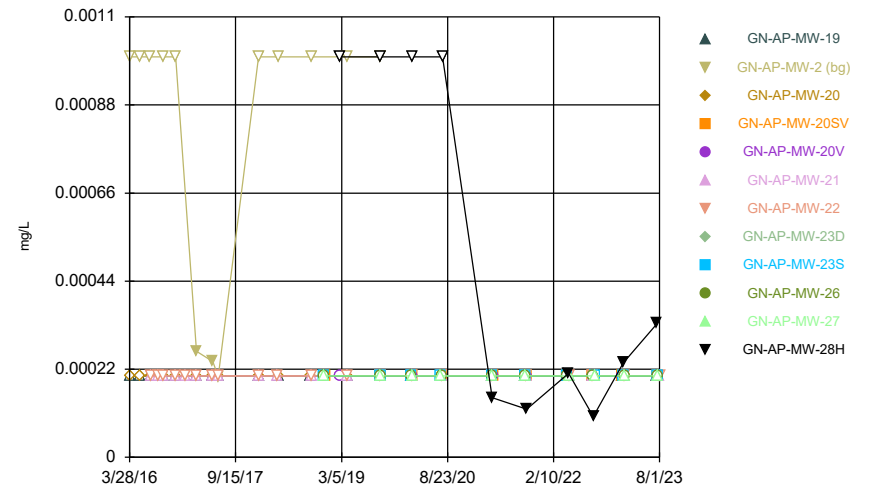
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



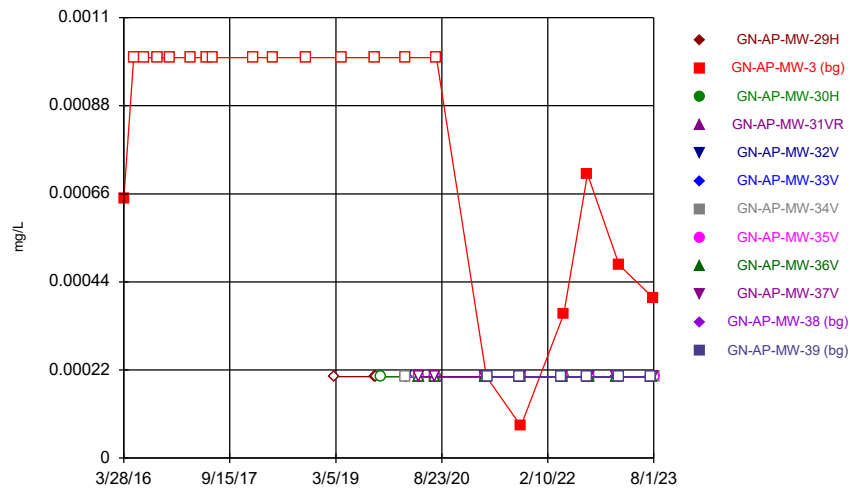
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



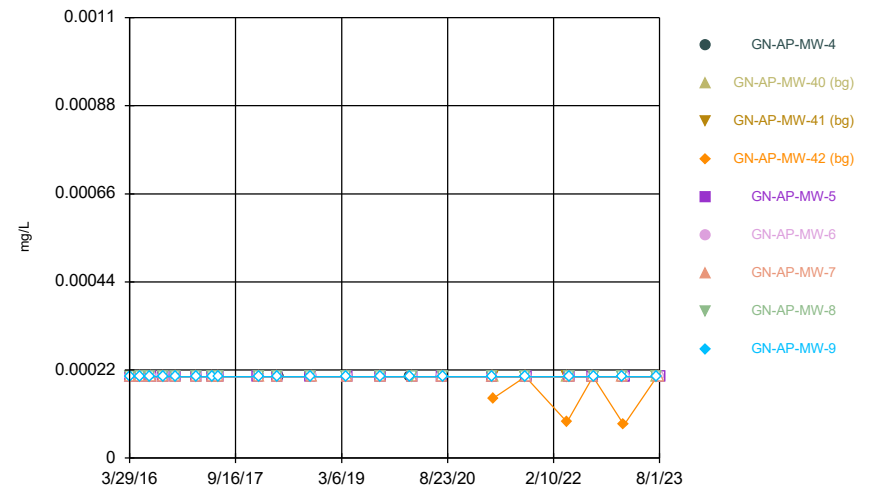
Constituent: Thallium Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



Constituent: Thallium Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series



Constituent: Thallium Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

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	<0.001015	<0.001015	<0.001015	<0.001015					
5/17/2016	<0.001015				<0.001015		<0.001015		0.000869 (J)
5/18/2016		<0.001015	<0.001015	<0.001015					
5/19/2016						<0.001015			
7/11/2016					<0.001015	<0.001015			
7/13/2016	<0.001015	<0.001015	<0.001015						
7/14/2016				<0.001015			<0.001015		0.000882 (J)
7/18/2016									
8/22/2016						<0.001015			
9/12/2016			<0.001015	<0.001015					
9/13/2016	<0.001015	<0.001015			<0.001015		<0.001015		0.000807 (J)
9/14/2016						<0.001015			
11/14/2016		<0.001015	<0.001015	0.000748 (J)			<0.001015		
11/15/2016	<0.001015				<0.001015	<0.001015			
11/16/2016									0.000801 (J)
1/3/2017						<0.001015			
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	<0.001015	<0.001015				<0.001015			
5/24/2017			<0.001015	<0.001015	<0.001015		<0.001015		0.000774 (J)
6/19/2017	<0.001015	<0.001015					<0.001015		0.000792 (J)
6/20/2017						<0.001015			
6/21/2017			<0.001015	<0.001015	<0.001015				
1/9/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		0.000904 (J)
1/10/2018	<0.001015								
4/16/2018	<0.001015	<0.001015	<0.001015						
4/19/2018				<0.001015	<0.001015	<0.001015	<0.001015		0.000731 (J)
10/1/2018							<0.001015		<0.001015
10/2/2018	<0.001015								
10/4/2018		<0.001015	<0.001015						
10/5/2018				<0.001015	<0.001015	<0.001015			
12/17/2018									
2/25/2019								<0.001015	
2/27/2019									
4/3/2019	<0.001015	<0.001015	0.000871 (J)	<0.001015	0.000939 (J)	0.00113 (J)	<0.001015		0.00135 (J)
5/7/2019						0.000998 (J)			
9/16/2019	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015	
9/17/2019				<0.001015	<0.001015				<0.001015
9/18/2019						<0.001015			
2/17/2020	<0.001015	<0.001015							
2/18/2020			<0.001015						
2/19/2020				<0.001015	<0.001015				
2/25/2020						<0.001015	<0.001015	<0.001015	
2/26/2020									<0.001015
7/22/2020	<0.001015	<0.001015							
7/23/2020					<0.001015				
7/27/2020			<0.001015	<0.001015					
7/28/2020						<0.001015	<0.001015	<0.001015	
7/29/2020									0.000845 (J)
4/5/2021	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
 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				<0.001015	<0.001015	<0.001015			0.000633 (J)
9/21/2021	<0.001015	<0.001015							
9/22/2021			<0.001015	<0.001015	<0.001015				
9/28/2021						<0.001015	<0.001015	<0.001015	
9/29/2021									<0.001015
4/20/2022									0.00068 (J)
4/26/2022									
4/27/2022					<0.001015		<0.001015	<0.001015	
5/2/2022	<0.001015	<0.001015		<0.001015		<0.001015			
5/3/2022			<0.001015						
8/30/2022							<0.001015	<0.001015	<0.001015
8/31/2022	<0.001015					<0.001015			
9/6/2022		<0.001015	<0.001015		<0.001015				
9/7/2022				<0.001015					
1/24/2023						<0.001015		0.00427	
1/25/2023		0.00275							
1/30/2023							0.000516 (J)		0.00191
1/31/2023					<0.001015				
2/1/2023				<0.001015					
2/6/2023	<0.001015		<0.001015						
7/18/2023	<0.001015		<0.001015						
7/19/2023				<0.001015			<0.001015	0.00779	
7/24/2023									
7/25/2023									0.00137
7/26/2023					<0.001015				
7/31/2023		0.00322							
8/1/2023						<0.001015			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
 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			<0.001015
3/30/2016			
5/17/2016			<0.001015
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.001015
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.001015
11/14/2016			<0.001015
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			0.000728 (J)
5/22/2017			
5/24/2017			<0.001015
6/19/2017			<0.001015
6/20/2017			
6/21/2017			
1/9/2018			<0.001015
1/10/2018			
4/16/2018			
4/19/2018			<0.001015
10/1/2018			<0.001015
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.001015		
2/25/2019			
2/27/2019		<0.001015	
4/3/2019			<0.001015
5/7/2019			
9/16/2019			
9/17/2019		<0.001015	
9/18/2019	<0.001015		<0.001015
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.001015
2/26/2020	<0.001015	<0.001015	
7/22/2020			<0.001015
7/23/2020	<0.001015	<0.001015	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.001015	<0.001015	<0.001015
9/21/2021			
9/22/2021			
9/28/2021			<0.001015
9/29/2021	<0.001015	<0.001015	
4/20/2022	<0.001015		
4/26/2022		<0.001015	<0.001015
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			<0.001015
8/31/2022	<0.001015	<0.001015	
9/6/2022			
9/7/2022			
1/24/2023	<0.001015		<0.001015
1/25/2023		0.00475	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	<0.001015	0.0127	
7/25/2023			<0.001015
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

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	<0.001015	<0.003							
3/29/2016			<0.001015						
5/18/2016	<0.001015	<0.003	<0.001015						
7/11/2016		<0.003							
7/13/2016	<0.001015		<0.001015			<0.001015			
7/14/2016							<0.001015		
8/22/2016						<0.001015	<0.001015		
9/13/2016	<0.001015					<0.001015	<0.001015		
9/14/2016		<0.003	<0.001015						
11/14/2016			<0.001015						
11/15/2016						<0.001015	<0.001015		
11/16/2016	<0.001015	<0.003							
1/3/2017						<0.001015	<0.001015		
2/27/2017	<0.001015								
2/28/2017			0.000643 (J)						
3/1/2017		0.00062 (J)				<0.001015	0.000678 (J)		
5/22/2017	<0.001015								
5/23/2017		<0.003				<0.001015	<0.001015		
5/24/2017			<0.001015						
6/19/2017		<0.003	<0.001015						
6/20/2017						<0.001015	<0.001015		
6/21/2017	<0.001015								
1/9/2018			<0.001015					<0.001015	
1/10/2018	<0.001015	<0.003				<0.001015			
4/17/2018						<0.001015	<0.001015		
4/19/2018	<0.001015	<0.003	<0.001015						
10/1/2018			<0.001015						
10/2/2018	<0.001015								
10/3/2018		<0.003							
10/4/2018						<0.001015	<0.001015		
12/5/2018								<0.001015	<0.001015
12/6/2018									
12/13/2018				0.000904 (J)					
2/26/2019									
2/27/2019					<0.001015				
4/1/2019	0.00123 (J)	0.000946 (J)							
4/2/2019						<0.001015	<0.001015		
4/3/2019			<0.001015						
9/16/2019									
9/17/2019									<0.001015
9/18/2019	<0.001015	<0.003	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	0.000804 (J)	
2/18/2020	<0.001015								
2/19/2020								<0.001015	<0.001015
2/25/2020			<0.001015	<0.001015	<0.001015				
2/26/2020						<0.001015	<0.001015		
7/21/2020								<0.001015	<0.001015
7/22/2020			<0.001015	<0.001015	<0.001015				
7/27/2020	<0.001015								
7/28/2020						<0.001015	<0.001015		
7/29/2020									
4/5/2021	<0.001015								
4/6/2021								<0.001015	<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
 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						<0.001015	<0.001015		
4/12/2021			<0.001015	<0.001015	<0.001015				
9/21/2021								<0.001015	<0.001015
9/22/2021	<0.001015								
9/27/2021						<0.001015	<0.001015		
9/28/2021			<0.001015	<0.001015	<0.001015				
4/19/2022	<0.001015				<0.001015				
4/20/2022			<0.001015	<0.001015				<0.001015	<0.001015
4/27/2022									
5/2/2022									
5/3/2022						<0.001015	<0.001015		
8/29/2022					<0.001015				
8/30/2022	<0.001015		<0.001015	<0.001015		<0.001015	<0.001015		
8/31/2022									
9/6/2022									
9/7/2022								<0.001015	<0.001015
1/24/2023			0.00188	<0.001015	<0.001015				
1/25/2023	<0.001015								
1/30/2023									
1/31/2023								<0.001015	<0.001015
2/6/2023						<0.001015	<0.001015		
2/7/2023									
7/18/2023	<0.001015								
7/19/2023									
7/25/2023			0.000756 (J)	<0.001015	<0.001015			<0.001015	<0.001015
7/26/2023						<0.001015			
8/1/2023							<0.001015		

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
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		<0.001015	
12/6/2018	<0.001015		
12/13/2018			
2/26/2019			<0.001015
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.001015
9/17/2019			
9/18/2019	<0.001015	<0.001015	
2/18/2020			
2/19/2020	<0.001015		
2/25/2020		<0.001015	<0.001015
2/26/2020			
7/21/2020		<0.001015	
7/22/2020	<0.001015		
7/27/2020			
7/28/2020			
7/29/2020			<0.001015
4/5/2021			<0.001015
4/6/2021		<0.001015	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.001015		
4/12/2021			
9/21/2021		<0.001015	
9/22/2021	<0.001015		
9/27/2021			
9/28/2021			<0.001015
4/19/2022			
4/20/2022	<0.001015		
4/27/2022			<0.001015
5/2/2022		<0.001015	
5/3/2022			
8/29/2022	<0.001015		
8/30/2022			
8/31/2022			<0.001015
9/6/2022		<0.001015	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.001015
1/31/2023			
2/6/2023		<0.001015	
2/7/2023	<0.001015		
7/18/2023			
7/19/2023			<0.001015
7/25/2023	<0.001015	<0.001015	
7/26/2023			
8/1/2023			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

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		<0.001015							
5/17/2016		<0.001015							
7/11/2016		<0.001015							
9/14/2016		<0.001015							
11/16/2016		<0.001015							
3/1/2017		0.000613 (J)							
5/23/2017		<0.001015							
6/19/2017		<0.001015							
1/10/2018		<0.001015							
4/19/2018		<0.001015							
10/3/2018		<0.001015							
2/26/2019	<0.001015								
4/2/2019		<0.001015							
9/17/2019	<0.001015	<0.001015							
9/26/2019	<0.001015								
10/22/2019			<0.001015						
2/19/2020		<0.001015	<0.001015				<0.001015		
2/25/2020	<0.001015					<0.001015			
2/26/2020					<0.001015				
4/29/2020				<0.001015				<0.001015	<0.001015
7/20/2020					<0.001015				<0.001015
7/21/2020						<0.001015	<0.001015	<0.001015	
7/23/2020			<0.001015						
7/27/2020		<0.001015		<0.001015					
7/29/2020	<0.001015								
3/30/2021					<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/5/2021	<0.001015	<0.001015		<0.001015					
4/6/2021			<0.001015						
4/12/2021									
9/21/2021									
9/22/2021						<0.001015			<0.001015
9/27/2021		<0.001015			<0.001015				
9/28/2021	<0.001015								
9/29/2021			<0.001015	<0.001015			<0.001015	<0.001015	
4/19/2022									
4/26/2022	<0.001015				<0.001015	<0.001015			<0.001015
4/27/2022				<0.001015			<0.001015	<0.001015	
5/2/2022			<0.001015						
5/3/2022		<0.001015							
8/29/2022									
8/30/2022		<0.001015							
8/31/2022	<0.001015		<0.001015	<0.001015					
9/6/2022					<0.001015	<0.001015			<0.001015
9/7/2022							<0.001015	<0.001015	
1/24/2023	<0.001015			<0.001015					
1/25/2023						0.0157			<0.001015
1/31/2023			<0.001015				<0.001015		
2/1/2023									
2/7/2023		<0.001015			<0.001015			<0.001015	
7/19/2023	<0.001015		<0.001015	<0.001015					
7/24/2023						0.029			<0.001015
7/26/2023					<0.001015				

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
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
7/31/2023		<0.001015							
8/1/2023							<0.001015	<0.001015	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.001015		
7/20/2020	<0.001015		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.001015		
4/5/2021			
4/6/2021			
4/12/2021		<0.001015	<0.001015
9/21/2021		<0.001015	<0.001015
9/22/2021			
9/27/2021	<0.001015		
9/28/2021			
9/29/2021			
4/19/2022		<0.001015	<0.001015
4/26/2022	<0.001015		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.001015	<0.001015
8/30/2022			
8/31/2022			
9/6/2022	<0.001015		
9/7/2022			
1/24/2023	<0.001015		
1/25/2023			
1/31/2023			
2/1/2023		<0.001015	
2/7/2023			<0.001015
7/19/2023		<0.001015	<0.001015
7/24/2023			
7/26/2023	<0.001015		

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.00238 (J)	
3/30/2016	<0.001015			<0.00102		<0.001015	<0.001015		
4/4/2016									<0.001015
5/17/2016	<0.001015								
5/19/2016						<0.001015	<0.001015		
5/23/2016				<0.00102				<0.001015	<0.001015
7/11/2016	<0.001015								
7/12/2016								<0.001015	<0.001015
7/13/2016						<0.001015	<0.001015		
7/14/2016				<0.00102					
9/13/2016				<0.00102		<0.001015	<0.001015	<0.001015	<0.001015
9/14/2016	<0.001015								
11/15/2016				<0.00102		<0.001015	<0.001015	<0.001015	<0.001015
11/16/2016	<0.001015								
2/28/2017	<0.001015							0.000718 (J)	0.000662 (J)
3/1/2017				0.000689 (J)		<0.001015	<0.001015		
5/23/2017				<0.00102		<0.001015	<0.001015		
5/24/2017	<0.001015							<0.001015	<0.001015
6/20/2017				<0.00102		<0.001015	<0.001015	<0.001015	<0.001015
6/21/2017	<0.001015								
1/9/2018				<0.00102					
1/10/2018	<0.001015					<0.001015	<0.001015	<0.001015	<0.001015
4/17/2018				<0.00102		<0.001015	<0.001015	<0.001015	<0.001015
4/19/2018	<0.001015								
10/1/2018				<0.00102				<0.001015	<0.001015
10/3/2018	<0.001015								
10/4/2018						<0.001015	<0.001015		
4/1/2019								<0.001015	<0.001015
4/2/2019	<0.001015			<0.00102		0.000819 (J)	0.00089 (J)		
9/17/2019	<0.001015							<0.001015	<0.001015
9/18/2019				<0.00102		<0.001015	<0.001015		
2/17/2020									<0.001015
2/18/2020	<0.001015								
2/25/2020								<0.001015	
2/26/2020				<0.00102		<0.001015	<0.001015		
7/27/2020	<0.001015								
7/28/2020				<0.00102		<0.001015	<0.001015		
7/29/2020								<0.001015	<0.001015
4/5/2021	<0.001015								<0.001015
4/6/2021								<0.001015	
4/7/2021				<0.00102		<0.001015	<0.001015		
4/12/2021		<0.001015	<0.001015						
4/13/2021				<0.001015					
9/21/2021		<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
9/27/2021	<0.001015				<0.00102	<0.001015	<0.001015		
4/19/2022		<0.001015	<0.001015	<0.001015					
5/2/2022	<0.001015							<0.001015	<0.001015
5/3/2022				<0.00102		<0.001015	<0.001015		
8/29/2022		<0.001015	<0.001015	<0.001015					
8/30/2022	<0.001015				<0.00102	<0.001015	<0.001015		
8/31/2022								<0.001015	<0.001015
1/25/2023							<0.001015	<0.001015	<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.001015	<0.001015	<0.001015					
2/6/2023					<0.00102	<0.001015			
2/7/2023	<0.001015								
7/18/2023				<0.001015					<0.001015
7/19/2023		<0.001015	<0.001015					<0.001015	
7/25/2023	<0.001015								
7/26/2023						<0.001015	<0.001015		
8/1/2023					0.00132				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

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)	<0.005	0.00148 (J)	<0.005					
5/17/2016	<0.005				0.0016 (J)		0.00337 (J)		0.0112
5/18/2016		<0.005	0.00194 (J)	<0.005					
5/19/2016						0.0015 (J)			
7/11/2016					0.00112 (J)	<0.005			
7/13/2016	<0.005	<0.005	0.0021 (J)						
7/14/2016				<0.005			0.00407 (J)		0.013
7/18/2016									
8/22/2016						<0.005			
9/12/2016			0.00456 (J)	<0.005					
9/13/2016	<0.005	<0.005			<0.005		0.00394 (J)		0.0124
9/14/2016						<0.005			
11/14/2016		<0.005	0.00241 (J)	<0.005			0.0037 (J)		
11/15/2016	<0.005				<0.005	<0.005			
11/16/2016									0.0121
1/3/2017						<0.005			
2/27/2017					<0.005	<0.005			
2/28/2017	<0.005	<0.005	0.0022 (J)	<0.005			0.00409 (J)		0.0127
5/22/2017	<0.005	<0.005				<0.005			
5/24/2017			0.00564	<0.005	<0.005		0.00419 (J)		0.0121
6/19/2017	<0.005	<0.005					0.00424 (J)		0.0129
6/20/2017						<0.005			
6/21/2017			0.00257 (J)	<0.005	<0.005				
1/9/2018		<0.005	0.00886	<0.005	<0.005	<0.005	0.00505		0.0138
1/10/2018	<0.005								
4/16/2018	<0.005	<0.005	0.00754						
4/19/2018				<0.005	0.00113 (J)	<0.005	0.00484 (J)		0.0125
10/1/2018							0.00466 (J)		0.0118
10/2/2018	<0.005								
10/4/2018		<0.005	0.0081						
10/5/2018				<0.005	<0.005	0.0015 (J)			
12/17/2018									
2/25/2019								0.00105 (J)	
2/27/2019									
4/3/2019	<0.005	<0.005	0.00726	<0.005	<0.005	0.00207 (J)	0.00466 (J)		0.0106
5/7/2019						0.0016 (J)			
9/16/2019	<0.005	<0.005	0.00538				0.00492 (J)	0.00111 (J)	
9/17/2019				<0.005	0.00108 (J)				0.0109
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)	0.00495 (J)	0.00105 (J)	
2/26/2020									0.011
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)	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 10/4/2023 3:53 PM View: Constituents View
 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						
8/30/2022							0.00556	0.000994	0.00745
8/31/2022	0.000173 (J)					0.000483			
9/6/2022		0.000164 (J)	0.0033		0.000568				
9/7/2022				0.000532					
1/24/2023						0.000708		0.00116	
1/25/2023		0.000212							
1/30/2023							0.00588		0.00753
1/31/2023					0.000621				
2/1/2023				0.00063					
2/6/2023	0.000194 (J)		0.00233						
7/18/2023	0.0002 (J)		0.00299						
7/19/2023				0.000507			0.00529	0.00121	
7/24/2023									
7/25/2023									0.00747
7/26/2023					0.000657				
7/31/2023		0.000149 (J)							
8/1/2023						0.000497			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
 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 10/4/2023 3:53 PM View: Constituents View
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			
8/30/2022			0.00265
8/31/2022	0.00203	0.00134	
9/6/2022			
9/7/2022			
1/24/2023	0.00179		0.00255
1/25/2023		0.00146	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	0.0024	0.00147	
7/25/2023			0.00284
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

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)	<0.005							
3/29/2016			0.00424 (J)						
5/18/2016	0.00511	<0.005	0.00409 (J)						
7/11/2016		<0.005							
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		<0.005	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		<0.005				0.00348 (J)	0.00135 (J)		
5/22/2017	0.00252 (J)								
5/23/2017		<0.005				0.00294 (J)	0.00151 (J)		
5/24/2017			0.00369 (J)						
6/19/2017		<0.005	0.00397 (J)						
6/20/2017						0.00286 (J)	<0.000203		
6/21/2017	0.00314 (J)								
1/9/2018			0.00428 (J)					<0.000203	
1/10/2018	0.00294 (J)	<0.005				0.00318 (J)			
4/17/2018						0.00195 (J)	<0.000203		
4/19/2018	0.00298 (J)	<0.005	0.00374 (J)						
10/1/2018			0.00372 (J)						
10/2/2018	0.00361 (J)								
10/3/2018		<0.005							
10/4/2018						0.00309 (J)	<0.000203		
12/5/2018								0.00113 (J)	<0.005
12/6/2018									
12/13/2018				0.00301 (J)					
2/26/2019									
2/27/2019					0.00119 (J)				
4/1/2019	0.0024 (J)	<0.005							
4/2/2019						0.00134 (J)	<0.000203		
4/3/2019			0.00398 (J)						
9/16/2019									
9/17/2019									<0.005
9/18/2019	0.00322 (J)	<0.005	0.00425 (J)	0.00253 (J)	<0.005	0.00239 (J)	0.00129 (J)	0.00255 (J)	
2/18/2020	0.00196 (J)								
2/19/2020								<0.005	<0.005
2/25/2020			0.0043 (J)	0.00243 (J)	<0.005				
2/26/2020						0.00116 (J)	<0.000203		
7/21/2020								0.00175 (J)	<0.005
7/22/2020			0.00349 (J)	0.0042 (J)	0.00105 (J)				
7/27/2020	0.00221 (J)								
7/28/2020						0.00166 (J)	<0.000203		
7/29/2020									
4/5/2021	0.00228								
4/6/2021								0.0022	0.00026

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Date	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)		
8/29/2022					0.00278				
8/30/2022	0.00258		0.00359	0.00234		0.00144	0.00018 (J)		
8/31/2022									
9/6/2022									
9/7/2022								0.00168	0.000255
1/24/2023			0.00399	0.00218	0.00235				
1/25/2023	0.00165								
1/30/2023									
1/31/2023								0.00142	0.000173 (J)
2/6/2023						0.000813	0.000115 (J)		
2/7/2023									
7/18/2023	0.00223								
7/19/2023									
7/25/2023			0.00424	0.00229	0.00244			0.001	0.00013 (J)
7/26/2023						0.000427			
8/1/2023							<0.000203		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
 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		<0.005	
12/6/2018	<0.005		
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	<0.005	<0.005	
2/18/2020			
2/19/2020	<0.005		
2/25/2020		<0.005	0.00352 (J)
2/26/2020			
7/21/2020		<0.005	
7/22/2020	<0.005		
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 10/4/2023 3:53 PM View: Constituents View
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			
8/29/2022	0.000112 (J)		
8/30/2022			
8/31/2022			0.00272
9/6/2022		0.000198 (J)	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.00275
1/31/2023			
2/6/2023		0.000165 (J)	
2/7/2023	0.000102 (J)		
7/18/2023			
7/19/2023			0.0026
7/25/2023	0.000135 (J)	0.000163 (J)	
7/26/2023			
8/1/2023			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

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		<0.005							
5/17/2016		<0.005							
7/11/2016		<0.005							
9/14/2016		<0.005							
11/16/2016		<0.005							
3/1/2017		<0.005							
5/23/2017		<0.005							
6/19/2017		<0.005							
1/10/2018		<0.005							
4/19/2018		<0.005							
10/3/2018		<0.005							
2/26/2019	0.00168 (J)								
4/2/2019		<0.005							
9/17/2019	0.00222 (J)	<0.005							
9/26/2019	0.00225 (J)								
10/22/2019			0.00169 (J)						
2/19/2020		<0.005	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)				<0.005	0.00178 (J)
7/20/2020					<0.005				<0.005
7/21/2020						0.0111	0.00401 (J)	0.00222 (J)	
7/23/2020			0.00536						
7/27/2020		<0.005		0.00185 (J)					
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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		0.00063							
8/31/2022	0.00217		0.00428	0.00581					
9/6/2022					0.00679	0.0122			0.00268
9/7/2022							0.00354	0.00251	
1/24/2023	0.00198			0.0065					
1/25/2023						0.0145			0.00299
1/31/2023			0.00343				0.00321		
2/1/2023									
2/7/2023		0.000466			0.00472			0.00301	
7/19/2023	0.0023		0.00464	0.00609					
7/24/2023						0.0108			0.00343
7/26/2023					0.0038				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
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
7/31/2023		0.000736							
8/1/2023							0.00367	0.00361	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.0042 (J)		
7/20/2020	0.00169 (J)		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.000664		
4/5/2021			
4/6/2021			
4/12/2021		0.000283	0.000946
9/21/2021		0.00013 (J)	0.00049
9/22/2021			
9/27/2021	0.00048		
9/28/2021			
9/29/2021			
4/19/2022		0.00019 (J)	0.00043
4/26/2022	0.00073		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.000109 (J)	0.000281
8/30/2022			
8/31/2022			
9/6/2022	0.000657		
9/7/2022			
1/24/2023	0.000801		
1/25/2023			
1/31/2023			
2/1/2023		0.000112 (J)	
2/7/2023			0.000203
7/19/2023		<0.000203	0.000296
7/24/2023			
7/26/2023	0.00037		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.00155 (J)	
3/30/2016	0.002 (J)				<0.005	0.00105 (J)	<0.005		
4/4/2016									0.00191 (J)
5/17/2016	<0.005								
5/19/2016						<0.000203	<0.005		
5/23/2016					<0.005			0.00227 (J)	0.00213 (J)
7/11/2016	<0.005								
7/12/2016								0.00206 (J)	0.00183 (J)
7/13/2016						<0.000203	<0.005		
7/14/2016					<0.005				
9/13/2016					<0.005	<0.000203	<0.005	0.00179 (J)	0.00168 (J)
9/14/2016	<0.005								
11/15/2016					<0.005	<0.000203	<0.005	0.00171 (J)	0.00181 (J)
11/16/2016	<0.005								
2/28/2017	<0.005							0.00232 (J)	0.00404 (J)
3/1/2017					<0.005	<0.000203	<0.005		
5/23/2017					<0.005	<0.000203	<0.005		
5/24/2017	<0.005							0.00151 (J)	0.00161 (J)
6/20/2017					<0.005	<0.000203	<0.005	0.00298 (J)	0.00155 (J)
6/21/2017	<0.005								
1/9/2018					<0.005				
1/10/2018	<0.005					<0.000203	<0.005	0.00196 (J)	0.00227 (J)
4/17/2018					<0.005	<0.000203	<0.005	0.00219 (J)	0.00174 (J)
4/19/2018	<0.005								
10/1/2018					<0.005			0.00188 (J)	0.00275 (J)
10/3/2018	<0.005								
10/4/2018						<0.000203	<0.005		
4/1/2019								0.00177 (J)	0.00269 (J)
4/2/2019	<0.005				<0.005	<0.000203	<0.005		
9/17/2019	<0.005							0.00112 (J)	0.00324 (J)
9/18/2019					<0.005	<0.000203	<0.005		
2/17/2020									0.00246 (J)
2/18/2020	<0.005								
2/25/2020								<0.005	
2/26/2020					<0.005	<0.000203	<0.005		
7/27/2020	<0.005								
7/28/2020					<0.005	<0.000203	<0.005		
7/29/2020								0.00152 (J)	0.00222 (J)
4/5/2021	0.000142 (J)								0.00234
4/6/2021								0.00108	
4/7/2021					0.000148 (J)	9.55E-05 (J)	0.000194 (J)		
4/12/2021		0.000195 (J)	0.000179 (J)						
4/13/2021				0.000163 (J)					
9/21/2021		0.0001 (J)	<0.000203	<0.000203				0.0012	0.00308
9/27/2021	0.00018 (J)				0.00016 (J)	0.00014 (J)	0.00019 (J)		
4/19/2022		0.00017 (J)	0.00014 (J)	0.00027					
5/2/2022	0.00016 (J)							0.00107	0.00225
5/3/2022					0.00015 (J)	0.00015 (J)	0.00016 (J)		
8/29/2022		8.2E-05 (J)	<0.000203	0.000163 (J)					
8/30/2022	0.000129 (J)				0.000217	0.000172 (J)	0.000101 (J)		
8/31/2022								0.00113	0.00274
1/25/2023							0.000136 (J)	0.000553	0.00295

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.000203	0.000108 (J)	0.000232					
2/6/2023					0.00034	0.000114 (J)			
2/7/2023	0.000196 (J)								
7/18/2023				<0.000203					0.00292
7/19/2023		<0.000203	<0.000203					0.000592	
7/25/2023	0.000137 (J)								
7/26/2023						<0.000203	0.000154 (J)		
8/1/2023					0.000336				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:53 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							0.0678	0.063	0.141
8/31/2022	0.0138					0.0551			
9/6/2022		0.00885	0.0776		0.0835				
9/7/2022				0.0422					
1/24/2023						0.056		0.0659	
1/25/2023		0.00984							
1/30/2023							0.0894		0.123
1/31/2023					0.067				
2/1/2023				0.0378					
2/6/2023	0.013		0.0741						
7/18/2023	0.0133		0.0727						
7/19/2023				0.0415			0.113	0.0841	
7/24/2023									
7/25/2023									0.119
7/26/2023					0.0572				
7/31/2023		0.00987							
8/1/2023						0.0525			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			0.0573
8/31/2022	0.101	0.0595	
9/6/2022			
9/7/2022			
1/24/2023	0.128		0.055
1/25/2023		0.0772	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	0.121	0.0841	
7/25/2023			0.0499
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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		
8/29/2022					0.0342				
8/30/2022	0.0146		0.0537	0.126		0.0425	0.0284		
8/31/2022									
9/6/2022									
9/7/2022								0.0426	0.0218
1/24/2023			0.0532	0.111	0.0348				
1/25/2023	0.0134								
1/30/2023									
1/31/2023								0.0495	0.0185
2/6/2023						0.0403	0.0256		
2/7/2023									
7/18/2023	0.0131								
7/19/2023									
7/25/2023			0.0543	0.109	0.0279			0.0501	0.0176
7/26/2023						0.0349			
8/1/2023							0.0236		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	0.0179		
8/30/2022			
8/31/2022			0.035
9/6/2022		0.0144	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.0328
1/31/2023			
2/6/2023		0.0135	
2/7/2023	0.0183		
7/18/2023			
7/19/2023			0.0366
7/25/2023	0.0178	0.0158	
7/26/2023			
8/1/2023			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		0.00866 (J)							
7/11/2016		0.00969 (J)							
9/14/2016		0.00864 (J)							
11/16/2016		0.00917 (J)							
3/1/2017		0.00869 (J)							
5/23/2017		0.00658 (J)							
6/19/2017		0.00672 (J)							
1/10/2018		0.00645 (J)							
4/19/2018		0.00625 (J)							
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)							
9/26/2019	0.0574								
10/22/2019			0.0702						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		0.0177							
8/31/2022	0.0678		0.0742	0.0301					
9/6/2022					0.0622	0.0629			0.0855
9/7/2022							0.0345	0.018	
1/24/2023	0.0638			0.0314					
1/25/2023						0.0615			0.0843
1/31/2023			0.0672				0.0295		
2/1/2023									
2/7/2023		0.0163			0.0527			0.0154	
7/19/2023	0.0648		0.0681	0.0332					
7/24/2023						0.0514			0.078
7/26/2023					0.0538				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		0.0157							
8/1/2023							0.0341	0.015	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.0336		
7/20/2020	0.0352		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.0355		
4/5/2021			
4/6/2021			
4/12/2021		0.008	0.0226
9/21/2021		0.0101	0.0283
9/22/2021			
9/27/2021	0.0367		
9/28/2021			
9/29/2021			
4/19/2022		0.00686	0.0279
4/26/2022	0.0353		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.00461	0.0302
8/30/2022			
8/31/2022			
9/6/2022	0.0376		
9/7/2022			
1/24/2023	0.0371		
1/25/2023			
1/31/2023			
2/1/2023		0.00956	
2/7/2023			0.0287
7/19/2023		0.0131	0.029
7/24/2023			
7/26/2023	0.0356		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.0277	
3/30/2016	0.0219				0.0339	0.0277	0.025		
4/4/2016									0.0789
5/17/2016	0.0196								
5/19/2016						0.0282	0.0249		
5/23/2016					0.0289			0.0261	0.0733
7/11/2016	0.0286								
7/12/2016								0.0251	0.102
7/13/2016						0.0222	0.0279		
7/14/2016					0.0281				
9/13/2016					0.0301	0.017	0.0153	0.0189	0.0793
9/14/2016	0.0261								
11/15/2016					0.0296	0.0151	0.0225	0.0186	0.0882
11/16/2016	0.0291								
2/28/2017	0.0229							0.0196	0.111
3/1/2017					0.0395	0.0212	0.0261		
5/23/2017					0.0307	0.0162	0.0208		
5/24/2017	0.0202							0.0228	0.0914
6/20/2017					0.0367	0.02	0.0244	0.0188	0.0948
6/21/2017	0.0186								
1/9/2018					0.0269				
1/10/2018	0.0261					0.0183	0.0235	0.0141	0.0836
4/17/2018					0.0441	0.0271	0.0252	0.0179	0.0979
4/19/2018	0.0231								
10/1/2018					0.0298			0.0168	0.118
10/3/2018	0.0296								
10/4/2018						0.0189	0.0265		
4/1/2019								0.0209	0.105
4/2/2019	0.0254				0.0371	0.0243	0.0236		
9/17/2019	0.0344							0.0202	0.118
9/18/2019					0.0335	0.023	0.029		
2/17/2020									0.109
2/18/2020	0.0185								
2/25/2020								0.0168	
2/26/2020					0.0231	0.0254	0.0261		
7/27/2020	0.0207								
7/28/2020					0.0332	0.026	0.0248		
7/29/2020								0.0206	0.105
4/5/2021	0.0151								0.104
4/6/2021								0.018	
4/7/2021					0.027	0.0211	0.0245		
4/12/2021		0.0107	0.0155						
4/13/2021				0.0154					
9/21/2021		0.00746	0.0213	0.0114				0.0179	0.114
9/27/2021	0.0155				0.0266	0.0223	0.0218		
4/19/2022		0.00636	0.0185	0.0148					
5/2/2022	0.0153							0.0188	0.114
5/3/2022					0.0219	0.0232	0.0191		
8/29/2022		0.00619	0.0212	0.0147					
8/30/2022	0.0157				0.0234	0.0219	0.0188		
8/31/2022								0.018	0.114
1/25/2023							0.0203	0.0134	0.111

Time Series

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		0.00572	0.0176	0.0147					
2/6/2023					0.0204	0.02			
2/7/2023	0.0151								
7/18/2023				0.00988					0.107
7/19/2023		0.00652	0.0189					0.0123	
7/25/2023	0.0166								
7/26/2023						0.0186	0.017		
8/1/2023					0.0216				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)	<0.001015			
3/29/2016							<0.001015		<0.001015
3/30/2016	<0.001015	<0.001015	<0.001015	<0.001015					
5/17/2016	<0.001015				<0.001015		<0.001015		<0.001015
5/18/2016		<0.001015	<0.001015	<0.001015					
5/19/2016						<0.001015			
7/11/2016					<0.001015	<0.001015			
7/13/2016	<0.001015	<0.001015	<0.001015						
7/14/2016				<0.001015			<0.001015		<0.001015
7/18/2016									
8/22/2016						<0.001015			
9/12/2016			<0.001015	<0.001015					
9/13/2016	<0.001015	<0.001015			<0.001015		<0.001015		<0.001015
9/14/2016						<0.001015			
11/14/2016		<0.001015	<0.001015	<0.001015			<0.001015		
11/15/2016	<0.001015				<0.001015	<0.001015			
11/16/2016									<0.001015
1/3/2017						<0.001015			
2/27/2017					<0.001015	<0.001015			
2/28/2017	<0.001015	<0.001015	<0.001015	<0.001015			<0.001015		<0.001015
5/22/2017	<0.001015	<0.001015					<0.001015		
5/24/2017			<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
6/19/2017	<0.001015	<0.001015					<0.001015		<0.001015
6/20/2017						<0.001015			
6/21/2017			<0.001015	<0.001015	<0.001015				
1/9/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
1/10/2018	<0.001015								
4/16/2018	<0.001015	<0.001015	<0.001015						
4/19/2018				<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
10/1/2018							<0.001015		<0.001015
10/2/2018	<0.001015								
10/4/2018		<0.001015	<0.001015						
10/5/2018				<0.001015	<0.001015	<0.001015			
12/17/2018									
2/25/2019								<0.001015	
2/27/2019									
4/3/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
5/7/2019						<0.001015			
9/16/2019	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015	
9/17/2019				<0.001015	<0.001015				<0.001015
9/18/2019						<0.001015			
2/17/2020	<0.001015	<0.001015							
2/18/2020			<0.001015						
2/19/2020				<0.001015	<0.001015				
2/25/2020						<0.001015	<0.001015	<0.001015	
2/26/2020									<0.001015
7/22/2020	<0.001015	<0.001015							
7/23/2020					<0.001015				
7/27/2020			<0.001015	<0.001015					
7/28/2020						<0.001015	<0.001015	<0.001015	
7/29/2020									<0.001015
4/5/2021	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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				<0.001015	<0.001015	<0.001015			<0.001015
9/21/2021	<0.001015	<0.001015							
9/22/2021			<0.001015	<0.001015	<0.001015				
9/28/2021						<0.001015	<0.001015	<0.001015	
9/29/2021									<0.001015
4/20/2022									<0.001015
4/26/2022									
4/27/2022					<0.001015		<0.001015	<0.001015	
5/2/2022	<0.001015	<0.001015		<0.001015		<0.001015			
5/3/2022			<0.001015						
8/30/2022							<0.001015	<0.001015	<0.001015
8/31/2022	<0.001015					<0.001015			
9/6/2022		<0.001015	<0.001015		<0.001015				
9/7/2022				<0.001015					
1/24/2023						<0.001015		<0.001015	
1/25/2023		<0.001015							
1/30/2023							<0.001015		<0.001015
1/31/2023					<0.001015				
2/1/2023				<0.001015					
2/6/2023	<0.001015		<0.001015						
7/18/2023	<0.001015		<0.001015						
7/19/2023				<0.001015			<0.001015	<0.001015	
7/24/2023									
7/25/2023									<0.001015
7/26/2023					<0.001015				
7/31/2023		<0.001015							
8/1/2023						<0.001015			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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			<0.001015
3/30/2016			
5/17/2016			<0.001015
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.001015
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.001015
11/14/2016			<0.001015
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.001015
5/22/2017			
5/24/2017			<0.001015
6/19/2017			<0.001015
6/20/2017			
6/21/2017			
1/9/2018			<0.001015
1/10/2018			
4/16/2018			
4/19/2018			<0.001015
10/1/2018			<0.001015
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.001015		
2/25/2019			
2/27/2019		<0.001015	
4/3/2019			<0.001015
5/7/2019			
9/16/2019			
9/17/2019		<0.001015	
9/18/2019	<0.001015		<0.001015
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.001015
2/26/2020	<0.001015	<0.001015	
7/22/2020			<0.001015
7/23/2020	<0.001015	<0.001015	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.001015	<0.001015	<0.001015
9/21/2021			
9/22/2021			
9/28/2021			<0.001015
9/29/2021	<0.001015	<0.001015	
4/20/2022	<0.001015		
4/26/2022		<0.001015	<0.001015
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			<0.001015
8/31/2022	<0.001015	<0.001015	
9/6/2022			
9/7/2022			
1/24/2023	<0.001015		<0.001015
1/25/2023		<0.001015	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	<0.001015	<0.001015	
7/25/2023			<0.001015
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.001015	<0.003							
3/29/2016			<0.001015						
5/18/2016	<0.001015	<0.003	<0.001015						
7/11/2016		<0.003							
7/13/2016	<0.001015		<0.001015			<0.001015			
7/14/2016							<0.001015		
8/22/2016						<0.001015	<0.001015		
9/13/2016	<0.001015					<0.001015	<0.001015		
9/14/2016		<0.003	<0.001015						
11/14/2016			<0.001015						
11/15/2016						<0.001015	<0.001015		
11/16/2016	<0.001015	<0.003							
1/3/2017						<0.001015	<0.001015		
2/27/2017	<0.001015								
2/28/2017			<0.001015						
3/1/2017		<0.003				<0.001015	<0.001015		
5/22/2017	<0.001015								
5/23/2017		<0.003				<0.001015	<0.001015		
5/24/2017			<0.001015						
6/19/2017		<0.003	<0.001015						
6/20/2017						<0.001015	<0.001015		
6/21/2017	<0.001015								
1/9/2018			<0.001015					<0.001015	
1/10/2018	<0.001015	<0.003				<0.001015			
4/17/2018						<0.001015	<0.001015		
4/19/2018	<0.001015	<0.003	<0.001015						
10/1/2018			<0.001015						
10/2/2018	<0.001015								
10/3/2018		<0.003							
10/4/2018						<0.001015	<0.001015		
12/5/2018								<0.001015	<0.001015
12/6/2018									
12/13/2018				<0.001015					
2/26/2019									
2/27/2019					<0.001015				
4/1/2019	<0.001015	<0.003							
4/2/2019						<0.001015	<0.001015		
4/3/2019			<0.001015						
9/16/2019									
9/17/2019									<0.001015
9/18/2019	<0.001015	<0.003	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
2/18/2020	<0.001015								
2/19/2020								<0.001015	<0.001015
2/25/2020			<0.001015	<0.001015	<0.001015				
2/26/2020						<0.001015	<0.001015		
7/21/2020								<0.001015	<0.001015
7/22/2020			<0.001015	<0.001015	<0.001015				
7/27/2020	<0.001015								
7/28/2020						<0.001015	<0.001015		
7/29/2020									
4/5/2021	<0.001015								
4/6/2021								<0.001015	<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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						<0.001015	<0.001015		
4/12/2021			<0.001015	<0.001015	<0.001015				
9/21/2021								<0.001015	<0.001015
9/22/2021	<0.001015								
9/27/2021						<0.001015	<0.001015		
9/28/2021			<0.001015	<0.001015	<0.001015				
4/19/2022	<0.001015				<0.001015				
4/20/2022			<0.001015	<0.001015				<0.001015	<0.001015
4/27/2022									
5/2/2022									
5/3/2022						<0.001015	<0.001015		
8/29/2022					<0.001015				
8/30/2022	<0.001015		<0.001015	<0.001015		<0.001015	<0.001015		
8/31/2022									
9/6/2022									
9/7/2022								<0.001015	<0.001015
1/24/2023			<0.001015	<0.001015	<0.001015				
1/25/2023	<0.001015								
1/30/2023									
1/31/2023								<0.001015	<0.001015
2/6/2023						<0.001015	<0.001015		
2/7/2023									
7/18/2023	<0.001015								
7/19/2023									
7/25/2023			<0.001015	<0.001015	<0.001015			<0.001015	<0.001015
7/26/2023						<0.001015			
8/1/2023							<0.001015		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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		<0.001015	
12/6/2018	<0.001015		
12/13/2018			
2/26/2019			<0.001015
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.001015
9/17/2019			
9/18/2019	<0.001015	<0.001015	
2/18/2020			
2/19/2020	<0.001015		
2/25/2020		<0.001015	<0.001015
2/26/2020			
7/21/2020		<0.001015	
7/22/2020	<0.001015		
7/27/2020			
7/28/2020			
7/29/2020			<0.001015
4/5/2021			<0.001015
4/6/2021		<0.001015	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.001015		
4/12/2021			
9/21/2021		<0.001015	
9/22/2021	<0.001015		
9/27/2021			
9/28/2021			<0.001015
4/19/2022			
4/20/2022	<0.001015		
4/27/2022			<0.001015
5/2/2022		<0.001015	
5/3/2022			
8/29/2022	<0.001015		
8/30/2022			
8/31/2022			<0.001015
9/6/2022		<0.001015	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.001015
1/31/2023			
2/6/2023		<0.001015	
2/7/2023	<0.001015		
7/18/2023			
7/19/2023			<0.001015
7/25/2023	<0.001015	<0.001015	
7/26/2023			
8/1/2023			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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		<0.001015							
5/17/2016		<0.001015							
7/11/2016		<0.001015							
9/14/2016		<0.001015							
11/16/2016		<0.001015							
3/1/2017		<0.001015							
5/23/2017		<0.001015							
6/19/2017		<0.001015							
1/10/2018		<0.001015							
4/19/2018		<0.001015							
10/3/2018		<0.001015							
2/26/2019	<0.001015								
4/2/2019		<0.001015							
9/17/2019	<0.001015	<0.001015							
9/26/2019	<0.001015								
10/22/2019			<0.001015						
2/19/2020		<0.001015	<0.001015				<0.001015		
2/25/2020	<0.001015					<0.001015			
2/26/2020					<0.001015				
4/29/2020				<0.001015				<0.001015	<0.001015
7/20/2020					<0.001015				<0.001015
7/21/2020						<0.001015	<0.001015	<0.001015	
7/23/2020			<0.001015						
7/27/2020		<0.001015		<0.001015					
7/29/2020	<0.001015								
3/30/2021					<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/5/2021	<0.001015	<0.001015		<0.001015					
4/6/2021			<0.001015						
4/12/2021									
9/21/2021									
9/22/2021						<0.001015			<0.001015
9/27/2021		<0.001015			<0.001015				
9/28/2021	<0.001015								
9/29/2021			<0.001015	<0.001015			<0.001015	<0.001015	
4/19/2022									
4/26/2022	<0.001015				<0.001015	<0.001015			<0.001015
4/27/2022				<0.001015			<0.001015	<0.001015	
5/2/2022			<0.001015						
5/3/2022		<0.001015							
8/29/2022									
8/30/2022		<0.001015							
8/31/2022	<0.001015		<0.001015	<0.001015					
9/6/2022					<0.001015	<0.001015			<0.001015
9/7/2022							<0.001015	<0.001015	
1/24/2023	<0.001015			<0.001015					
1/25/2023						<0.001015			<0.001015
1/31/2023			<0.001015				<0.001015		
2/1/2023									
2/7/2023		<0.001015			<0.001015			<0.001015	
7/19/2023	<0.001015		<0.001015	<0.001015					
7/24/2023						<0.001015			<0.001015
7/26/2023					<0.001015				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		<0.001015							
8/1/2023							<0.001015	<0.001015	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.001015		
7/20/2020	<0.001015		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.001015		
4/5/2021			
4/6/2021			
4/12/2021		<0.001015	<0.001015
9/21/2021		<0.001015	<0.001015
9/22/2021			
9/27/2021	<0.001015		
9/28/2021			
9/29/2021			
4/19/2022		<0.001015	<0.001015
4/26/2022	<0.001015		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.001015	<0.001015
8/30/2022			
8/31/2022			
9/6/2022	<0.001015		
9/7/2022			
1/24/2023	<0.001015		
1/25/2023			
1/31/2023			
2/1/2023		<0.001015	
2/7/2023			<0.001015
7/19/2023		<0.001015	<0.001015
7/24/2023			
7/26/2023	<0.001015		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.001015	
3/30/2016	<0.001015			<0.001015		<0.001015	<0.001015		
4/4/2016									<0.001015
5/17/2016	<0.001015								
5/19/2016						<0.001015	<0.001015		
5/23/2016				<0.001015				<0.001015	<0.001015
7/11/2016	<0.001015								
7/12/2016								<0.001015	<0.001015
7/13/2016						<0.001015	<0.001015		
7/14/2016				<0.001015					
9/13/2016				<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
9/14/2016	<0.001015								
11/15/2016				<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
11/16/2016	<0.001015								
2/28/2017	<0.001015							<0.001015	<0.001015
3/1/2017				<0.001015		<0.001015	<0.001015		
5/23/2017				<0.001015		<0.001015	<0.001015		
5/24/2017	<0.001015							<0.001015	<0.001015
6/20/2017				<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
6/21/2017	<0.001015								
1/9/2018				<0.001015					
1/10/2018	<0.001015					<0.001015	<0.001015	<0.001015	<0.001015
4/17/2018				<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
4/19/2018	<0.001015								
10/1/2018				<0.001015				<0.001015	<0.001015
10/3/2018	<0.001015								
10/4/2018						<0.001015	<0.001015		
4/1/2019								<0.001015	<0.001015
4/2/2019	<0.001015			<0.001015		<0.001015	<0.001015		
9/17/2019	<0.001015							<0.001015	<0.001015
9/18/2019				<0.001015		<0.001015	<0.001015		
2/17/2020									<0.001015
2/18/2020	<0.001015								
2/25/2020								<0.001015	
2/26/2020				<0.001015		<0.001015	<0.001015		
7/27/2020	<0.001015								
7/28/2020				<0.001015		<0.001015	<0.001015		
7/29/2020								<0.001015	<0.001015
4/5/2021	<0.001015								<0.001015
4/6/2021								<0.001015	
4/7/2021				<0.001015		<0.001015	<0.001015		
4/12/2021		<0.001015	<0.001015						
4/13/2021				<0.001015					
9/21/2021		<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
9/27/2021	<0.001015				<0.001015	<0.001015	<0.001015		
4/19/2022		<0.001015	<0.001015	<0.001015					
5/2/2022	<0.001015							<0.001015	<0.001015
5/3/2022				<0.001015		<0.001015	<0.001015		
8/29/2022		<0.001015	<0.001015	<0.001015					
8/30/2022	<0.001015				<0.001015	<0.001015	<0.001015		
8/31/2022								<0.001015	<0.001015
1/25/2023							<0.001015	<0.001015	<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.001015	<0.001015	<0.001015					
2/6/2023					<0.001015	<0.001015			
2/7/2023	<0.001015								
7/18/2023				<0.001015					<0.001015
7/19/2023		<0.001015	<0.001015					<0.001015	
7/25/2023	<0.001015								
7/26/2023						<0.001015	<0.001015		
8/1/2023					<0.001015				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							1.42	1.38	3.33
8/31/2022	<0.1015					2.22			
9/6/2022		0.326	0.459		<0.1015				
9/7/2022				<0.1015					
1/24/2023						2.19		1.4	
1/25/2023		0.327							
1/30/2023							1.45		3.49
1/31/2023					<0.1015				
2/1/2023				<0.1015					
2/6/2023	<0.1015		0.463						
7/18/2023	<0.1015		0.483						
7/19/2023				<0.1015			1.51	1.43	
7/24/2023									
7/25/2023									3.56
7/26/2023					<0.1015				
7/31/2023		0.371							
8/1/2023						2.1			

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			1.72
8/31/2022	2.55	2.03	
9/6/2022			
9/7/2022			
1/24/2023	2.62		1.68
1/25/2023		2.17	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	2.55	2.12	
7/25/2023			1.65
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)	<0.1							
3/29/2016			3.48						
5/18/2016	0.0252 (J)	<0.1	3.61						
7/11/2016		<0.1							
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		<0.1	3.53						
11/14/2016			3.51						
11/15/2016						2.12	2.09		
11/16/2016	<0.1015	<0.1							
1/3/2017						2.01	1.89		
2/27/2017	<0.1015								
2/28/2017			3.44						
3/1/2017		<0.1				1.47	1.88		
5/22/2017	<0.1015								
5/23/2017		<0.1				1.41	1.87		
5/24/2017			3.31						
6/19/2017		<0.1	3.48						
6/20/2017						1.38	1.88		
6/21/2017	<0.1015								
8/14/2017	<0.1015		3.4						
8/15/2017		<0.1				2.04	1.87		
4/17/2018						1.66	2.04		
4/19/2018	0.0258 (J)	<0.1	3.74						
10/1/2018			3.73						
10/2/2018	<0.1015								
10/3/2018		<0.1							
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	<0.1							
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	<0.1	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 10/4/2023 3:54 PM View: Constituents View
 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		
8/29/2022				2.98					
8/30/2022	<0.1015	4.33	2.81			1.48	0.992		
8/31/2022									
9/6/2022									
9/7/2022								1.4	0.393
1/24/2023		4.55	2.62	2.83					
1/25/2023	<0.1015								
1/30/2023									
1/31/2023								1.37	0.313
2/6/2023						1.46	0.95		
2/7/2023									
7/18/2023	<0.1015								
7/19/2023									
7/25/2023		4.79	2.72	3.08				1.31	0.253
7/26/2023						1.33			
8/1/2023							0.833		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	0.997		
8/30/2022			
8/31/2022			0.786
9/6/2022		0.154	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.802
1/31/2023			
2/6/2023		0.155	
2/7/2023	0.972		
7/18/2023			
7/19/2023			0.824
7/25/2023	0.88	0.143	
7/26/2023			
8/1/2023			

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		<0.1015							
7/11/2016		<0.1015							
9/14/2016		<0.1015							
11/16/2016		<0.1015							
3/1/2017		<0.1015							
5/23/2017		<0.1015							
6/19/2017		<0.1015							
8/15/2017		<0.1015							
4/19/2018		<0.1015							
10/3/2018		<0.1015							
2/26/2019	1.17								
4/2/2019		<0.1015							
9/17/2019	1.18	<0.1015							
9/26/2019	1.22								
10/22/2019			0.0484 (J)						
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					
7/29/2020	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)						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		<0.1015							
8/31/2022	1.17		0.0465 (J)	0.142					
9/6/2022					0.409	0.137			0.144
9/7/2022							2.93	0.205	
1/24/2023	1.19			0.144					
1/25/2023						0.141			0.135
1/31/2023			0.0417 (J)				2.84		
2/1/2023									
2/7/2023		<0.1015			0.458			0.201	
7/19/2023	1.23		0.0463 (J)	0.14					
7/24/2023						0.113			0.121
7/26/2023					0.464				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		<0.1015							
8/1/2023							2.98	0.195	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.317		
7/20/2020	0.393		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.526		
4/5/2021			
4/6/2021			
4/12/2021		<0.1015	<0.1015
9/21/2021		<0.1015	<0.1015
9/22/2021			
9/27/2021	0.51		
9/28/2021			
9/29/2021			
4/19/2022		<0.1015	<0.1015
4/26/2022	0.434		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.1015	<0.1015
8/30/2022			
8/31/2022			
9/6/2022	0.41		
9/7/2022			
1/24/2023	0.392		
1/25/2023			
1/31/2023			
2/1/2023		<0.1015	
2/7/2023			<0.1015
7/19/2023		<0.1015	<0.1015
7/24/2023			
7/26/2023	0.355		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.161	
3/30/2016	0.193			1.82		2.89	1.85		
4/4/2016									<0.1015
5/17/2016	0.201								
5/19/2016						2.84	1.66		
5/23/2016				2.11				0.197	<0.1015
7/11/2016	0.375								
7/12/2016								0.17	<0.1015
7/13/2016						2.41	1.58		
7/14/2016				2.18					
9/13/2016				2.13		2.06	0.674	0.114	<0.1015
9/14/2016	0.507								
11/15/2016				2.22		2.08	1.72	0.0853 (J)	0.0256 (J)
11/16/2016	0.655								
2/28/2017	0.364							0.0452 (J)	0.021 (J)
3/1/2017				2.24		2.25	1.84		
5/23/2017				2.2		2.11	1.69		
5/24/2017	0.352							0.113	<0.1015
6/20/2017				2.2		2.5	1.75	0.0853 (J)	<0.1015
6/21/2017	0.263								
8/15/2017	0.23			2.16		1.34	1.68	0.0862 (J)	
8/16/2017									<0.1015 (U*)
4/17/2018				2.22		2.74	1.81	0.0649 (J)	0.0386 (J)
4/19/2018	0.305								
10/1/2018				2.64				0.03 (J)	<0.1015
10/3/2018	0.952								
10/4/2018						2.38	2.34		
4/1/2019								0.0345 (J)	<0.1015
4/2/2019	0.271			1.78		2.66	1.64		
9/17/2019	0.619							0.0439 (J)	<0.1015
9/18/2019				2.31		2.68	2.16		
2/17/2020									<0.1015
2/18/2020	0.281								
2/25/2020								<0.1015	
2/26/2020				0.84		2.94	1.99		
7/27/2020	0.3								
7/28/2020				2.05		2.79	1.81		
7/29/2020								<0.1015	<0.1015
4/5/2021	0.2								0.0314 (J)
4/6/2021								0.0327 (J)	
4/7/2021				0.885		2.4	1.9		
4/12/2021		0.0342 (J)	<0.1015						
4/13/2021				<0.1015					
9/21/2021		<0.1015	<0.1015	<0.1015				<0.1015	<0.1015
9/27/2021	0.149				0.721	2.03	1.52		
4/19/2022		<0.1015	<0.1015	<0.1015					
5/2/2022	0.109							0.0313 (J)	<0.1015
5/3/2022					0.562	1.81	1.3		
8/29/2022		<0.1015	<0.1015	<0.1015					
8/30/2022	0.112				0.562	1.72	1.26		
8/31/2022								<0.1015	<0.1015
1/25/2023							1.44	<0.1015	<0.1015

Time Series

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.1015	<0.1015	<0.1015					
2/6/2023					0.412	1.62			
2/7/2023	0.0979 (J)								
7/18/2023				<0.1015					<0.1015
7/19/2023		<0.1015	<0.1015					<0.1015	
7/25/2023	0.0943 (J)								
7/26/2023						1.41	1.16		
8/1/2023					0.464				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.000203			
3/29/2016							<0.000203		0.000357 (J)
3/30/2016	<0.000203	<0.000203	<0.000203	<0.000203					
5/17/2016	<0.000203				<0.000203		<0.000203		0.000216 (J)
5/18/2016		<0.000203	<0.000203	<0.000203					
5/19/2016						<0.000203			
7/11/2016					<0.000203	<0.000203			
7/13/2016	<0.000203	<0.000203	<0.000203						
7/14/2016				<0.000203			<0.000203		0.000277 (J)
7/18/2016									
8/22/2016						<0.000203			
9/12/2016			<0.000203	<0.000203					
9/13/2016	<0.000203	<0.000203			<0.000203		<0.000203		0.000203 (J)
9/14/2016						<0.000203			
11/14/2016		<0.000203	<0.000203	<0.000203			<0.000203		
11/15/2016	<0.000203				<0.000203	<0.000203			
11/16/2016									0.00027 (J)
1/3/2017						<0.000203			
2/27/2017					<0.000203	<0.000203			
2/28/2017	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203		0.000351 (J)
5/22/2017	<0.000203	<0.000203					<0.000203		
5/24/2017			<0.000203	<0.000203	<0.000203		<0.000203		0.000339 (J)
6/19/2017	<0.000203	<0.000203					<0.000203		0.000318 (J)
6/20/2017						<0.000203			
6/21/2017			<0.000203	<0.000203	<0.000203				
1/9/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.001
1/10/2018	<0.000203								
4/16/2018	<0.000203	<0.000203	<0.000203						
4/19/2018				<0.000203	<0.000203	<0.000203	<0.000203		0.000415 (J)
10/1/2018							<0.000203		0.000491 (J)
10/2/2018	<0.000203								
10/4/2018		<0.000203	<0.000203						
10/5/2018				<0.000203	<0.000203	<0.000203			
12/17/2018									
2/25/2019								<0.000203	
2/27/2019									
4/3/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		0.00051 (J)
5/7/2019						<0.000203			
9/16/2019	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203	
9/17/2019				<0.000203	<0.000203				<0.001
9/18/2019						<0.000203			
2/17/2020	<0.000203	<0.000203							
2/18/2020			<0.000203						
2/19/2020				<0.000203	<0.000203				
2/25/2020						<0.000203	<0.000203	<0.000203	
2/26/2020									<0.001
7/22/2020	<0.000203	<0.000203							
7/23/2020					<0.000203				
7/27/2020			<0.000203	<0.000203					
7/28/2020						<0.000203	<0.000203	<0.000203	
7/29/2020									<0.001
4/5/2021	<0.000203	<0.000203	<0.000203				9.99E-05 (J)	8.25E-05 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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				<0.000203	<0.000203	<0.000203			0.000391
9/21/2021	<0.000203	<0.000203							
9/22/2021			<0.000203	<0.000203	<0.000203				
9/28/2021						<0.000203	<0.000203	8E-05 (J)	
9/29/2021									0.00034
4/20/2022									0.00048
4/26/2022									
4/27/2022					<0.000203		8E-05 (J)	0.00012 (J)	
5/2/2022	<0.000203	<0.000203		<0.000203		<0.000203			
5/3/2022			<0.000203						
8/30/2022							<0.000203	8E-05 (J)	0.000271
8/31/2022	<0.000203					<0.000203			
9/6/2022		<0.000203	<0.000203		<0.000203				
9/7/2022				<0.000203					
1/24/2023						<0.000203		<0.000203	
1/25/2023		<0.000203							
1/30/2023							<0.000203		0.000261
1/31/2023					<0.000203				
2/1/2023				<0.000203					
2/6/2023	<0.000203		<0.000203						
7/18/2023	<0.000203		<0.000203						
7/19/2023				<0.000203			<0.000203	<0.000203	
7/24/2023									
7/25/2023									0.000347
7/26/2023					<0.000203				
7/31/2023		<0.000203							
8/1/2023						<0.000203			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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			<0.000203
3/30/2016			
5/17/2016			<0.000203
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.000203
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.000203
11/14/2016			<0.000203
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.000203
5/22/2017			
5/24/2017			<0.000203
6/19/2017			<0.000203
6/20/2017			
6/21/2017			
1/9/2018			<0.000203
1/10/2018			
4/16/2018			
4/19/2018			<0.000203
10/1/2018			<0.000203
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.001		
2/25/2019			
2/27/2019		0.000302 (J)	
4/3/2019			<0.000203
5/7/2019			
9/16/2019			
9/17/2019		<0.001	
9/18/2019	<0.001		<0.000203
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.000203
2/26/2020	<0.001	<0.001	
7/22/2020			<0.000203
7/23/2020	<0.001	<0.001	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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	<0.000203
9/21/2021			
9/22/2021			
9/28/2021			<0.000203
9/29/2021	0.0001 (J)	0.00017 (J)	
4/20/2022	0.00017 (J)		
4/26/2022		0.00031	<0.000203
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			<0.000203
8/31/2022	7.9E-05 (J)	0.00016 (J)	
9/6/2022			
9/7/2022			
1/24/2023	9.5E-05 (J)		<0.000203
1/25/2023		0.000166 (J)	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	9.9E-05 (J)	0.00018 (J)	
7/25/2023			<0.000203
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.000203	<0.001							
3/29/2016			<0.0002						
5/18/2016	<0.000203	<0.001	<0.0002						
7/11/2016		<0.001							
7/13/2016	<0.000203		<0.0002			<0.000203			
7/14/2016							<0.000203		
8/22/2016						<0.000203	<0.000203		
9/13/2016	<0.000203					<0.000203	<0.000203		
9/14/2016		<0.001	<0.0002						
11/14/2016			<0.0002						
11/15/2016						<0.000203	<0.000203		
11/16/2016	<0.000203	<0.001							
1/3/2017						<0.000203	<0.000203		
2/27/2017	<0.000203								
2/28/2017			<0.0002						
3/1/2017		<0.001				<0.000203	<0.000203		
5/22/2017	<0.000203								
5/23/2017		<0.001				<0.000203	<0.000203		
5/24/2017			<0.0002						
6/19/2017		<0.001	<0.0002						
6/20/2017						<0.000203	<0.000203		
6/21/2017	<0.000203								
1/9/2018			<0.0002					<0.000203	
1/10/2018	<0.000203	<0.001				<0.000203			
4/17/2018						<0.000203	<0.000203		
4/19/2018	<0.000203	<0.001	<0.0002						
10/1/2018			<0.0002						
10/2/2018	<0.000203								
10/3/2018		<0.001							
10/4/2018						<0.000203	<0.000203		
12/5/2018								<0.000203	<0.000203
12/6/2018									
12/13/2018				<0.000203					
2/26/2019									
2/27/2019					<0.000203				
4/1/2019	<0.000203	<0.001							
4/2/2019						<0.000203	<0.000203		
4/3/2019			<0.0002						
9/16/2019									
9/17/2019									<0.000203
9/18/2019	<0.000203	<0.001	<0.0002	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
2/18/2020	<0.000203								
2/19/2020								<0.000203	<0.000203
2/25/2020			<0.0002	<0.000203	<0.000203				
2/26/2020						<0.000203	<0.000203		
7/21/2020								<0.000203	<0.000203
7/22/2020			<0.0002	<0.000203	<0.000203				
7/27/2020	<0.000203								
7/28/2020						<0.000203	<0.000203		
7/29/2020									
4/5/2021	<0.000203								
4/6/2021								<0.000203	<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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						<0.000203	<0.000203		
4/12/2021			0.000123 (J)	<0.000203	<0.000203				
9/21/2021								<0.000203	<0.000203
9/22/2021	<0.000203								
9/27/2021						<0.000203	<0.000203		
9/28/2021			8E-05 (J)	<0.000203	<0.000203				
4/19/2022	<0.000203				9E-05 (J)				
4/20/2022			0.00013 (J)	<0.000203				<0.000203	<0.000203
4/27/2022									
5/2/2022									
5/3/2022						<0.000203	<0.000203		
8/29/2022					<0.000203				
8/30/2022	<0.000203		0.000104 (J)	<0.000203		<0.000203	<0.000203		
8/31/2022									
9/6/2022									
9/7/2022								<0.000203	<0.000203
1/24/2023			<0.0002	<0.000203	<0.000203				
1/25/2023	<0.000203								
1/30/2023									
1/31/2023								<0.000203	<0.000203
2/6/2023						<0.000203	<0.000203		
2/7/2023									
7/18/2023	<0.000203								
7/19/2023									
7/25/2023			8.2E-05 (J)	<0.000203	<0.000203			<0.000203	<0.000203
7/26/2023						<0.000203			
8/1/2023							<0.000203		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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		<0.000203	
12/6/2018	<0.000203		
12/13/2018			
2/26/2019			<0.000203
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.000203
9/17/2019			
9/18/2019	<0.000203	<0.000203	
2/18/2020			
2/19/2020	<0.000203		
2/25/2020		<0.000203	<0.000203
2/26/2020			
7/21/2020		<0.000203	
7/22/2020	<0.000203		
7/27/2020			
7/28/2020			
7/29/2020			<0.000203
4/5/2021			<0.000203
4/6/2021		<0.000203	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.000203		
4/12/2021			
9/21/2021		<0.000203	
9/22/2021	<0.000203		
9/27/2021			
9/28/2021			<0.000203
4/19/2022			
4/20/2022	<0.000203		
4/27/2022			<0.000203
5/2/2022		<0.000203	
5/3/2022			
8/29/2022	<0.000203		
8/30/2022			
8/31/2022			<0.000203
9/6/2022		<0.000203	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.000203
1/31/2023			
2/6/2023		<0.000203	
2/7/2023	<0.000203		
7/18/2023			
7/19/2023			<0.000203
7/25/2023	<0.000203	<0.000203	
7/26/2023			
8/1/2023			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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		<0.000203							
5/17/2016		<0.000203							
7/11/2016		<0.000203							
9/14/2016		<0.000203							
11/16/2016		<0.000203							
3/1/2017		<0.000203							
5/23/2017		<0.000203							
6/19/2017		<0.000203							
1/10/2018		<0.000203							
4/19/2018		<0.000203							
10/3/2018		<0.000203							
2/26/2019	<0.000203								
4/2/2019		<0.000203							
9/17/2019	<0.000203	<0.000203							
9/26/2019	<0.000203								
10/22/2019			<0.000203						
2/19/2020		<0.000203	<0.000203				<0.000203		
2/25/2020	<0.000203					<0.000203			
2/26/2020					<0.000203				
4/29/2020				<0.000203				<0.000203	<0.000203
7/20/2020					<0.000203				<0.000203
7/21/2020						<0.000203	<0.000203	<0.000203	
7/23/2020			<0.000203						
7/27/2020		<0.000203		<0.000203					
7/29/2020	<0.000203								
3/30/2021					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/5/2021	<0.000203	<0.000203		<0.000203					
4/6/2021			<0.000203						
4/12/2021									
9/21/2021									
9/22/2021						<0.000203			<0.000203
9/27/2021		<0.000203			<0.000203				
9/28/2021	0.00015 (J)								
9/29/2021			<0.000203	<0.000203			<0.000203	<0.000203	
4/19/2022									
4/26/2022	0.00013 (J)				<0.000203	<0.000203			<0.000203
4/27/2022				<0.000203			<0.000203	<0.000203	
5/2/2022			<0.000203						
5/3/2022		<0.000203							
8/29/2022									
8/30/2022		<0.000203							
8/31/2022	0.000134 (J)		<0.000203	<0.000203					
9/6/2022					<0.000203	<0.000203			<0.000203
9/7/2022							<0.000203	<0.000203	
1/24/2023	0.000123 (J)			<0.000203					
1/25/2023						<0.000203			<0.000203
1/31/2023			<0.000203				<0.000203		
2/1/2023									
2/7/2023		<0.000203			<0.000203			<0.000203	
7/19/2023	<0.000203		<0.000203	<0.000203					
7/24/2023						<0.000203			<0.000203
7/26/2023					<0.000203				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		<0.000203							
8/1/2023							<0.000203	<0.000203	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.000203		
7/20/2020	<0.000203		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.000203		
4/5/2021			
4/6/2021			
4/12/2021		<0.000203	<0.000203
9/21/2021		<0.000203	<0.000203
9/22/2021			
9/27/2021	<0.000203		
9/28/2021			
9/29/2021			
4/19/2022		<0.000203	<0.000203
4/26/2022	<0.000203		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.000203	<0.000203
8/30/2022			
8/31/2022			
9/6/2022	<0.000203		
9/7/2022			
1/24/2023	<0.000203		
1/25/2023			
1/31/2023			
2/1/2023		<0.000203	
2/7/2023			<0.000203
7/19/2023		<0.000203	<0.000203
7/24/2023			
7/26/2023	<0.000203		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.000203	
3/30/2016	<0.000203				<0.000203	<0.000203	<0.000203		
4/4/2016									<0.000203
5/17/2016	<0.000203								
5/19/2016						<0.000203	<0.000203		
5/23/2016					<0.000203			<0.000203	<0.000203
7/11/2016	<0.000203								
7/12/2016								<0.000203	<0.000203
7/13/2016						<0.000203	<0.000203		
7/14/2016					<0.000203				
9/13/2016					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/14/2016	<0.000203								
11/15/2016					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/16/2016	<0.000203								
2/28/2017	<0.000203							<0.000203	<0.000203
3/1/2017					<0.000203	<0.000203	<0.000203		
5/23/2017					<0.000203	<0.000203	<0.000203		
5/24/2017	<0.000203							<0.000203	<0.000203
6/20/2017					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/21/2017	<0.000203								
1/9/2018					<0.000203				
1/10/2018	<0.000203					<0.000203	<0.000203	<0.000203	<0.000203
4/17/2018					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/19/2018	<0.000203								
10/1/2018					<0.000203			<0.000203	<0.000203
10/3/2018	<0.000203								
10/4/2018						<0.000203	<0.000203		
4/1/2019								<0.000203	<0.000203
4/2/2019	<0.000203				<0.000203	<0.000203	<0.000203		
9/17/2019	<0.000203							<0.000203	<0.000203
9/18/2019					<0.000203	<0.000203	<0.000203		
2/17/2020									<0.000203
2/18/2020	<0.000203								
2/25/2020								<0.000203	
2/26/2020					<0.000203	<0.000203	<0.000203		
7/27/2020	<0.000203								
7/28/2020					<0.000203	<0.000203	<0.000203		
7/29/2020								<0.000203	<0.000203
4/5/2021	<0.000203								<0.000203
4/6/2021								<0.000203	
4/7/2021					<0.000203	<0.000203	<0.000203		
4/12/2021		<0.000203	<0.000203						
4/13/2021				0.000855					
9/21/2021		<0.000203	<0.000203	0.00018 (J)				<0.000203	<0.000203
9/27/2021	<0.000203				<0.000203	<0.000203	<0.000203		
4/19/2022		<0.000203	<0.000203	0.00019 (J)					
5/2/2022	<0.000203							<0.000203	<0.000203
5/3/2022					<0.000203	<0.000203	<0.000203		
8/29/2022		<0.000203	<0.000203	<0.000203					
8/30/2022	<0.000203				<0.000203	<0.000203	<0.000203		
8/31/2022								<0.000203	<0.000203
1/25/2023							<0.000203	<0.000203	<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.000203	<0.000203	9.5E-05 (J)					
2/6/2023					<0.000203	<0.000203			
2/7/2023	<0.000203								
7/18/2023				7.4E-05 (J)					<0.000203
7/19/2023		<0.000203	<0.000203					<0.000203	
7/25/2023	<0.000203								
7/26/2023						<0.000203	<0.000203		
8/1/2023					<0.000203				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							111	65.5	300
8/31/2022	36.400002					112			
9/6/2022		46.700001	76.800003		102				
9/7/2022				52.700001					
1/24/2023						98.300003		52	
1/25/2023		43							
1/30/2023							131		374
1/31/2023					66.599998				
2/1/2023				44.799999					
2/6/2023	45.400002		76.300003						
7/18/2023	38		69.300003						
7/19/2023				45.599998			177	83.300003	
7/24/2023									
7/25/2023									379
7/26/2023					53.799999				
7/31/2023		44.599998							
8/1/2023						95.199997			

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			155
8/31/2022	147	91.599998	
9/6/2022			
9/7/2022			
1/24/2023	198		138
1/25/2023		121	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	189	132	
7/25/2023			128
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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		
8/29/2022					171				
8/30/2022	45.799999		214	166		85.599998	83.699997		
8/31/2022									
9/6/2022									
9/7/2022								33.200001	58.900002
1/24/2023			189	146	127				
1/25/2023	43								
1/30/2023									
1/31/2023								36.299999	48
2/6/2023						83.300003	69.400002		
2/7/2023									
7/18/2023	52.900002								
7/19/2023									
7/25/2023			165	130	122			37.799999	40.099998
7/26/2023						70.099998			
8/1/2023							63.200001		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	77.300003		
8/30/2022			
8/31/2022			45.200001
9/6/2022		28.6	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			44.599998
1/31/2023			
2/6/2023		26.200001	
2/7/2023	71.800003		
7/18/2023			
7/19/2023			52.5
7/25/2023	56.099998	28.1	
7/26/2023			
8/1/2023			

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		29.6							
7/11/2016		30							
9/14/2016		30.6							
11/16/2016		30.4							
3/1/2017		<0.5 (o)							
5/23/2017		30.1							
6/19/2017		29.9							
8/15/2017		28.1							
4/19/2018		31.2							
10/3/2018		32.3							
2/26/2019	45								
4/2/2019		31.6							
9/17/2019	48.5	31.7							
9/26/2019	45.4								
10/22/2019			89.1						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		30.6							
8/31/2022	56.5		91.900002	50.799999					
9/6/2022					67.099998	53.5			26.299999
9/7/2022							136	38.400002	
1/24/2023	52.799999			48.900002					
1/25/2023						49.599998			24.4
1/31/2023			85.599998				129		
2/1/2023									
2/7/2023		29			54.900002			34.599998	
7/19/2023	62.700001		95.900002	52.200001					
7/24/2023						50.299999			23.200001
7/26/2023					48.799999				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		32.700001							
8/1/2023						126		34.200001	

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	44.9		
7/20/2020	40.6		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	40.1		
4/5/2021			
4/6/2021			
4/12/2021		23.2	35
9/21/2021		22.3	36.1
9/22/2021			
9/27/2021	40.1		
9/28/2021			
9/29/2021			
4/19/2022		23.3	36.4
4/26/2022	49.4		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		23.1	36.400002
8/30/2022			
8/31/2022			
9/6/2022	39.799999		
9/7/2022			
1/24/2023	37.099998		
1/25/2023			
1/31/2023			
2/1/2023		21.200001	
2/7/2023			35.200001
7/19/2023		20.4	35.299999
7/24/2023			
7/26/2023	39.5		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								58.2	
3/30/2016	53.6				68.3	75.7	96.4		
4/4/2016									32.3
5/17/2016	50.5								
5/19/2016						69.7	84.5		
5/23/2016					63.1			52.1	31.3
7/11/2016	56.5								
7/12/2016								53.6	31.6
7/13/2016						62.7	84		
7/14/2016					67.7				
9/13/2016					67.8	48.3	58.2	53	31.2
9/14/2016	58								
11/15/2016					68.4	51.8	87.9	51.5	31.5
11/16/2016	61.8								
2/28/2017	56.8							51.4	29.7
3/1/2017					71.8	58.4	96.8		
5/23/2017					70.6	54.8	88		
5/24/2017	55.5							50.8	30.4
6/20/2017					73.8	67.9	87.5	49.8	30.8
6/21/2017	51								
8/15/2017	48.9				65.7	52.5	89.4	51.6	
8/16/2017									30.5
4/17/2018					90	77.1	100	52.2	32.9
4/19/2018	56.5								
10/1/2018					79.6			50.8	32.4
10/3/2018	73.5								
10/4/2018						61.2	106		
4/1/2019								50.5	32.3
4/2/2019	56.9				69.8	80.1	115		
9/17/2019	69.3							54.5	32.7
9/18/2019					79.9	83.9	99.1		
2/17/2020									33.2
2/18/2020	55.8								
2/25/2020								54.7	
2/26/2020					46.8	83.1	95.8		
7/27/2020	57								
7/28/2020					67.8	82.5	84.9		
7/29/2020								49.4	32.4
4/5/2021	52.2								31.7
4/6/2021								51.1	
4/7/2021					53.3	75.5	86.8		
4/12/2021		22.9	26.6						
4/13/2021				11.7					
9/21/2021		21.6	31.7	15.4				51.4	31.5
9/27/2021	54.4				53.1	69.2	76.2		
4/19/2022		21.6	29.4	11					
5/2/2022	56.8							52.4	30.9
5/3/2022					56.6	68.8	69		
8/29/2022		21.299999	30.799999	13.3					
8/30/2022	67.400002				56.599998	84.599998	81.199997		
8/31/2022								64	29.9
1/25/2023							71.400002	53.099998	29.1

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		20	27.200001	11.7					
2/6/2023					56.700001	81.5			
2/7/2023	59.700001								
7/18/2023				12.2					30.200001
7/19/2023		21.700001	28.200001					60.099998	
7/25/2023	47.5								
7/26/2023						61.799999	59.099998		
8/1/2023					48.400002				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View

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						
8/30/2022							56.599998	31.799999	272
8/31/2022	2.43					82			
9/6/2022		7.27	18.4		5.29				
9/7/2022				4.55					
1/24/2023						91.199997		50.700001	
1/25/2023		7.78							
1/30/2023							122		436
1/31/2023					5.23				
2/1/2023				4.54					
2/6/2023	2.95		19.700001						
7/18/2023	2.72		18.700001						
7/19/2023				4.19			180	92	
7/24/2023									
7/25/2023									532
7/26/2023					4.43				
7/31/2023		7.77							
8/1/2023						86.099998			

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			13
8/31/2022	84.599998	70.199997	
9/6/2022			
9/7/2022			
1/24/2023	186		14.1
1/25/2023		160	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	215	209	
7/25/2023			13.3
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Date	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		
8/29/2022					19.299999				
8/30/2022	13		19	16.799999		28.1	15.3		
8/31/2022									
9/6/2022									
9/7/2022								52.700001	18.9
1/24/2023			19.700001	17.299999	19.9				
1/25/2023	14.1								
1/30/2023									
1/31/2023								51	16.700001
2/6/2023						25.700001	13.7		
2/7/2023									
7/18/2023	14.1								
7/19/2023									
7/25/2023			18.9	16.9	19.700001			41.599998	16.9
7/26/2023						21.799999			
8/1/2023							13.2		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	19.799999		
8/30/2022			
8/31/2022			20.299999
9/6/2022		13.6	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			24.700001
1/31/2023			
2/6/2023		12.9	
2/7/2023	19.700001		
7/18/2023			
7/19/2023			34.200001
7/25/2023	14.6	12.8	
7/26/2023			
8/1/2023			

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		1.9							
7/11/2016		1.93							
9/14/2016		1.77							
11/16/2016		1.98							
3/1/2017		2.3							
5/23/2017		2.2							
6/19/2017		1.7 (J)							
8/15/2017		2.1							
4/19/2018		1.7 (J)							
10/3/2018		1.7 (J)							
2/26/2019	16.4								
4/2/2019		1.65							
9/17/2019	20.5	1.93							
9/26/2019	21.5								
10/22/2019			32.3						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		1.64							
8/31/2022	32.799999		28.9	17.9					
9/6/2022					30.299999	23.9			123
9/7/2022							18.5	7.9	
1/24/2023	38.900002			17.5					
1/25/2023						24.200001			109
1/31/2023			33.5				17.6		
2/1/2023									
2/7/2023		2.32			26			7.65	
7/19/2023	46		32.200001	16.6					
7/24/2023						19.299999			88.800003
7/26/2023					26				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		2.96							
8/1/2023							16.9	7.56	

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	12.9		
7/20/2020	12.4		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	13.1		
4/5/2021			
4/6/2021			
4/12/2021		5.88	2.91
9/21/2021		6.09	2.94
9/22/2021			
9/27/2021	13.6		
9/28/2021			
9/29/2021			
4/19/2022		5.24	2.22
4/26/2022	14.1		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		4.26	2.06
8/30/2022			
8/31/2022			
9/6/2022	14.3		
9/7/2022			
1/24/2023	14.7		
1/25/2023			
1/31/2023			
2/1/2023		4.54	
2/7/2023			2.46
7/19/2023		4.37	2.14
7/24/2023			
7/26/2023	13.2		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								5.14	
3/30/2016	12.9				31.9	30.8	16.9		
4/4/2016									5.89
5/17/2016	12								
5/19/2016						28.7	14.9		
5/23/2016					29.4			5.03	5.2
7/11/2016	20.3								
7/12/2016								4.66	5.71
7/13/2016						24.8	12.6		
7/14/2016					29.5				
9/13/2016					30.8	21.7	8.09	3.98	5.88
9/14/2016	27.3								
11/15/2016					30.7	25.9	14.3	3.71	6.04
11/16/2016	37.1								
2/28/2017	27							5.2	8.6
3/1/2017					40	29	18		
5/23/2017					40	28	19		
5/24/2017	28							5.4	9.3
6/20/2017					44	40	18	5	7.8
6/21/2017	20								
8/15/2017	17				36	32	18	4.6	
8/16/2017									7.6
4/17/2018					63	52	16	3.6	7.5
4/19/2018	21								
10/1/2018					49			3.9	8.9
10/3/2018	21								
10/4/2018						50	25		
4/1/2019								3.9	8.42
4/2/2019	18.3				39.9	66	15.7		
9/17/2019	37.5							3.96	8.59
9/18/2019					42.8	65.3	29.5		
2/17/2020									8.74
2/18/2020	19.6								
2/25/2020								3.81	
2/26/2020					17.5	69.7	28		
7/27/2020	20.2								
7/28/2020					44.2	64.2	22.3		
7/29/2020								3.77	8.93
4/5/2021	12.8								9.25
4/6/2021								3.9	
4/7/2021					18.8	45.5	22.4		
4/12/2021		4.13	3.05						
4/13/2021				4.18					
9/21/2021		2.19	2.78	3.99				3.8	9.17
9/27/2021	11				14.6	45.3	16.5		
4/19/2022		2.03	2.71	3.8					
5/2/2022	8.75							3.33	8.5
5/3/2022					12.8	26.9	12.6		
8/29/2022		1.74	2.15	3.29					
8/30/2022	8.56				12.6	23.9	12		
8/31/2022								2.97	8.1
1/25/2023							14.5	3.58	9.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		2.05	2.61	3.75					
2/6/2023					9.05	21.200001			
2/7/2023	9.01								
7/18/2023				3.57					9.03
7/19/2023		2	2.35					3.51	
7/25/2023	8.49								
7/26/2023						14.9	11.4		
8/1/2023					10.1				

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							<0.001015		<0.00102
3/30/2016	<0.01	<0.01	<0.001015	<0.00102					
5/17/2016	<0.01				<0.001015		<0.001015		<0.00102
5/18/2016		<0.01	<0.001015	<0.00102					
5/19/2016						<0.00102			
7/11/2016					<0.001015	<0.00102			
7/13/2016	<0.01	<0.01	<0.001015						
7/14/2016				<0.00102			<0.001015		<0.00102
7/18/2016									
8/22/2016						<0.00102			
9/12/2016			<0.001015	<0.00102					
9/13/2016	<0.01	<0.01			<0.001015		<0.001015		<0.00102
9/14/2016						<0.00102			
11/14/2016		<0.01	<0.001015	<0.00102			<0.001015		
11/15/2016	<0.01				<0.001015	<0.00102			
11/16/2016									<0.00102
1/3/2017						<0.00102			
2/27/2017					<0.001015	<0.00102			
2/28/2017	<0.01	<0.01	<0.001015	<0.00102			<0.001015		<0.00102
5/22/2017	<0.01	<0.01				<0.00102			
5/24/2017			<0.001015	<0.00102	<0.001015		<0.001015		<0.00102
6/19/2017	<0.01	<0.01					<0.001015		<0.00102
6/20/2017						<0.00102			
6/21/2017			<0.001015	<0.00102	<0.001015				
1/9/2018		<0.01	<0.001015	<0.00102	<0.001015	<0.00102	<0.001015		<0.00102
1/10/2018	<0.01								
4/16/2018	<0.01	<0.01	<0.001015						
4/19/2018				<0.00102	<0.001015	<0.00102	<0.001015		<0.00102
10/1/2018							<0.001015		<0.00102
10/2/2018	<0.01								
10/4/2018		<0.01	<0.001015						
10/5/2018				<0.00102	<0.001015	<0.00102			
12/17/2018									
2/25/2019								<0.001015	
2/27/2019									
4/3/2019	<0.01	<0.01	<0.001015	<0.00102	<0.001015	<0.00102	<0.001015		<0.00102
5/7/2019						<0.00102			
9/16/2019	<0.01	<0.01	<0.001015				<0.001015	<0.001015	
9/17/2019				<0.00102	<0.001015				<0.00102
9/18/2019						<0.00102			
2/17/2020	<0.01	<0.01							
2/18/2020			<0.001015						
2/19/2020				<0.00102	<0.001015				
2/25/2020						<0.00102	<0.001015	<0.001015	
2/26/2020									<0.00102
7/22/2020	<0.01	<0.01							
7/23/2020					<0.001015				
7/27/2020			<0.001015	<0.00102					
7/28/2020						<0.00102	<0.001015	<0.001015	
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 10/4/2023 3:54 PM View: Constituents View
 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			<0.001015						
8/30/2022							<0.001015	<0.001015	<0.00102
8/31/2022	0.000378 (J)					0.000323 (J)			
9/6/2022		0.000929 (J)	0.000347 (J)		0.000289 (J)				
9/7/2022				0.000286 (J)					
1/24/2023						<0.00102		0.000392 (J)	
1/25/2023		0.00101 (J)							
1/30/2023							0.000272 (J)		<0.00102
1/31/2023					0.000209 (J)				
2/1/2023				<0.00102					
2/6/2023	0.0003 (J)		0.000279 (J)						
7/18/2023	0.000335 (J)		<0.001015						
7/19/2023				0.000228 (J)			0.00031 (J)	0.000459 (J)	
7/24/2023									
7/25/2023									0.000225 (J)
7/26/2023					<0.001015				
7/31/2023		0.000843 (J)							
8/1/2023						0.000237 (J)			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			<0.00102
8/31/2022	0.000336 (J)	0.000343 (J)	
9/6/2022			
9/7/2022			
1/24/2023	<0.00102		<0.00102
1/25/2023		<0.00102	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	0.000674 (J)	0.000335 (J)	
7/25/2023			0.000351 (J)
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.01							
3/29/2016			<0.00102						
5/18/2016	<0.00102	<0.01	<0.00102						
7/11/2016		<0.01							
7/13/2016	<0.00102		<0.00102			<0.001015			
7/14/2016							<0.001015		
8/22/2016						<0.001015	<0.001015		
9/13/2016	<0.00102					<0.001015	<0.001015		
9/14/2016		<0.01	<0.00102						
11/14/2016			<0.00102						
11/15/2016						<0.001015	<0.001015		
11/16/2016	<0.00102	<0.01							
1/3/2017						<0.001015	<0.001015		
2/27/2017	<0.00102								
2/28/2017			<0.00102						
3/1/2017		<0.01				<0.001015	<0.001015		
5/22/2017	<0.00102								
5/23/2017		<0.01				<0.001015	<0.001015		
5/24/2017			<0.00102						
6/19/2017		<0.01	<0.00102						
6/20/2017						<0.001015	<0.001015		
6/21/2017	<0.00102								
1/9/2018			<0.00102					<0.001015	
1/10/2018	<0.00102	<0.01				<0.001015			
4/17/2018						<0.001015	<0.001015		
4/19/2018	<0.00102	<0.01	<0.00102						
10/1/2018			<0.00102						
10/2/2018	<0.00102								
10/3/2018		<0.01							
10/4/2018						<0.001015	<0.001015		
12/5/2018								<0.001015	<0.001015
12/6/2018									
12/13/2018				<0.00102					
2/26/2019									
2/27/2019					<0.01				
4/1/2019	<0.00102	<0.01							
4/2/2019						<0.001015	<0.001015		
4/3/2019			<0.00102						
9/16/2019									
9/17/2019									<0.001015
9/18/2019	<0.00102	<0.01	<0.00102	<0.00102	<0.01	<0.001015	<0.001015	<0.001015	
2/18/2020	<0.00102								
2/19/2020								<0.001015	<0.001015
2/25/2020			<0.00102	<0.00102	<0.01				
2/26/2020						<0.001015	<0.001015		
7/21/2020								<0.001015	<0.001015
7/22/2020			<0.00102	<0.00102	<0.01				
7/27/2020	<0.00102								
7/28/2020						<0.001015	<0.001015		
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 10/4/2023 3:54 PM View: Constituents View
 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						<0.001015	0.00026 (J)		
8/29/2022					0.00173				
8/30/2022	<0.00102		<0.00102	<0.00102		<0.001015	<0.001015		
8/31/2022									
9/6/2022									
9/7/2022								<0.001015	0.000268 (J)
1/24/2023			<0.00102	<0.00102	0.000234 (J)				
1/25/2023	<0.00102								
1/30/2023									
1/31/2023								0.000231 (J)	0.000224 (J)
2/6/2023						<0.001015	0.000237 (J)		
2/7/2023									
7/18/2023	0.0012								
7/19/2023									
7/25/2023			0.000418 (J)	0.000247 (J)	0.000305 (J)			<0.001015	<0.001015
7/26/2023						<0.001015			
8/1/2023							0.000247 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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		<0.01	
12/6/2018	<0.01		
12/13/2018			
2/26/2019			<0.01
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.01
9/17/2019			
9/18/2019	<0.01	<0.01	
2/18/2020			
2/19/2020	<0.01		
2/25/2020		<0.01	<0.01
2/26/2020			
7/21/2020		<0.01	
7/22/2020	<0.01		
7/27/2020			
7/28/2020			
7/29/2020			<0.01
4/5/2021			0.000648 (J)
4/6/2021		0.000362 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	0.000296 (J)		
8/30/2022			
8/31/2022			0.000281 (J)
9/6/2022		0.000321 (J)	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.000278 (J)
1/31/2023			
2/6/2023		0.000248 (J)	
2/7/2023	0.000303 (J)		
7/18/2023			
7/19/2023			0.000218 (J)
7/25/2023	0.000446 (J)	0.0004 (J)	
7/26/2023			
8/1/2023			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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		<0.01							
5/17/2016		<0.01							
7/11/2016		<0.01							
9/14/2016		<0.01							
11/16/2016		<0.01							
3/1/2017		<0.01							
5/23/2017		<0.01							
6/19/2017		<0.01							
1/10/2018		<0.01							
4/19/2018		<0.01							
10/3/2018		<0.01							
2/26/2019	<0.00102								
4/2/2019		<0.01							
9/17/2019	<0.00102	<0.01							
9/26/2019	<0.00102								
10/22/2019			<0.00102						
2/19/2020		<0.01	<0.00102				<0.00102		
2/25/2020	<0.00102					<0.01			
2/26/2020					<0.00102				
4/29/2020				<0.001015				<0.001015	<0.001015
7/20/2020					<0.00102				<0.001015
7/21/2020						<0.01	<0.00102	<0.001015	
7/23/2020			<0.00102						
7/27/2020		<0.01		<0.001015					
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)						
4/12/2021									
9/21/2021									
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)	
4/19/2022									
4/26/2022	0.00024 (J)				0.0002 (J)	0.00032 (J)			<0.001015
4/27/2022				<0.001015			<0.00102	<0.001015	
5/2/2022			0.00021 (J)						
5/3/2022		0.00044 (J)							
8/29/2022									
8/30/2022		0.000458 (J)							
8/31/2022	0.000363 (J)		0.000285 (J)	0.000297 (J)					
9/6/2022					0.000276 (J)	0.000279 (J)			<0.001015
9/7/2022							<0.00102	<0.001015	
1/24/2023	<0.00102			<0.001015					
1/25/2023						0.000256 (J)			<0.001015
1/31/2023			<0.00102				<0.00102		
2/1/2023									
2/7/2023		0.000462 (J)			<0.00102			0.000235 (J)	
7/19/2023	0.000286 (J)		0.000232 (J)	<0.001015					
7/24/2023						0.000305 (J)			<0.001015
7/26/2023					0.000448 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		0.000709 (J)							
8/1/2023							0.000312 (J)	<0.001015	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.001015		
7/20/2020	<0.001015		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.000245 (J)		
4/5/2021			
4/6/2021			
4/12/2021		0.000599 (J)	0.000345 (J)
9/21/2021		0.00079 (J)	0.00033 (J)
9/22/2021			
9/27/2021	0.00038 (J)		
9/28/2021			
9/29/2021			
4/19/2022		0.00066 (J)	0.0003 (J)
4/26/2022	<0.001015		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.000511 (J)	<0.00102
8/30/2022			
8/31/2022			
9/6/2022	0.000253 (J)		
9/7/2022			
1/24/2023	<0.001015		
1/25/2023			
1/31/2023			
2/1/2023		0.00041 (J)	
2/7/2023			<0.00102
7/19/2023		0.000444 (J)	0.000274 (J)
7/24/2023			
7/26/2023	<0.001015		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.00102	
3/30/2016	0.00322 (J)				<0.01	<0.001015	<0.00102		
4/4/2016									<0.001015
5/17/2016	<0.01								
5/19/2016						<0.001015	<0.00102		
5/23/2016					<0.01			<0.00102	<0.001015
7/11/2016	<0.01								
7/12/2016								<0.00102	<0.001015
7/13/2016						<0.001015	<0.00102		
7/14/2016					<0.01				
9/13/2016					<0.01	<0.001015	<0.00102	<0.00102	<0.001015
9/14/2016	<0.01								
11/15/2016					<0.01	<0.001015	<0.00102	<0.00102	<0.001015
11/16/2016	<0.01								
2/28/2017	<0.01							<0.00102	<0.001015
3/1/2017					<0.01	<0.001015	<0.00102		
5/23/2017					<0.01	<0.001015	<0.00102		
5/24/2017	<0.01							<0.00102	<0.001015
6/20/2017					<0.01	<0.001015	<0.00102	<0.00102	<0.001015
6/21/2017	<0.01								
1/9/2018					<0.01				
1/10/2018	<0.01					<0.001015	<0.00102	0.00395 (J)	<0.001015
4/17/2018					<0.01	<0.001015	<0.00102	<0.00102	<0.001015
4/19/2018	<0.01								
10/1/2018					<0.01			<0.00102	<0.001015
10/3/2018	<0.01								
10/4/2018						<0.001015	<0.00102		
4/1/2019								<0.00102	<0.001015
4/2/2019	<0.01				<0.01	<0.001015	<0.00102		
9/17/2019	<0.01							<0.00102	<0.001015
9/18/2019					<0.01	<0.001015	<0.00102		
2/17/2020									<0.001015
2/18/2020	<0.01								
2/25/2020								<0.00102	
2/26/2020					<0.01	<0.001015	<0.00102		
7/27/2020	<0.01								
7/28/2020					<0.01	<0.001015	<0.00102		
7/29/2020								<0.00102	<0.001015
4/5/2021	0.000909 (J)								0.000295 (J)
4/6/2021								0.000333 (J)	
4/7/2021					0.000278 (J)	0.000259 (J)	0.000506 (J)		
4/12/2021		0.000871 (J)	0.000441 (J)						
4/13/2021				0.000307 (J)					
9/21/2021		0.00113	0.00045 (J)	0.0005 (J)				0.00031 (J)	0.00032 (J)
9/27/2021	0.00082 (J)				0.00036 (J)	0.00035 (J)	0.00037 (J)		
4/19/2022		0.00106	0.00048 (J)	0.00048 (J)					
5/2/2022	0.00074 (J)							0.00031 (J)	0.00029 (J)
5/3/2022					0.00033 (J)	0.0003 (J)	0.00035 (J)		
8/29/2022		0.000944 (J)	0.000279 (J)	0.000563 (J)					
8/30/2022	0.00055 (J)				0.000268 (J)	<0.001015	<0.00102		
8/31/2022								0.000367 (J)	0.000286 (J)
1/25/2023							<0.00102	<0.00102	<0.001015

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		0.000818 (J)	0.000327 (J)	0.000724 (J)					
2/6/2023					0.000449 (J)	<0.001015			
2/7/2023	0.000692 (J)								
7/18/2023				0.000564 (J)					<0.001015
7/19/2023		0.000934 (J)	0.000295 (J)					0.000259 (J)	
7/25/2023	0.000835 (J)								
7/26/2023						<0.001015	0.000234 (J)		
8/1/2023					0.000416 (J)				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							<0.005		<0.000203
3/30/2016	<0.000203	<0.000203	<0.005	<0.0002					
5/17/2016	<0.000203				<0.000203		<0.005		<0.000203
5/18/2016		<0.000203	<0.005	<0.0002					
5/19/2016						0.00207 (J)			
7/11/2016					<0.000203	<0.005			
7/13/2016	<0.000203	<0.000203	<0.005						
7/14/2016				<0.0002			<0.005		<0.000203
7/18/2016									
8/22/2016						<0.005			
9/12/2016			<0.005	<0.0002					
9/13/2016	<0.000203	<0.000203			<0.000203		<0.005		<0.000203
9/14/2016						<0.005			
11/14/2016		<0.000203	<0.005	<0.0002			<0.005		
11/15/2016	<0.000203				<0.000203	<0.005			
11/16/2016									<0.000203
1/3/2017						<0.005			
2/27/2017					<0.000203	<0.005			
2/28/2017	<0.000203	<0.000203	<0.005	<0.0002			<0.005		<0.000203
5/22/2017	<0.000203	<0.000203				<0.005			
5/24/2017			<0.005	<0.0002	<0.000203		<0.005		<0.000203
6/19/2017	<0.000203	<0.000203					<0.005		<0.000203
6/20/2017						<0.005			
6/21/2017			<0.005	<0.0002	<0.000203				
1/9/2018		<0.000203	<0.005	<0.0002	<0.000203	<0.005	<0.005		<0.000203
1/10/2018	<0.000203								
4/16/2018	<0.000203	<0.000203	<0.005						
4/19/2018				<0.0002	<0.000203	<0.005	<0.005		<0.000203
10/1/2018							<0.005		<0.000203
10/2/2018	<0.000203								
10/4/2018		<0.000203	<0.005						
10/5/2018				<0.0002	<0.000203	<0.005			
12/17/2018									
2/25/2019								<0.005	
2/27/2019									
4/3/2019	<0.000203	<0.000203	<0.005	<0.0002	<0.000203	<0.005	<0.005		<0.000203
5/7/2019						<0.005			
9/16/2019	<0.000203	<0.000203	<0.005				<0.005	<0.005	
9/17/2019				<0.0002	<0.000203				<0.000203
9/18/2019						<0.005			
2/17/2020	<0.000203	<0.000203							
2/18/2020			<0.005						
2/19/2020				<0.0002	<0.000203				
2/25/2020						<0.005	<0.005	<0.005	
2/26/2020									<0.000203
7/22/2020	<0.000203	<0.000203							
7/23/2020					<0.000203				
7/27/2020			<0.005	<0.0002					
7/28/2020						<0.005	<0.005	<0.005	
7/29/2020									<0.000203
4/5/2021	<0.000203	<0.000203	0.000113 (J)				0.000679	0.000888	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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)	<0.000203	0.000352			<0.000203
9/21/2021	<0.000203	<0.000203							
9/22/2021			0.00016 (J)	<0.0002	<0.000203				
9/28/2021						0.0004	0.00095	0.00087	
9/29/2021									<0.000203
4/20/2022									<0.000203
4/26/2022									
4/27/2022					<0.000203		0.0007	0.00099	
5/2/2022	<0.000203	<0.000203		0.00014 (J)		0.00027			
5/3/2022			0.00022						
8/30/2022							0.000978	0.00108	<0.000203
8/31/2022	<0.000203					0.000193 (J)			
9/6/2022		<0.000203	0.00019 (J)		<0.000203				
9/7/2022				9.4E-05 (J)					
1/24/2023						0.000344		0.00151	
1/25/2023		7.5E-05 (J)							
1/30/2023							0.00119		<0.000203
1/31/2023					<0.000203				
2/1/2023				0.000152 (J)					
2/6/2023	<0.000203		0.000225						
7/18/2023	<0.000203		0.000209						
7/19/2023				0.000144 (J)			0.00159	0.00159	
7/24/2023									
7/25/2023									<0.000203
7/26/2023					<0.000203				
7/31/2023		<0.000203							
8/1/2023						0.000213			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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			<0.005
3/30/2016			
5/17/2016			<0.005
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.005
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.005
11/14/2016			<0.005
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.005
5/22/2017			
5/24/2017			<0.005
6/19/2017			<0.005
6/20/2017			
6/21/2017			
1/9/2018			<0.005
1/10/2018			
4/16/2018			
4/19/2018			<0.005
10/1/2018			<0.005
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	0.00461 (J)		
2/25/2019			
2/27/2019		<0.000203	
4/3/2019			<0.005
5/7/2019			
9/16/2019			
9/17/2019		<0.000203	
9/18/2019	0.00327 (J)		<0.005
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.005
2/26/2020	0.00265 (J)	<0.000203	
7/22/2020			<0.005
7/23/2020	0.00251 (J)	<0.000203	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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	<0.000203	
4/20/2022	0.00247		
4/26/2022		7E-05 (J)	0.0016
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			0.00194
8/31/2022	0.00155	<0.000203	
9/6/2022			
9/7/2022			
1/24/2023	0.00349		0.00238
1/25/2023		8.7E-05 (J)	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	0.00486	0.00015 (J)	
7/25/2023			0.00154
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.005	<0.005							
3/29/2016			<0.000203						
5/18/2016	<0.005	<0.005	<0.000203						
7/11/2016		<0.005							
7/13/2016	<0.005		<0.000203			<0.005			
7/14/2016							<0.005		
8/22/2016						<0.005	<0.005		
9/13/2016	<0.005					<0.005	<0.005		
9/14/2016		<0.005	<0.000203						
11/14/2016			<0.000203						
11/15/2016						<0.005	<0.005		
11/16/2016	<0.005	<0.005							
1/3/2017						<0.005	<0.005		
2/27/2017	<0.005								
2/28/2017			<0.000203						
3/1/2017		<0.005				<0.005	<0.005		
5/22/2017	<0.005								
5/23/2017		<0.005				<0.005	<0.005		
5/24/2017			<0.000203						
6/19/2017		<0.005	<0.000203						
6/20/2017						<0.005	<0.005		
6/21/2017	<0.005								
1/9/2018			<0.000203					<0.005	
1/10/2018	<0.005	<0.005				<0.005			
4/17/2018						<0.005	<0.005		
4/19/2018	<0.005	<0.005	<0.000203						
10/1/2018			<0.000203						
10/2/2018	<0.005								
10/3/2018		<0.005							
10/4/2018						<0.005	<0.005		
12/5/2018								<0.000203	<0.000203
12/6/2018									
12/13/2018				0.00427 (J)					
2/26/2019									
2/27/2019					<0.000203				
4/1/2019	<0.005	<0.005							
4/2/2019						<0.005	<0.005		
4/3/2019			<0.000203						
9/16/2019									
9/17/2019									<0.000203
9/18/2019	<0.005	<0.005	<0.000203	0.00207 (J)	<0.000203	<0.005	<0.005	<0.000203	
2/18/2020	<0.005								
2/19/2020								<0.000203	<0.000203
2/25/2020			<0.000203	<0.005	<0.000203				
2/26/2020						<0.005	<0.005		
7/21/2020								<0.000203	<0.000203
7/22/2020			<0.000203	<0.005	<0.000203				
7/27/2020	<0.005								
7/28/2020						<0.005	<0.005		
7/29/2020									
4/5/2021	9.07E-05 (J)								
4/6/2021								<0.000203	<0.000203

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Date	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			<0.000203	0.000454	<0.000203				
9/21/2021								<0.000203	<0.000203
9/22/2021	0.00011 (J)								
9/27/2021						0.00024	0.00031		
9/28/2021			<0.000203	0.00054	0.00022				
4/19/2022	0.00017 (J)				0.00033				
4/20/2022			<0.000203	0.0005				<0.000203	<0.000203
4/27/2022									
5/2/2022									
5/3/2022						0.00116	0.00015 (J)		
8/29/2022					0.000285				
8/30/2022	0.000137 (J)		<0.000203	0.000548		0.00109	0.000334		
8/31/2022									
9/6/2022									
9/7/2022								<0.000203	<0.000203
1/24/2023			<0.000203	0.000682	0.000255				
1/25/2023	0.000132 (J)								
1/30/2023									
1/31/2023								<0.000203	<0.000203
2/6/2023						0.000721	0.000147 (J)		
2/7/2023									
7/18/2023	0.00037								
7/19/2023									
7/25/2023			<0.000203	0.000707	9.5E-05 (J)			<0.000203	<0.000203
7/26/2023						0.000685			
8/1/2023							8.7E-05 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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		<0.000203	
12/6/2018	<0.000203		
12/13/2018			
2/26/2019			<0.005
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.005
9/17/2019			
9/18/2019	<0.000203	<0.000203	
2/18/2020			
2/19/2020	<0.000203		
2/25/2020		<0.000203	<0.005
2/26/2020			
7/21/2020		<0.000203	
7/22/2020	<0.000203		
7/27/2020			
7/28/2020			
7/29/2020			<0.005
4/5/2021			0.000304
4/6/2021		<0.000203	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.000203		
4/12/2021			
9/21/2021		<0.000203	
9/22/2021	<0.000203		
9/27/2021			
9/28/2021			0.00019 (J)
4/19/2022			
4/20/2022	<0.000203		
4/27/2022			0.00035
5/2/2022		<0.000203	
5/3/2022			
8/29/2022	<0.000203		
8/30/2022			
8/31/2022			0.000205
9/6/2022		<0.000203	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.000319
1/31/2023			
2/6/2023		<0.000203	
2/7/2023	<0.000203		
7/18/2023			
7/19/2023			0.000311
7/25/2023	<0.000203	<0.000203	
7/26/2023			
8/1/2023			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		<0.0002							
7/11/2016		<0.0002							
9/14/2016		<0.0002							
11/16/2016		<0.0002							
3/1/2017		<0.0002							
5/23/2017		<0.0002							
6/19/2017		<0.0002							
1/10/2018		<0.0002							
4/19/2018		<0.0002							
10/3/2018		<0.0002							
2/26/2019	<0.0002								
4/2/2019		<0.0002							
9/17/2019	<0.0002	<0.0002							
9/26/2019	<0.0002								
10/22/2019			<0.005						
2/19/2020		<0.0002	<0.005				<0.000203		
2/25/2020	<0.0002					<0.000203			
2/26/2020					<0.000203				
4/29/2020				<0.000203				<0.000203	<0.000203
7/20/2020					<0.000203				<0.000203
7/21/2020						<0.000203	<0.000203	<0.000203	
7/23/2020			<0.005						
7/27/2020		<0.0002		<0.000203					
7/29/2020	<0.0002								
3/30/2021					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/5/2021	<0.0002	<0.0002		<0.000203					
4/6/2021			0.00127						
4/12/2021									
9/21/2021									
9/22/2021						<0.000203			<0.000203
9/27/2021		<0.0002			<0.000203				
9/28/2021	<0.0002								
9/29/2021			0.00112	<0.000203			<0.000203	<0.000203	
4/19/2022									
4/26/2022	<0.0002				<0.000203	8E-05 (J)			<0.000203
4/27/2022				<0.000203			<0.000203	<0.000203	
5/2/2022			0.00125						
5/3/2022		<0.0002							
8/29/2022									
8/30/2022		0.000184 (J)							
8/31/2022	<0.0002		0.00121	<0.000203					
9/6/2022					<0.000203	<0.000203			<0.000203
9/7/2022							<0.000203	<0.000203	
1/24/2023	<0.0002			<0.000203					
1/25/2023						8.5E-05 (J)			<0.000203
1/31/2023			0.00135				<0.000203		
2/1/2023									
2/7/2023		<0.0002			<0.000203			<0.000203	
7/19/2023	6.9E-05 (J)		0.00123	<0.000203					
7/24/2023						0.000133 (J)			<0.000203
7/26/2023					<0.000203				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		0.000246							
8/1/2023							<0.000203	<0.000203	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.000203		
7/20/2020	<0.000203		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.000203		
4/5/2021			
4/6/2021			
4/12/2021		9.61E-05 (J)	<0.000203
9/21/2021		8E-05 (J)	<0.000203
9/22/2021			
9/27/2021	<0.000203		
9/28/2021			
9/29/2021			
4/19/2022		0.00013 (J)	<0.000203
4/26/2022	<0.000203		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.0001 (J)	<0.000203
8/30/2022			
8/31/2022			
9/6/2022	<0.000203		
9/7/2022			
1/24/2023	<0.000203		
1/25/2023			
1/31/2023			
2/1/2023		0.000101 (J)	
2/7/2023			<0.000203
7/19/2023		0.000104 (J)	<0.000203
7/24/2023			
7/26/2023	<0.000203		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.000203	
3/30/2016	<0.000203				<0.0002	<0.000203	<0.000203		
4/4/2016									<0.000203
5/17/2016	<0.000203								
5/19/2016						<0.000203	<0.000203		
5/23/2016					<0.0002			<0.000203	<0.000203
7/11/2016	<0.000203								
7/12/2016								<0.000203	<0.000203
7/13/2016						<0.000203	<0.000203		
7/14/2016					<0.0002				
9/13/2016					<0.0002	<0.000203	<0.000203	<0.000203	<0.000203
9/14/2016	<0.000203								
11/15/2016					<0.0002	<0.000203	<0.000203	<0.000203	<0.000203
11/16/2016	<0.000203								
2/28/2017	<0.000203							<0.000203	<0.000203
3/1/2017					<0.0002	<0.000203	<0.000203		
5/23/2017					<0.0002	<0.000203	<0.000203		
5/24/2017	<0.000203							<0.000203	<0.000203
6/20/2017					<0.0002	<0.000203	<0.000203	<0.000203	<0.000203
6/21/2017	<0.000203								
1/9/2018					<0.0002				
1/10/2018	<0.000203					<0.000203	<0.000203	<0.000203	<0.000203
4/17/2018					<0.0002	<0.000203	<0.000203	<0.000203	<0.000203
4/19/2018	<0.000203								
10/1/2018					<0.0002			<0.000203	<0.000203
10/3/2018	<0.000203								
10/4/2018						<0.000203	<0.000203		
4/1/2019								<0.000203	<0.000203
4/2/2019	<0.000203				<0.0002	<0.000203	<0.000203		
9/17/2019	<0.000203							<0.000203	<0.000203
9/18/2019					<0.0002	<0.000203	<0.000203		
2/17/2020									<0.000203
2/18/2020	<0.000203								
2/25/2020								<0.000203	
2/26/2020					<0.0002	<0.000203	<0.000203		
7/27/2020	<0.000203								
7/28/2020					<0.0002	<0.000203	<0.000203		
7/29/2020								<0.000203	<0.000203
4/5/2021	<0.000203								<0.000203
4/6/2021								9.45E-05 (J)	
4/7/2021					9.62E-05 (J)	<0.000203	<0.000203		
4/12/2021		0.000109 (J)	0.000167 (J)						
4/13/2021				0.00168					
9/21/2021		<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
9/27/2021	<0.000203				<0.0002	<0.000203	<0.000203		
4/19/2022		<0.000203	8E-05 (J)	0.00018 (J)					
5/2/2022	<0.000203							<0.000203	<0.000203
5/3/2022					9E-05 (J)	<0.000203	<0.000203		
8/29/2022		<0.000203	<0.000203	0.000118 (J)					
8/30/2022	7.8E-05 (J)				0.000112 (J)	<0.000203	<0.000203		
8/31/2022								<0.000203	<0.000203
1/25/2023							<0.000203	<0.000203	<0.000203

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.000203	7.3E-05 (J)	0.000141 (J)					
2/6/2023					0.000209	<0.000203			
2/7/2023	<0.000203								
7/18/2023				<0.000203					<0.000203
7/19/2023		<0.000203	0.000222					<0.000203	
7/25/2023	<0.000203								
7/26/2023						<0.000203	<0.000203		
8/1/2023					0.000152 (J)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View

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)						
8/30/2022							4.95	2.99	1.14
8/31/2022	0.73 (U)					0.868 (U)			
9/6/2022		0.101 (U)	0.847 (U)		1.92				
9/7/2022				0.895 (U)					
1/24/2023						0.984		3.45	
1/25/2023		0.0749 (U)							
1/30/2023							6.1		0.926 (U)
1/31/2023					0.93				
2/1/2023				0.682 (U)					
2/6/2023	0.256 (U)		1.06						
7/18/2023	0.312 (U)		0.73 (U)						
7/19/2023				1.36			6.83	4.54	
7/24/2023									
7/25/2023									2.19
7/26/2023					1.51				
7/31/2023		0.339 (U)							
8/1/2023						1.13 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			1.46
8/31/2022	1.62	11	
9/6/2022			
9/7/2022			
1/24/2023	1.57		1.28
1/25/2023		14	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	1.81	17.4	
7/25/2023			2.75
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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)		
8/29/2022					3.72				
8/30/2022	1		12.7	2.08		0.697 (U)	0.759 (U)		
8/31/2022									
9/6/2022									
9/7/2022								0.81 (U)	0.519 (U)
1/24/2023			11.9	2.7	2.48				
1/25/2023	0.626 (U)								
1/30/2023									
1/31/2023								0.483 (U)	0.609 (U)
2/6/2023						0.38 (U)	0.582 (U)		
2/7/2023									
7/18/2023	1.32								
7/19/2023									
7/25/2023			13.7	1.82	3.34			0.856 (U)	1.06 (U)
7/26/2023						0.841 (U)			
8/1/2023							0.711 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	0.373 (U)		
8/30/2022			
8/31/2022			6.83
9/6/2022		0.427 (U)	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			7.25
1/31/2023			
2/6/2023		0.517 (U)	
2/7/2023	0.0157 (U)		
7/18/2023			
7/19/2023			8.53
7/25/2023	0.419 (U)	0.698 (U)	
7/26/2023			
8/1/2023			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)							
5/17/2016		0.222 (U)							
7/11/2016		0.118 (U)							
9/14/2016		0.265 (U)							
11/16/2016		0.295 (U)							
3/1/2017		0.0981 (U)							
6/19/2017		0.194 (U)							
1/10/2018		0.753							
4/19/2018		0.171 (U)							
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)							
9/26/2019	16.2								
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)					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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)							
8/29/2022									
8/30/2022		0.842 (U)							
8/31/2022	17		1.91	0.888 (U)					
9/6/2022					2.26	1.8			1.93
9/7/2022							1.18	1 (U)	
1/24/2023	17.799999			0.846					
1/25/2023						1.07			1.07
1/31/2023			1.91				0.515 (U)		
2/1/2023									
2/7/2023		0.231 (U)			1.56			0.925	
7/19/2023	18.200001		2.35	1.24					
7/24/2023						2.64			2.13
7/26/2023					1.76				
7/31/2023		0.773 (U)							
8/1/2023							1.21 (U)	1.21 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	3.65		
7/20/2020	4.06		
7/21/2020			
7/27/2020			
7/29/2020			
3/30/2021	4.78		
4/5/2021			
4/6/2021			
4/12/2021		0.369 (U)	0.176 (U)
9/21/2021		0.655 (U)	0.723 (U)
9/22/2021			
9/27/2021	4		
9/28/2021			
9/29/2021			
4/19/2022		0.024 (U)	1.02
4/26/2022	4.41		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.53 (U)	0.527 (U)
8/30/2022			
8/31/2022			
9/6/2022	3.92		
9/7/2022			
1/24/2023	3.82		
1/25/2023			
1/31/2023			
2/1/2023		0.0722 (U)	
2/7/2023			0.632 (U)
7/19/2023		1.76	0.984 (U)
7/24/2023			
7/26/2023	4.22		
7/31/2023			
8/1/2023			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								3 (U)	
3/30/2016	3 (U)				3 (U)	3 (U)			
4/4/2016									3 (U)
5/17/2016	0.294 (U)								
5/19/2016						0.544	0.116 (U)		
5/23/2016					0.45			-0.317 (U)	0.0417 (U)
7/11/2016	-0.021 (U)								
7/12/2016								-0.0583 (U)	0.208 (U)
7/13/2016						0.0469 (U)	0.187 (U)		
7/14/2016					0.84				
9/13/2016					0.685	0.179 (U)	0.0165 (U)	0.127 (U)	0.436 (U)
9/14/2016	0.705								
11/15/2016					0.804	1.45	0.236 (U)	0.406 (U)	0.775
11/16/2016	0.491 (U)								
2/28/2017	0.367 (U)							-0.00408 (U)	0.42 (U)
3/1/2017					0.477	0.166 (U)	0.213 (U)		
6/20/2017					0.737	0.484	0.16 (U)	0.22 (U)	0.53
6/21/2017	0.0763 (U)								
1/9/2018					0.714				
1/10/2018	0.818					0.544	0.889	0.0982 (U)	0.903
4/17/2018					0.641	0.719	0.623	-0.237 (U)	0.293 (U)
4/19/2018	0.39 (U)								
10/1/2018					0.651			0.601	1.07
10/3/2018	1.23								
10/4/2018						0.558	0.971		
4/1/2019								-0.0724 (U)	0.334
4/2/2019	0.427				0.245 (U)	0.369	0.326 (U)		
9/17/2019	0.767							0.645	0.194 (U)
9/18/2019					0.435 (U)	0.586	0.56 (U)		
2/17/2020									0.38 (U)
2/18/2020	0.231 (U)								
2/25/2020								0.362 (U)	
2/26/2020					0.661	0.746	0.512 (U)		
7/27/2020	0.97 (U)								
7/28/2020					0.907 (U)	0.292 (U)	0.652 (U)		
7/29/2020								0.398 (U)	0.28 (U)
4/5/2021	0.474 (U)								0.843 (U)
4/6/2021								0.53 (U)	
4/7/2021					1.4	0.387 (U)	0.743 (U)		
4/12/2021		0.161 (U)	0.456 (U)						
4/13/2021				0.404 (U)					
9/21/2021		0.737 (U)	0.828 (U)	0.491 (U)				0.0496 (U)	1.05 (U)
9/27/2021	0.745 (U)				1.34	0.314 (U)	0.319 (U)		
4/19/2022		0.455 (U)	0.392 (U)	0.853 (U)					
5/2/2022	0.658 (U)							0.465 (U)	0.891
5/3/2022					0.958 (U)	0.478 (U)	0.596 (U)		
8/29/2022		0.00194 (U)	0.246 (U)	0.63 (U)					
8/30/2022	1.11				0.775 (U)	0.856 (U)	0.842 (U)		
8/31/2022								0.41 (U)	0.741 (U)
1/25/2023							0.658 (U)	0.309 (U)	0.441 (U)
2/1/2023		0.389 (U)	0.565 (U)	0.531 (U)					
2/6/2023					0.147 (U)	0.683 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/7/2023	0.885 (U)								
7/18/2023				0.707 (U)					1.2
7/19/2023		0.864 (U)	0.891 (U)					0.661 (U)	
7/25/2023	0.632 (U)								
7/26/2023						0.843 (U)	1.1 (U)		
8/1/2023					0.856 (U)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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				<0.3	<0.3			
11/16/2016									0.103 (J)
1/3/2017						<0.3			
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 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							0.114 (J)	0.0733 (J)	0.115 (J)
8/31/2022	<0.125					0.0842 (J)			
9/6/2022		<0.125	<0.125		0.0891 (J)				
9/7/2022				<0.125					
1/24/2023						0.0768 (J)		0.0946 (J)	
1/25/2023		<0.125							
1/30/2023							0.117 (J)		0.123 (J)
1/31/2023					0.106 (J)				
2/1/2023				0.0758 (J)					
2/6/2023	<0.125		0.0753 (J)						
7/18/2023	<0.125		<0.125						
7/19/2023				0.0611 (J)			0.111 (J)	0.0817 (J)	
7/24/2023									
7/25/2023									0.102 (J)
7/26/2023					0.104 (J)				
7/31/2023		<0.125							
8/1/2023						0.0627 (J)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			<0.125
8/31/2022	0.0679 (J)	<0.125	
9/6/2022			
9/7/2022			
1/24/2023	0.103 (J)		<0.125
1/25/2023		<0.125	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	0.105 (J)	0.0821 (J)	
7/25/2023			0.0686 (J)
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.1							
1/3/2017						<0.125	<0.125		
2/27/2017	<0.125								
2/28/2017			<0.125						
3/1/2017		<0.1				0.04 (J)	0.06 (J)		
5/22/2017	0.04 (J)								
5/23/2017		<0.1				0.04 (J)	0.07 (J)		
5/24/2017			0.04 (J)						
6/19/2017		<0.1	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		<0.1				<0.125	0.06 (J)		
1/9/2018			0.04 (J)				0.07 (J)		
1/10/2018	0.04 (J)	<0.1				0.06 (J)			
4/17/2018						<0.125	0.06 (J)		
4/19/2018	0.04 (J)	<0.1	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)	<0.1							
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)	<0.1	<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 10/4/2023 3:54 PM View: Constituents View
 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)		
8/29/2022					0.0767 (J)				
8/30/2022	<0.125		<0.125	0.0779 (J)		<0.125	<0.125		
8/31/2022									
9/6/2022									
9/7/2022								0.0739 (J)	<0.125
1/24/2023			<0.125	0.092 (J)	0.117 (J)				
1/25/2023	<0.125								
1/30/2023									
1/31/2023									
2/6/2023						0.0676 (J)	0.0686 (J)	0.0635 (J)	0.0812 (J)
2/7/2023									
7/18/2023	<0.125								
7/19/2023									
7/25/2023			<0.125	0.085 (J)	<0.125			<0.125	0.0709 (J)
7/26/2023						<0.125			
8/1/2023							<0.125		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	<0.125		
8/30/2022			
8/31/2022			<0.125
9/6/2022		<0.125	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.0758 (J)
1/31/2023			
2/6/2023		<0.125	
2/7/2023	<0.125		
7/18/2023			
7/19/2023			0.0831 (J)
7/25/2023	<0.125	<0.125	
7/26/2023			
8/1/2023			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)							
5/17/2016		0.068 (J)							
7/11/2016		0.057 (J)							
9/14/2016		0.017 (J)							
11/16/2016		<0.125							
3/1/2017		<0.125							
5/23/2017		<0.125							
6/19/2017		<0.125							
8/15/2017		<0.125							
1/10/2018		<0.125							
4/19/2018		<0.125							
10/3/2018		<0.125							
2/26/2019	0.106								
4/2/2019		<0.125							
9/17/2019	0.0669 (J)	<0.125							
9/26/2019	0.0749 (J)								
10/22/2019			0.187						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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						
5/3/2022		<0.125							
8/29/2022									
8/30/2022		<0.125							
8/31/2022	<0.125		0.131	0.208					
9/6/2022					0.165	0.245			0.421
9/7/2022							0.0807 (J)	0.129	
1/24/2023	<0.125			0.204					
1/25/2023						0.234			0.411
1/31/2023			0.159				0.0808 (J)		
2/1/2023									
2/7/2023		<0.125			0.14			0.138	
7/19/2023	0.0829 (J)		0.144	0.266					
7/24/2023						0.148			0.42

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/26/2023					0.134				
7/31/2023		0.0836 (J)							
8/1/2023							0.0858 (J)	0.132	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.164		
7/20/2020	0.158		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.169		
4/5/2021			
4/6/2021			
4/12/2021		<0.125	0.163
9/21/2021		0.0969 (J)	0.181
9/22/2021			
9/27/2021	0.187		
9/28/2021			
9/29/2021			
4/19/2022		<0.125	0.107 (J)
4/26/2022	0.152		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.0941 (J)	0.0988 (J)
8/30/2022			
8/31/2022			
9/6/2022	0.235		
9/7/2022			
1/24/2023	0.158		
1/25/2023			
1/31/2023			
2/1/2023		<0.125	
2/7/2023			0.109 (J)
7/19/2023		<0.125	0.107 (J)
7/24/2023			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/26/2023 0.146

7/31/2023

8/1/2023

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.104 (J)	
3/30/2016	0.023 (J)				0.048 (J)	0.056 (J)	0.034 (J)		
4/4/2016									0.109 (J)
5/17/2016	0.065 (J)								
5/19/2016						0.09 (J)	0.072 (J)		
5/23/2016					0.076 (J)			0.131 (J)	0.1 (J)
7/11/2016	0.054 (J)								
7/12/2016								0.105 (J)	0.11 (J)
7/13/2016						0.067 (J)	0.054 (J)		
7/14/2016					0.058 (J)				
9/13/2016					0.025 (J)	0.026 (J)	0.021 (J)	0.057 (J)	0.075 (J)
9/14/2016	0.014 (J)								
11/15/2016					<0.125	<0.125	<0.125	<0.125	0.023 (J)
11/16/2016	<0.125								
2/28/2017	<0.125							0.07 (J)	0.11
3/1/2017					0.04 (J)	<0.125	<0.125		
5/23/2017					0.05 (J)	0.04 (J)	0.04 (J)		
5/24/2017	<0.125							0.09 (J)	0.11
6/20/2017					0.06 (J)	0.05 (J)	0.04 (J)	0.08 (J)	0.12
6/21/2017	<0.125								
8/15/2017	<0.125				0.05 (J)	0.04 (J)	0.04 (J)	0.09 (J)	
8/16/2017									<0.1 (U*)
1/9/2018					0.04 (J)				
1/10/2018	<0.125					0.04 (J)	0.04 (J)	0.11	0.12
4/17/2018					0.04 (J)	0.04 (J)	<0.125	0.09 (J)	0.12
4/19/2018	<0.125								
10/1/2018					0.05 (J)			0.12	0.14
10/3/2018	<0.125								
10/4/2018						0.05 (J)	0.05 (J)		
4/1/2019								0.0956 (J)	0.136
4/2/2019	<0.125				0.0555 (J)	0.0586 (J)	0.052 (J)		
9/17/2019	<0.125							0.0971 (J)	0.128
9/18/2019					0.0568 (J)	0.0634 (J)	0.0578 (J)		
2/17/2020									0.15
2/18/2020	0.0506 (J)								
2/25/2020								0.0898 (J)	
2/26/2020					0.0647 (J)	<0.125	0.0523 (J)		
7/27/2020	<0.125								
7/28/2020					<0.125	<0.125	<0.125		
7/29/2020								0.0742 (J)	0.116
4/5/2021	0.0842 (J)								0.15
4/6/2021								0.114	
4/7/2021					0.0874 (J)	0.0872 (J)	0.0705 (J)		
4/12/2021		0.0651 (J)	<0.125						
4/13/2021				<0.125					
9/21/2021		0.083 (J)	0.113	0.0656 (J)				0.132	0.181
9/27/2021	0.0702 (J)				0.0989 (J)	0.0862 (J)	0.0882 (J)		
4/19/2022		<0.125	<0.125	<0.125					
5/2/2022	<0.125							0.111 (J)	0.122 (J)
5/3/2022					0.0648 (J)	<0.125	<0.125		
8/29/2022		<0.125	<0.125	<0.125					
8/30/2022	<0.125				<0.125	<0.125	<0.125		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
8/31/2022								<0.125	0.089 (J)
1/25/2023							<0.125	0.0614 (J)	0.101 (J)
2/1/2023		<0.125	<0.125	0.0603 (J)					
2/6/2023					0.0991 (J)	<0.125			
2/7/2023	<0.125								
7/18/2023				0.098 (J)					0.134
7/19/2023		<0.125	<0.125					0.0855 (J)	
7/25/2023	<0.125								
7/26/2023						<0.125	<0.125		
8/1/2023					<0.125				

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)	<0.000203			
3/29/2016							<0.000203		<0.000203
3/30/2016	<0.000203	<0.000203	<0.000203	<0.000203					
5/17/2016	<0.000203				0.00114 (J)		<0.000203		<0.000203
5/18/2016		<0.000203	<0.000203	<0.000203					
5/19/2016						<0.000203			
7/11/2016					<0.0002	<0.000203			
7/13/2016	<0.000203	<0.000203	<0.000203						
7/14/2016				<0.000203			<0.000203		<0.000203
7/18/2016									
8/22/2016						<0.000203			
9/12/2016			<0.000203	<0.000203					
9/13/2016	<0.000203	<0.000203			<0.0002		<0.000203		<0.000203
9/14/2016						<0.000203			
11/14/2016		<0.000203	<0.000203	<0.000203			<0.000203		
11/15/2016	<0.000203				<0.0002	<0.000203			
11/16/2016									<0.000203
1/3/2017						<0.000203			
2/27/2017					<0.0002	<0.000203			
2/28/2017	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203		<0.000203
5/22/2017	<0.000203	<0.000203				<0.000203			
5/24/2017			<0.000203	<0.000203	<0.0002		<0.000203		<0.000203
6/19/2017	<0.000203	<0.000203					<0.000203		<0.000203
6/20/2017						<0.000203			
6/21/2017			<0.000203	<0.000203	<0.0002				
1/9/2018		<0.000203	<0.000203	<0.000203	<0.0002	<0.000203	<0.000203		<0.000203
1/10/2018	<0.000203								
4/16/2018	<0.000203	<0.000203	<0.000203						
4/19/2018				<0.000203	<0.0002	<0.000203	<0.000203		<0.000203
10/1/2018							<0.000203		<0.000203
10/2/2018	<0.000203								
10/4/2018		<0.000203	<0.000203						
10/5/2018				<0.000203	<0.0002	<0.000203			
12/17/2018									
2/25/2019								<0.000203	
2/27/2019									
4/3/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.0002	<0.000203	<0.000203		<0.000203
5/7/2019						<0.000203			
9/16/2019	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203	
9/17/2019				<0.000203	<0.0002				<0.000203
9/18/2019						<0.000203			
2/17/2020	<0.000203	<0.000203							
2/18/2020			<0.000203						
2/19/2020				<0.000203	<0.0002				
2/25/2020						<0.000203	<0.000203	<0.000203	
2/26/2020									<0.000203
7/22/2020	<0.000203	<0.000203							
7/23/2020					<0.0002				
7/27/2020			<0.000203	<0.000203					
7/28/2020						<0.000203	<0.000203	<0.000203	
7/29/2020									<0.000203
4/5/2021	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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	<0.000203			<0.000203
9/21/2021	<0.000203	<0.000203							
9/22/2021			<0.000203	<0.000203	<0.0002				
9/28/2021						<0.000203	<0.000203	<0.000203	
9/29/2021									<0.000203
4/20/2022									<0.000203
4/26/2022									
4/27/2022					<0.0002		<0.000203	<0.000203	
5/2/2022	<0.000203	<0.000203		<0.000203		<0.000203			
5/3/2022			<0.000203						
8/30/2022							<0.000203	<0.000203	<0.000203
8/31/2022	<0.000203					<0.000203			
9/6/2022		<0.000203	<0.000203		<0.0002				
9/7/2022				<0.000203					
1/24/2023						<0.000203		0.000208	
1/25/2023		0.000107 (J)							
1/30/2023							<0.000203		7E-05 (J)
1/31/2023					<0.0002				
2/1/2023				<0.000203					
2/6/2023	<0.000203		<0.000203						
7/18/2023	<0.000203		<0.000203						
7/19/2023				<0.000203			<0.000203	0.000137 (J)	
7/24/2023									
7/25/2023									<0.000203
7/26/2023					6.9E-05 (J)				
7/31/2023		<0.000203							
8/1/2023						<0.000203			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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			<0.000203
3/30/2016			
5/17/2016			<0.000203
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.000203
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.000203
11/14/2016			<0.000203
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.000203
5/22/2017			
5/24/2017			<0.000203
6/19/2017			<0.000203
6/20/2017			
6/21/2017			
1/9/2018			<0.000203
1/10/2018			
4/16/2018			
4/19/2018			<0.000203
10/1/2018			<0.000203
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.000203		
2/25/2019			
2/27/2019		<0.000203	
4/3/2019			<0.000203
5/7/2019			
9/16/2019			
9/17/2019		<0.000203	
9/18/2019	<0.000203		<0.000203
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.000203
2/26/2020	<0.000203	<0.000203	
7/22/2020			<0.000203
7/23/2020	<0.000203	<0.000203	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.000203	<0.000203	<0.000203
9/21/2021			
9/22/2021			
9/28/2021			<0.000203
9/29/2021	<0.000203	<0.000203	
4/20/2022	<0.000203		
4/26/2022		<0.000203	<0.000203
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			<0.000203
8/31/2022	<0.000203	<0.000203	
9/6/2022			
9/7/2022			
1/24/2023	<0.000203		<0.000203
1/25/2023		6.8E-05 (J)	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	<0.000203	<0.000203	
7/25/2023			<0.000203
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.005							
3/29/2016			<0.000203						
5/18/2016	<0.0002	<0.005	<0.000203						
7/11/2016		<0.005							
7/13/2016	<0.0002		<0.000203			<0.000203			
7/14/2016							<0.000203		
8/22/2016						<0.000203	<0.000203		
9/13/2016	<0.0002					<0.000203	<0.000203		
9/14/2016		<0.005	<0.000203						
11/14/2016			<0.000203						
11/15/2016						<0.000203	<0.000203		
11/16/2016	<0.0002	<0.005							
1/3/2017						<0.000203	<0.000203		
2/27/2017	<0.0002								
2/28/2017			<0.000203						
3/1/2017		<0.005				<0.000203	<0.000203		
5/22/2017	<0.0002								
5/23/2017		<0.005				<0.000203	<0.000203		
5/24/2017			<0.000203						
6/19/2017		<0.005	<0.000203						
6/20/2017						<0.000203	<0.000203		
6/21/2017	<0.0002								
1/9/2018			<0.000203					<0.000203	
1/10/2018	<0.0002	<0.005				<0.000203			
4/17/2018						<0.000203	<0.000203		
4/19/2018	<0.0002	<0.005	<0.000203						
10/1/2018			<0.000203						
10/2/2018	<0.0002								
10/3/2018		<0.005							
10/4/2018						<0.000203	<0.000203		
12/5/2018								<0.000203	<0.000203
12/6/2018									
12/13/2018				<0.000203					
2/26/2019									
2/27/2019					<0.005				
4/1/2019	<0.0002	<0.005							
4/2/2019						<0.000203	<0.000203		
4/3/2019			<0.000203						
9/16/2019									
9/17/2019									<0.000203
9/18/2019	<0.0002	<0.005	<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.000203	
2/18/2020	<0.0002								
2/19/2020								<0.000203	<0.000203
2/25/2020			<0.000203	<0.000203	<0.005				
2/26/2020						<0.000203	<0.000203		
7/21/2020								<0.000203	<0.000203
7/22/2020			<0.000203	<0.000203	<0.005				
7/27/2020	<0.0002								
7/28/2020						<0.000203	<0.000203		
7/29/2020									
4/5/2021	<0.0002								
4/6/2021								<0.000203	<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Date	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									
4/12/2021			<0.000203	<0.000203	0.000234	<0.000203	<0.000203		
9/21/2021								<0.000203	<0.000203
9/22/2021	<0.0002								
9/27/2021						<0.000203	<0.000203		
9/28/2021			<0.000203	<0.000203	0.00072				
4/19/2022	0.00019 (J)				0.00115				
4/20/2022			<0.000203	<0.000203				<0.000203	<0.000203
4/27/2022									
5/2/2022									
5/3/2022						<0.000203	<0.000203		
8/29/2022					0.000847				
8/30/2022	<0.0002		<0.000203	<0.000203		<0.000203	<0.000203		
8/31/2022									
9/6/2022									
9/7/2022								<0.000203	8.7E-05 (J)
1/24/2023			<0.000203	<0.000203	0.000161 (J)				
1/25/2023	<0.0002								
1/30/2023									
1/31/2023								<0.000203	<0.000203
2/6/2023						<0.000203	<0.000203		
2/7/2023									
7/18/2023	0.000391								
7/19/2023									
7/25/2023			<0.000203	<0.000203	0.000135 (J)			<0.000203	<0.000203
7/26/2023						<0.000203			
8/1/2023							<0.000203		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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		<0.000203	
12/6/2018	<0.000203		
12/13/2018			
2/26/2019			<0.000203
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.000203
9/17/2019			
9/18/2019	<0.000203	<0.000203	
2/18/2020			
2/19/2020	<0.000203		
2/25/2020		<0.000203	<0.000203
2/26/2020			
7/21/2020		<0.000203	
7/22/2020	<0.000203		
7/27/2020			
7/28/2020			
7/29/2020			<0.000203
4/5/2021			0.000129 (J)
4/6/2021		<0.000203	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.000203		
4/12/2021			
9/21/2021		<0.000203	
9/22/2021	<0.000203		
9/27/2021			
9/28/2021			<0.000203
4/19/2022			
4/20/2022	<0.000203		
4/27/2022			0.0001 (J)
5/2/2022		<0.000203	
5/3/2022			
8/29/2022	<0.000203		
8/30/2022			
8/31/2022			<0.000203
9/6/2022		<0.000203	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			7.1E-05 (J)
1/31/2023			
2/6/2023		<0.000203	
2/7/2023	<0.000203		
7/18/2023			
7/19/2023			<0.000203
7/25/2023	<0.000203	<0.000203	
7/26/2023			
8/1/2023			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)							
5/17/2016		<0.0002							
7/11/2016		<0.0002							
9/14/2016		<0.0002							
11/16/2016		<0.0002							
3/1/2017		<0.0002							
5/23/2017		<0.0002							
6/19/2017		<0.0002							
1/10/2018		<0.0002							
4/19/2018		<0.0002							
10/3/2018		<0.0002							
2/26/2019	<0.000203								
4/2/2019		<0.0002							
9/17/2019	<0.000203	<0.0002							
9/26/2019	<0.000203								
10/22/2019			<0.000203						
2/19/2020		<0.0002	<0.000203				<0.000203		
2/25/2020	<0.000203					<0.0002			
2/26/2020					<0.000203				
4/29/2020				<0.000203				<0.000203	<0.000203
7/20/2020					<0.000203				<0.000203
7/21/2020						<0.0002	<0.000203	<0.000203	
7/23/2020			<0.000203						
7/27/2020		<0.0002		<0.000203					
7/29/2020	<0.000203								
3/30/2021					<0.000203	<0.0002	<0.000203	<0.000203	<0.000203
4/5/2021	<0.000203	<0.0002		<0.000203					
4/6/2021			<0.000203						
4/12/2021									
9/21/2021									
9/22/2021						<0.0002			<0.000203
9/27/2021		<0.0002			<0.000203				
9/28/2021	<0.000203								
9/29/2021			<0.000203	<0.000203			<0.000203	<0.000203	
4/19/2022									
4/26/2022	<0.000203				<0.000203	<0.0002			<0.000203
4/27/2022				<0.000203			<0.000203	<0.000203	
5/2/2022			<0.000203						
5/3/2022		<0.0002							
8/29/2022									
8/30/2022		0.000615							
8/31/2022	<0.000203		<0.000203	<0.000203					
9/6/2022					<0.000203	<0.0002			<0.000203
9/7/2022							<0.000203	<0.000203	
1/24/2023	<0.000203			<0.000203					
1/25/2023						<0.0002			<0.000203
1/31/2023			<0.000203				<0.000203		
2/1/2023									
2/7/2023		<0.0002			<0.000203			<0.000203	
7/19/2023	<0.000203		<0.000203	<0.000203					
7/24/2023						8.6E-05 (J)			<0.000203
7/26/2023					<0.000203				

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		0.000729							
8/1/2023							<0.000203	<0.000203	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.000203		
7/20/2020	<0.000203		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.000203		
4/5/2021			
4/6/2021			
4/12/2021		0.000124 (J)	<0.000203
9/21/2021		0.00012 (J)	<0.000203
9/22/2021			
9/27/2021	<0.000203		
9/28/2021			
9/29/2021			
4/19/2022		0.0001 (J)	<0.000203
4/26/2022	<0.000203		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.0002	<0.000203
8/30/2022			
8/31/2022			
9/6/2022	<0.000203		
9/7/2022			
1/24/2023	<0.000203		
1/25/2023			
1/31/2023			
2/1/2023		<0.0002	
2/7/2023			<0.000203
7/19/2023		8.7E-05 (J)	<0.000203
7/24/2023			
7/26/2023	<0.000203		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.000203	
3/30/2016	0.00247 (J)				<0.005	<0.000203	<0.000203		
4/4/2016									<0.000203
5/17/2016	<0.000203								
5/19/2016						<0.000203	<0.000203		
5/23/2016					<0.005			<0.000203	<0.000203
7/11/2016	<0.000203								
7/12/2016								<0.000203	<0.000203
7/13/2016						<0.000203	<0.000203		
7/14/2016					<0.005				
9/13/2016					<0.005	<0.000203	<0.000203	<0.000203	<0.000203
9/14/2016	<0.000203								
11/15/2016					<0.005	<0.000203	<0.000203	<0.000203	<0.000203
11/16/2016	<0.000203								
2/28/2017	<0.000203							<0.000203	<0.000203
3/1/2017					<0.005	<0.000203	<0.000203		
5/23/2017					<0.005	<0.000203	<0.000203		
5/24/2017	<0.000203							<0.000203	<0.000203
6/20/2017					<0.005	<0.000203	<0.000203	<0.000203	<0.000203
6/21/2017	<0.000203								
1/9/2018					<0.005				
1/10/2018	<0.000203					<0.000203	<0.000203	<0.000203	<0.000203
4/17/2018					<0.005	<0.000203	<0.000203	<0.000203	<0.000203
4/19/2018	<0.000203								
10/1/2018					<0.005			<0.000203	<0.000203
10/3/2018	<0.000203								
10/4/2018						<0.000203	<0.000203		
4/1/2019								<0.000203	<0.000203
4/2/2019	<0.000203				<0.005	<0.000203	<0.000203		
9/17/2019	<0.000203							<0.000203	<0.000203
9/18/2019					<0.005	<0.000203	<0.000203		
2/17/2020									<0.000203
2/18/2020	<0.000203								
2/25/2020								<0.000203	
2/26/2020					<0.005	<0.000203	<0.000203		
7/27/2020	<0.000203								
7/28/2020					<0.005	<0.000203	<0.000203		
7/29/2020								<0.000203	<0.000203
4/5/2021	<0.000203								<0.000203
4/6/2021								<0.000203	
4/7/2021					0.00014 (J)	<0.000203	<0.000203		
4/12/2021		0.000114 (J)	0.000122 (J)						
4/13/2021				<0.000203					
9/21/2021		<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
9/27/2021	<0.000203				0.0001 (J)	<0.000203	<0.000203		
4/19/2022		<0.000203	<0.000203	7E-05 (J)					
5/2/2022	<0.000203							<0.000203	<0.000203
5/3/2022					0.0001 (J)	<0.000203	<0.000203		
8/29/2022		<0.000203	<0.000203	<0.000203					
8/30/2022	<0.000203				0.00013 (J)	<0.000203	<0.000203		
8/31/2022								<0.000203	<0.000203
1/25/2023							<0.000203	<0.000203	<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.000203	6.9E-05 (J)	7E-05 (J)					
2/6/2023					0.000353	<0.000203			
2/7/2023	<0.000203								
7/18/2023				<0.000203					<0.000203
7/19/2023		<0.000203	0.000101 (J)					<0.000203	
7/25/2023	<0.000203								
7/26/2023						<0.000203	<0.000203		
8/1/2023					0.00023				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)	<0.05			
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						<0.05			
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 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							0.143	0.331	1.09
8/31/2022	<0.02					0.026			
9/6/2022		<0.02	<0.02		<0.02				
9/7/2022				<0.02					
1/24/2023						0.0258		0.394	
1/25/2023		<0.02							
1/30/2023							0.198		1.33
1/31/2023					<0.02				
2/1/2023				<0.02					
2/6/2023	<0.02		<0.02						
7/18/2023	<0.02		<0.02						
7/19/2023				<0.02			0.22	0.408	
7/24/2023									
7/25/2023									1.28
7/26/2023					<0.02				
7/31/2023		<0.02							
8/1/2023						0.0265			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			0.0456
8/31/2022	0.242	0.493	
9/6/2022			
9/7/2022			
1/24/2023	0.264		0.0457
1/25/2023		0.634	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	0.207	0.631	
7/25/2023			0.0463
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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		
8/29/2022					0.0427				
8/30/2022	<0.02		0.117	0.0077 (J)		<0.02	<0.02		
8/31/2022									
9/6/2022									
9/7/2022								<0.02	<0.02
1/24/2023			0.138	0.00829 (J)	0.0422				
1/25/2023	<0.02								
1/30/2023									
1/31/2023								<0.02	<0.02
2/6/2023						<0.02	<0.02		
2/7/2023									
7/18/2023	<0.02								
7/19/2023									
7/25/2023			0.134	0.00918 (J)	0.0422			<0.02	<0.02
7/26/2023						<0.02			
8/1/2023							<0.02		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	<0.02		
8/30/2022			
8/31/2022			0.146
9/6/2022		<0.02	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.152
1/31/2023			
2/6/2023		<0.02	
2/7/2023	<0.02		
7/18/2023			
7/19/2023			0.159
7/25/2023	<0.02	<0.02	
7/26/2023			
8/1/2023			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		<0.02							
7/11/2016		<0.02							
9/14/2016		<0.02							
11/16/2016		<0.02							
3/1/2017		<0.02							
5/23/2017		<0.02							
6/19/2017		<0.02							
1/10/2018		<0.02							
4/19/2018		<0.02							
10/3/2018		<0.02							
2/26/2019	0.277								
4/2/2019		<0.02							
9/17/2019	0.289	<0.02							
9/26/2019	0.302								
10/22/2019			<0.02						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		<0.02							
8/31/2022	0.315		<0.02	<0.02					
9/6/2022					0.0659	0.0726			0.0163 (J)
9/7/2022							0.0355	<0.02	
1/24/2023	0.335			<0.02					
1/25/2023						0.0725			0.0151 (J)
1/31/2023			<0.02				0.0305		
2/1/2023									
2/7/2023		<0.02			0.0604			<0.02	
7/19/2023	0.336		<0.02	<0.02					
7/24/2023						0.0567			0.0134 (J)
7/26/2023					0.0655				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		<0.02							
8/1/2023							0.0373	<0.02	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.0377		
7/20/2020	0.0522		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.0615		
4/5/2021			
4/6/2021			
4/12/2021		<0.02	<0.02
9/21/2021		<0.02	<0.02
9/22/2021			
9/27/2021	0.061		
9/28/2021			
9/29/2021			
4/19/2022		<0.02	<0.02
4/26/2022	0.0446		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.02	<0.02
8/30/2022			
8/31/2022			
9/6/2022	0.0431		
9/7/2022			
1/24/2023	0.039		
1/25/2023			
1/31/2023			
2/1/2023		<0.02	
2/7/2023			<0.02
7/19/2023		<0.02	<0.02
7/24/2023			
7/26/2023	0.0383		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.02	
3/30/2016	0.015 (J)				0.0307 (J)	<0.02	<0.02		
4/4/2016									<0.02
5/17/2016	<0.02								
5/19/2016						<0.02	<0.02		
5/23/2016					0.0374 (J)			<0.02	<0.02
7/11/2016	<0.02								
7/12/2016								<0.02	<0.02
7/13/2016						<0.02	<0.02		
7/14/2016					0.0499 (J)				
9/13/2016					0.0438 (J)	<0.02	<0.02	<0.02	<0.02
9/14/2016	<0.02								
11/15/2016					0.0494 (J)	<0.02	<0.02	<0.02	<0.02
11/16/2016	<0.02								
2/28/2017	<0.02							<0.02	<0.02
3/1/2017					0.0426 (J)	<0.02	<0.02		
5/23/2017					0.0416 (J)	<0.02	<0.02		
5/24/2017	<0.02							<0.02	<0.02
6/20/2017					0.0376 (J)	<0.02	<0.02	<0.02	<0.02
6/21/2017	<0.02								
1/9/2018					0.0461 (J)				
1/10/2018	<0.02					<0.02	<0.02	<0.02	<0.02
4/17/2018					0.0319 (J)	<0.02	<0.02	<0.02	<0.02
4/19/2018	<0.02								
10/1/2018					0.0482			<0.02	<0.02
10/3/2018	<0.02								
10/4/2018						<0.02	<0.02		
4/1/2019								<0.02	<0.02
4/2/2019	<0.02				0.0242	<0.02	<0.02		
9/17/2019	<0.02							<0.02	<0.02
9/18/2019					0.043	<0.02	<0.02		
2/17/2020									<0.02
2/18/2020	<0.02								
2/25/2020								<0.02	
2/26/2020					<0.02	<0.02	<0.02		
7/27/2020	<0.02								
7/28/2020					0.0361	<0.02	<0.02		
7/29/2020								<0.02	<0.02
4/5/2021	<0.02								<0.02
4/6/2021								<0.02	
4/7/2021					0.01 (J)	<0.02	<0.02		
4/12/2021		<0.02	<0.02						
4/13/2021				<0.02					
9/21/2021		<0.02	<0.02	<0.02				<0.02	<0.02
9/27/2021	<0.02				0.00862 (J)	<0.02	<0.02		
4/19/2022		<0.02	<0.02	<0.02					
5/2/2022	<0.02							<0.02	<0.02
5/3/2022					<0.02	0.0178 (J)	<0.02		
8/29/2022		<0.02	<0.02	<0.02					
8/30/2022	<0.02				<0.02	0.00779 (J)	<0.02		
8/31/2022								<0.02	<0.02
1/25/2023							<0.02	<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.02	<0.02	<0.02					
2/6/2023					<0.02	<0.02			
2/7/2023	<0.02								
7/18/2023				<0.02					<0.02
7/19/2023		<0.02	<0.02					<0.02	
7/25/2023	<0.02								
7/26/2023						<0.02	<0.02		
8/1/2023					<0.02				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005					<0.0005			
9/6/2022		<0.0005	<0.0005		<0.0005				
9/7/2022				<0.0005					
1/24/2023						<0.0005		<0.0005	
1/25/2023		<0.0005							
1/30/2023							<0.0005		<0.0005
1/31/2023					<0.0005				
2/1/2023				<0.0005					
2/6/2023	<0.0005		<0.0005						
7/18/2023	<0.0005		<0.0005						
7/19/2023				<0.0005			<0.0005	<0.0005	
7/24/2023									
7/25/2023									<0.0005
7/26/2023					<0.0005				
7/31/2023		<0.0005							
8/1/2023						<0.0005			

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			<0.0005
8/31/2022	<0.0005	<0.0005	
9/6/2022			
9/7/2022			
1/24/2023	<0.0005		<0.0005
1/25/2023		<0.0005	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	<0.0005	<0.0005	
7/25/2023			<0.0005
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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		
8/29/2022					<0.0005				
8/30/2022	<0.0005		<0.0005	<0.0005		<0.0005	<0.0005		
8/31/2022									
9/6/2022									
9/7/2022								<0.0005	<0.0005
1/24/2023			<0.0005	<0.0005	<0.0005				
1/25/2023	<0.0005								
1/30/2023									
1/31/2023								<0.0005	<0.0005
2/6/2023						<0.0005	<0.0005		
2/7/2023									
7/18/2023	<0.0005								
7/19/2023									
7/25/2023			<0.0005	<0.0005	<0.0005			<0.0005	<0.0005
7/26/2023						<0.0005			
8/1/2023							<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	<0.0005		
8/30/2022			
8/31/2022			<0.0005
9/6/2022		<0.0005	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.0005
1/31/2023			
2/6/2023		<0.0005	
2/7/2023	<0.0005		
7/18/2023			
7/19/2023			<0.0005
7/25/2023	<0.0005	<0.0005	
7/26/2023			
8/1/2023			

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		<0.0005							
7/11/2016		<0.0005							
9/14/2016		<0.0005							
11/16/2016		<0.0005							
3/1/2017		<0.0005							
5/23/2017		<0.0005							
6/19/2017		<0.0005							
1/10/2018		<0.0005							
4/19/2018		<0.0005							
10/3/2018		<0.0005							
2/26/2019	<0.0005								
4/2/2019		<0.0005							
9/17/2019	<0.0005	<0.0005							
9/26/2019	<0.0005								
10/22/2019			<0.0005						
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					
7/29/2020	<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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		<0.0005							
8/31/2022	<0.0005		<0.0005	<0.0005					
9/6/2022					<0.0005	<0.0005			<0.0005
9/7/2022							<0.0005	<0.0005	
1/24/2023	<0.0005			<0.0005					
1/25/2023						<0.0005			<0.0005
1/31/2023			<0.0005				<0.0005		
2/1/2023									
2/7/2023		<0.0005			<0.0005			<0.0005	
7/19/2023	<0.0005		<0.0005	<0.0005					
7/24/2023						<0.0005			<0.0005
7/26/2023					<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		<0.0005							
8/1/2023							<0.0005	<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.0005		
7/20/2020	<0.0005		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.0005		
4/5/2021			
4/6/2021			
4/12/2021		<0.0005	<0.0005
9/21/2021		<0.0005	<0.0005
9/22/2021			
9/27/2021	<0.0005		
9/28/2021			
9/29/2021			
4/19/2022		<0.0005	<0.0005
4/26/2022	<0.0005		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.0005	<0.0005
8/30/2022			
8/31/2022			
9/6/2022	<0.0005		
9/7/2022			
1/24/2023	<0.0005		
1/25/2023			
1/31/2023			
2/1/2023		<0.0005	
2/7/2023			<0.0005
7/19/2023		<0.0005	<0.0005
7/24/2023			
7/26/2023	<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.0005	
3/30/2016	0.000278 (J)				<0.0005	<0.0005	<0.0005		
4/4/2016									<0.0005
5/17/2016	<0.0005								
5/19/2016					<0.0005	<0.0005			
5/23/2016					<0.0005			<0.0005	<0.0005
7/11/2016	<0.0005								
7/12/2016								<0.0005	<0.0005
7/13/2016						<0.0005	<0.0005		
7/14/2016					<0.0005				
9/13/2016					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/14/2016	<0.0005								
11/15/2016					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/16/2016	<0.0005								
2/28/2017	<0.0005							<0.0005	<0.0005
3/1/2017					<0.0005	<0.0005	<0.0005		
5/23/2017					<0.0005	<0.0005	<0.0005		
5/24/2017	<0.0005							<0.0005	<0.0005
6/20/2017					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/21/2017	<0.0005								
1/9/2018					<0.0005				
1/10/2018	<0.0005					<0.0005	<0.0005	<0.0005	<0.0005
4/17/2018					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/19/2018	<0.0005								
10/1/2018					<0.0005			<0.0005	<0.0005
10/3/2018	<0.0005								
10/4/2018						<0.0005	<0.0005		
4/1/2019								<0.0005	<0.0005
4/2/2019	<0.0005				<0.0005	<0.0005	<0.0005		
9/17/2019	<0.0005							<0.0005	<0.0005
9/18/2019					<0.0005	<0.0005	<0.0005		
2/17/2020									<0.0005
2/18/2020	<0.0005								
2/25/2020								<0.0005	
2/26/2020					<0.0005	<0.0005	<0.0005		
7/27/2020	<0.0005								
7/28/2020					<0.0005	<0.0005	<0.0005		
7/29/2020								<0.0005	<0.0005
4/5/2021	<0.0005								<0.0005
4/6/2021								<0.0005	
4/7/2021					<0.0005	<0.0005	<0.0005		
4/12/2021		<0.0005	<0.0005						
4/13/2021				<0.0005					
9/21/2021		<0.0005	<0.0005	<0.0005				<0.0005	<0.0005
9/27/2021	<0.0005				<0.0005	<0.0005	<0.0005		
4/19/2022		<0.0005	<0.0005	<0.0005					
5/2/2022	<0.0005							<0.0005	<0.0005
5/3/2022					<0.0005	<0.0005	<0.0005		
8/29/2022		<0.0005	<0.0005	<0.0005					
8/30/2022	<0.0005				<0.0005	<0.0005	<0.0005		
8/31/2022								<0.0005	<0.0005
1/25/2023							<0.0005	<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.0005	<0.0005	<0.0005					
2/6/2023					<0.0005	<0.0005			
2/7/2023	<0.0005								
7/18/2023				<0.0005					<0.0005
7/19/2023		<0.0005	<0.0005					<0.0005	
7/25/2023	<0.0005								
7/26/2023						<0.0005	<0.0005		
8/1/2023					<0.0005				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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					<0.01015	0.0126			
3/29/2016							0.288		2.19
3/30/2016	<0.01015	<0.01015	<0.01015	<0.01015					
5/17/2016	<0.01015				<0.01015		0.269		2.24
5/18/2016		<0.01015	<0.01015	<0.01015					
5/19/2016						0.0142			
7/11/2016					0.00361 (J)	0.0542			
7/13/2016	<0.01015	<0.01015	<0.01015						
7/14/2016				<0.01015			0.305		2.1
7/18/2016									
8/22/2016						0.0577			
9/12/2016			<0.01015	<0.01015					
9/13/2016	<0.01015	<0.01015			<0.01015		0.306		2.3
9/14/2016						0.0627			
11/14/2016		<0.01015	<0.01015	<0.01015			0.305		
11/15/2016	<0.01015				<0.01015	0.0712			
11/16/2016									1.92
1/3/2017						0.0788			
2/27/2017					<0.01015	0.121			
2/28/2017	<0.01015	<0.01015	<0.01015	<0.01015			0.368		2.6
5/22/2017	<0.01015	<0.01015				0.117			
5/24/2017			<0.01015	<0.01015	<0.01015		0.275		1.77
6/19/2017	<0.01015	<0.01015					0.26		1.9
6/20/2017						0.121			
6/21/2017			<0.01015	<0.01015	<0.01015				
1/9/2018		<0.01015	<0.01015	<0.01015	<0.01015	0.138	0.316		2.14
1/10/2018	<0.01015								
4/16/2018	<0.01015	<0.01015	<0.01015						
4/19/2018				<0.01015	<0.01015	0.141	0.275		1.87
10/1/2018							0.267		1.95
10/2/2018	<0.01015								
10/4/2018		<0.01015	<0.01015						
10/5/2018				<0.01015	<0.01015	0.214			
12/17/2018									
2/25/2019								0.667	
2/27/2019									
4/3/2019	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	0.433	0.311		2.33
5/7/2019						0.292			
9/16/2019	<0.01015	<0.01015	<0.01015				0.32	0.625	
9/17/2019				<0.01015	<0.01015				2.33
9/18/2019						0.307			
2/17/2020	<0.01015	<0.01015							
2/18/2020			<0.01015						
2/19/2020				<0.01015	<0.01015				
2/25/2020						0.209	0.343	0.629	
2/26/2020									2.83
7/22/2020	<0.01015	<0.01015							
7/23/2020					<0.01015				
7/27/2020			<0.01015	<0.01015					
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 10/4/2023 3:54 PM View: Constituents View

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						
8/30/2022							0.529	0.686	2.84
8/31/2022	0.000158 (J)					0.138			
9/6/2022		0.000269	0.000272		0.000701				
9/7/2022				0.000315					
1/24/2023						0.143		0.74	
1/25/2023		0.000291							
1/30/2023							0.556		3.06
1/31/2023					0.000984				
2/1/2023				0.000341					
2/6/2023	0.000249		0.000316						
7/18/2023	<0.01015		<0.01015						
7/19/2023				<0.01015			0.619	0.669	
7/24/2023									
7/25/2023									3.03
7/26/2023					<0.01015				
7/31/2023		<0.01015							
8/1/2023						0.129			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			0.069
8/31/2022	1.13	2.12	
9/6/2022			
9/7/2022			
1/24/2023	1.15		0.071
1/25/2023		2.15	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	0.884	1.91	
7/25/2023			0.0724
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.01	0.657						
7/11/2016		<0.01							
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		<0.01	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		<0.01				0.00593 (J)	0.0627		
5/22/2017	0.0122								
5/23/2017		<0.01				0.00491 (J)	0.0684		
5/24/2017			0.623						
6/19/2017		<0.01	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	<0.01				0.0126			
4/17/2018						0.00623 (J)	0.0638		
4/19/2018	0.0111	<0.01	0.689						
10/1/2018			0.775						
10/2/2018	0.0113								
10/3/2018		<0.01							
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	<0.01							
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	<0.01	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 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Date	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		
8/29/2022					0.34				
8/30/2022	0.0144		0.785	0.177		0.0101	0.0418		
8/31/2022									
9/6/2022									
9/7/2022								0.000634	0.0148
1/24/2023			0.915	0.185	0.329				
1/25/2023	0.0154								
1/30/2023									
1/31/2023								0.00131	0.00931
2/6/2023						0.012	0.0331		
2/7/2023									
7/18/2023	0.014								
7/19/2023									
7/25/2023			0.915	0.208	0.326			<0.01015	0.0078 (J)
7/26/2023						0.00956 (J)			
8/1/2023							0.0424		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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	<0.01015		
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	<0.01015	0.0187	
2/18/2020			
2/19/2020	<0.01015		
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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	0.00295		
8/30/2022			
8/31/2022			0.494
9/6/2022		0.00591	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.475
1/31/2023			
2/6/2023		0.00424	
2/7/2023	0.00254		
7/18/2023			
7/19/2023			0.485
7/25/2023	<0.01015	0.00725 (J)	
7/26/2023			
8/1/2023			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)							
5/17/2016		0.00651 (J)							
7/11/2016		0.00691 (J)							
9/14/2016		0.0074 (J)							
11/16/2016		0.00663 (J)							
3/1/2017		0.00856 (J)							
5/23/2017		0.00689 (J)							
6/19/2017		0.00687 (J)							
1/10/2018		0.00806 (J)							
4/19/2018		0.00659 (J)							
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)							
9/26/2019	0.936								
10/22/2019			0.00346 (J)						
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		0.00435							
8/31/2022	1.08		0.00223	0.0382					
9/6/2022					0.026	0.00837			0.0437
9/7/2022							0.302	0.0116	
1/24/2023	1.08			0.0292					
1/25/2023						0.0228			0.0446
1/31/2023			0.00237				0.327		
2/1/2023									
2/7/2023		0.00393			0.145			0.0117	
7/19/2023	1.06		<0.01015	0.0149					
7/24/2023						0.0399			0.0393
7/26/2023					0.0794				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		<0.01015							
8/1/2023							0.37	0.0123	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	0.208		
7/20/2020	0.213		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	0.227		
4/5/2021			
4/6/2021			
4/12/2021		0.000402	0.00167
9/21/2021		0.00017 (J)	0.00088
9/22/2021			
9/27/2021	0.221		
9/28/2021			
9/29/2021			
4/19/2022		0.0002 (J)	0.00074
4/26/2022	0.176		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		0.00013 (J)	0.000816
8/30/2022			
8/31/2022			
9/6/2022	0.156		
9/7/2022			
1/24/2023	0.136		
1/25/2023			
1/31/2023			
2/1/2023		0.000151 (J)	
2/7/2023			0.000954
7/19/2023		<0.01015	<0.01015
7/24/2023			
7/26/2023	0.121		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								0.0042 (J)	
3/30/2016	<0.01015			0.205		0.0186	<0.01015		
4/4/2016									0.00344 (J)
5/17/2016	<0.01015								
5/19/2016						0.0188	<0.01015		
5/23/2016				0.257				0.00283 (J)	0.00306 (J)
7/11/2016	<0.01015								
7/12/2016								<0.01015	<0.01015
7/13/2016						0.017	<0.01015		
7/14/2016				0.273					
9/13/2016				0.313		0.00943 (J)	<0.01015	<0.01015	<0.01015
9/14/2016	<0.01015								
11/15/2016				0.314		0.00741 (J)	<0.01015	<0.01015	<0.01015
11/16/2016	<0.01015								
2/28/2017	<0.01015							<0.01015	<0.01015
3/1/2017				0.344		0.0146	<0.01015		
5/23/2017				0.287		0.00996 (J)	<0.01015		
5/24/2017	<0.01015							<0.01015	0.00364 (J)
6/20/2017				0.265		0.0148	<0.01015	<0.01015	0.00282 (J)
6/21/2017	<0.01015								
1/9/2018				0.352					
1/10/2018	<0.01015					0.0122	<0.01015	<0.01015	<0.01015
4/17/2018				0.135		0.0146	<0.01015	<0.01015	<0.01015
4/19/2018	<0.01015								
10/1/2018				0.294				<0.01015	<0.01015
10/3/2018	<0.01015								
10/4/2018						0.0101	<0.01015		
4/1/2019								<0.01015	<0.01015
4/2/2019	<0.01015			0.164		0.0166	<0.01015		
9/17/2019	<0.01015							<0.01015	<0.01015
9/18/2019				0.261		0.0138	<0.01015		
2/17/2020									<0.01015
2/18/2020	<0.01015								
2/25/2020								<0.01015	
2/26/2020				0.0546		0.0157	<0.01015		
7/27/2020	<0.01015								
7/28/2020				0.215		0.0185	<0.01015		
7/29/2020								<0.01015	<0.01015
4/5/2021	0.000137 (J)								0.000821
4/6/2021								0.000895	
4/7/2021				0.0562		0.0119	0.00021		
4/12/2021		0.000473	<0.01015						
4/13/2021					0.000176 (J)				
9/21/2021		0.00019 (J)	<0.01015		0.00015 (J)			0.00072	0.00102
9/27/2021	0.00026				0.0541	0.0118	0.00026		
4/19/2022		0.00012 (J)	<0.01015		0.00013 (J)				
5/2/2022	0.0003							0.00107	0.0012
5/3/2022					0.0389	0.00912	0.00024		
8/29/2022		<0.01015	<0.01015	0.000169 (J)					
8/30/2022	0.000242				0.0384	0.00761	0.000281		
8/31/2022								0.000733	0.00128
1/25/2023							0.000484	0.000577	0.00114

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.01015	<0.01015	<0.01015					
2/6/2023					0.0299	0.00638			
2/7/2023	0.000994								
7/18/2023				<0.01015					<0.01015
7/19/2023		<0.01015	<0.01015					<0.01015	
7/25/2023	<0.01015								
7/26/2023						0.00616 (J)	<0.01015		
8/1/2023					0.0335				

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							7.84	8.94	9.18
8/31/2022	7.25					7.6			
9/6/2022		7.67	7.39		7.35				
9/7/2022				7.52					
1/24/2023						7.6		8.47	
1/25/2023		7.81							
1/30/2023							8.04		9.27
1/31/2023					7.62				
2/1/2023				7.55					
2/6/2023	7.6		7.45						
7/18/2023	7.05		7.26						
7/19/2023				7.36			7.84	8.33	
7/24/2023									
7/25/2023									9.16
7/26/2023					7.36				
7/31/2023		7.73							
8/1/2023						7.48			

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			6.65
8/31/2022	7.66	8.27	
9/6/2022			
9/7/2022			
1/24/2023	7.55		6.84
1/25/2023		8.35	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	7.24	8.21	
7/25/2023			6.9
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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		
8/29/2022				8.08					
8/30/2022	7.1	7.73	6.7			7.45	7.17		
8/31/2022									
9/6/2022									
9/7/2022								7.93	7.26
1/24/2023		7.98	7.07	8.13					
1/25/2023	7.69								
1/30/2023									
1/31/2023								7.97	7.19
2/6/2023						7.12	6.88		
2/7/2023									
7/18/2023	7.61								
7/19/2023									
7/25/2023		7.91	7.12	8.1				7.81	6.76
7/26/2023						7.44			
8/1/2023							6.88		

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	7.27		
8/30/2022			
8/31/2022			8.17
9/6/2022		6.99	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			8.28
1/31/2023			
2/6/2023		6.79	
2/7/2023	7.58		
7/18/2023			
7/19/2023			8.2
7/25/2023	7.55	7.06	
7/26/2023			
8/1/2023			

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		7.79							
7/11/2016		7.96							
9/14/2016		7.79							
11/16/2016		7.72							
3/1/2017		7.68							
5/23/2017		7.69							
6/19/2017		7.67							
8/15/2017		7.73							
1/10/2018		7.84							
4/19/2018		7.69							
10/3/2018		7.7							
2/26/2019	8.61								
4/2/2019		7.8							
9/17/2019		7.8							
9/26/2019	8.47								
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					
7/29/2020	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						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		9.22 (o)							
8/31/2022	8.32		7.17	7.76					
9/6/2022					7.83	7.65			7.96
9/7/2022							7.45	7.96	
1/24/2023	8.25			7.8					
1/25/2023						7.72			8.12
1/31/2023			7.14				7.85		
2/1/2023									
2/7/2023		7.79			7.42			8.17	
7/19/2023	8.17		6.81	7.54					
7/24/2023						7.56			7.93
7/26/2023					7.45				

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		7.75							
8/1/2023							7.8	8.2	

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	7.94		
7/20/2020	7.8		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	8.04		
4/5/2021			
4/6/2021			
4/12/2021		7.99	7.09
9/21/2021		7.85	7.3
9/22/2021			
9/27/2021	7.88		
9/28/2021			
9/29/2021			
4/19/2022		7.91	6.85
4/26/2022	7.9		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		8.09	7.09
8/30/2022			
8/31/2022			
9/6/2022	7.96		
9/7/2022			
1/24/2023	7.99		
1/25/2023			
1/31/2023			
2/1/2023		8.18	
2/7/2023			7.58
7/19/2023		7.78	7.04
7/24/2023			
7/26/2023	8.06		

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								7.2	
3/30/2016	7.31				7.61	7.95	7.45		
4/4/2016									7.32
5/17/2016	7.35								
5/19/2016						7.88	7.5		
5/23/2016					7.68			7.39	7.66
7/11/2016	7.43								
7/12/2016								7.43	7.77
7/13/2016						8.07	7.58		
7/14/2016					7.79				
9/13/2016					7.69	8.04	7.53	7.38	7.7
9/14/2016	7.26								
11/15/2016					7.72	7.93	7.48	7.35	7.69
11/16/2016	7.19								
2/28/2017	7.23							7.3	7.66
3/1/2017					7.55	7.89	7.46		
5/23/2017					7.64	7.96	7.51		
5/24/2017	7.26							7.33	7.64
6/20/2017					7.5	7.87	7.52	7.33	7.62
6/21/2017	7.26								
8/15/2017	7.29				7.46	7.86	7.43	7.31	
8/16/2017									7.51
1/9/2018					7.71				
1/10/2018	7.17					7.98	7.57	7.36	7.72
4/17/2018					7.29	7.82	7.5	7.28	7.57
4/19/2018	7.27								
10/1/2018					7.68			7.33	7.59
10/3/2018	7.09								
10/4/2018						7.87	7.49		
4/1/2019								7.4	7.64
4/2/2019	7.34				7.47	7.73	7.24		
9/17/2019	7.65							7.55	8.07
9/18/2019					7.53	7.85	7.52		
2/17/2020									7.75
2/18/2020	7.34								
2/25/2020								7.39	
2/26/2020					7.47	7.8	7.51		
7/27/2020	7.3								
7/28/2020					7.7	7.62	7.32		
7/29/2020								7.39	7.66
4/5/2021	7.33								7.8
4/6/2021								7.23	
4/7/2021					7.47	7.02	7.51		
4/12/2021		7.77	7.18						
4/13/2021				6.14					
9/21/2021		7.12	7.3	6.07				7.3	7.72
9/27/2021	7.37				7.55	7.92	7.74		
4/19/2022		7.68	6.8	6.31					
5/2/2022	6.68							7.44	7.7
5/3/2022					7.01	7.63	7.53		
8/29/2022		7.73	7.57	5.87					
8/30/2022	6.85				7.47	7.6	7.57		

Time Series

Constituent: pH (pH) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
8/31/2022								7.44	7.74
1/25/2023							7.61	7.45	7.75
2/1/2023		8.04	7.75	6.52					
2/6/2023					7.52	7.43			
2/7/2023	7.3								
7/18/2023				6.13					7.64
7/19/2023		7.71	7.45					7.24	
7/25/2023	7.2								
7/26/2023						7.05	7.35		
8/1/2023					7.45				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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					<0.001015	<0.001015			
3/29/2016							<0.001015		<0.001015
3/30/2016	<0.00102	<0.001015	<0.001015	<0.001015					
5/17/2016	<0.00102				<0.001015		<0.001015		<0.001015
5/18/2016		<0.001015	<0.001015	<0.001015					
5/19/2016						<0.001015			
7/11/2016					<0.001015	<0.001015			
7/13/2016	<0.00102	<0.001015	<0.001015						
7/14/2016				<0.001015			<0.001015		<0.001015
7/18/2016									
8/22/2016						<0.001015			
9/12/2016			<0.001015	<0.001015					
9/13/2016	<0.00102	<0.001015			<0.001015		<0.001015		<0.001015
9/14/2016						<0.001015			
11/14/2016		<0.001015	<0.001015	<0.001015			<0.001015		
11/15/2016	<0.00102				<0.001015	<0.001015			
11/16/2016									<0.001015
1/3/2017						<0.001015			
2/27/2017					<0.001015	<0.001015			
2/28/2017	<0.00102	<0.001015	<0.001015	<0.001015			<0.001015		<0.001015
5/22/2017	<0.00102	<0.001015				<0.001015			
5/24/2017			<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
6/19/2017	<0.00102	<0.001015					<0.001015		<0.001015
6/20/2017						<0.001015			
6/21/2017			<0.001015	<0.001015	<0.001015				
1/9/2018		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
1/10/2018	<0.00102								
4/16/2018	<0.00102	<0.001015	<0.001015						
4/19/2018				<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
10/1/2018							<0.001015		<0.001015
10/2/2018	<0.00102								
10/4/2018		<0.001015	<0.001015						
10/5/2018				<0.001015	<0.001015	<0.001015			
12/17/2018									
2/25/2019								<0.001015	
2/27/2019									
4/3/2019	<0.00102	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
5/7/2019						<0.001015			
9/16/2019	<0.00102	<0.001015	<0.001015				<0.001015	<0.001015	
9/17/2019				<0.001015	<0.001015				<0.001015
9/18/2019						<0.001015			
2/17/2020	<0.00102	<0.001015							
2/18/2020			<0.001015						
2/19/2020				<0.001015	<0.001015				
2/25/2020						<0.001015	<0.001015	<0.001015	
2/26/2020									<0.001015
7/22/2020	<0.00102	<0.001015							
7/23/2020					<0.001015				
7/27/2020			<0.001015	<0.001015					
7/28/2020						<0.001015	<0.001015	<0.001015	
7/29/2020									<0.001015
4/5/2021	<0.00102	<0.001015	<0.001015				<0.001015	<0.001015	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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				<0.001015	<0.001015	<0.001015			<0.001015
9/21/2021	<0.00102	<0.001015							
9/22/2021			<0.001015	<0.001015	<0.001015				
9/28/2021						<0.001015	<0.001015	<0.001015	
9/29/2021									<0.001015
4/20/2022									<0.001015
4/26/2022									
4/27/2022					<0.001015		<0.001015	<0.001015	
5/2/2022	0.00055 (J)	<0.001015		<0.001015		<0.001015			
5/3/2022			<0.001015						
8/30/2022							<0.001015	<0.001015	<0.001015
8/31/2022	0.000532 (J)					<0.001015			
9/6/2022		<0.001015	<0.001015		<0.001015				
9/7/2022				<0.001015					
1/24/2023						<0.001015		<0.001015	
1/25/2023		<0.001015							
1/30/2023							<0.001015		0.00059 (J)
1/31/2023					<0.001015				
2/1/2023				<0.001015					
2/6/2023	<0.00102		<0.001015						
7/18/2023	0.000557 (J)		<0.001015						
7/19/2023				<0.001015			<0.001015	<0.001015	
7/24/2023									
7/25/2023									<0.001015
7/26/2023					<0.001015				
7/31/2023		<0.001015							
8/1/2023						<0.001015			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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			<0.001015
3/30/2016			
5/17/2016			<0.001015
5/18/2016			
5/19/2016			
7/11/2016			
7/13/2016			
7/14/2016			
7/18/2016			<0.001015
8/22/2016			
9/12/2016			
9/13/2016			
9/14/2016			<0.001015
11/14/2016			<0.001015
11/15/2016			
11/16/2016			
1/3/2017			
2/27/2017			
2/28/2017			<0.001015
5/22/2017			
5/24/2017			<0.001015
6/19/2017			<0.001015
6/20/2017			
6/21/2017			
1/9/2018			<0.001015
1/10/2018			
4/16/2018			
4/19/2018			<0.001015
10/1/2018			<0.001015
10/2/2018			
10/4/2018			
10/5/2018			
12/17/2018	<0.001015		
2/25/2019			
2/27/2019		<0.001015	
4/3/2019			<0.001015
5/7/2019			
9/16/2019			
9/17/2019		<0.001015	
9/18/2019	<0.001015		<0.001015
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			<0.001015
2/26/2020	<0.001015	<0.001015	
7/22/2020			<0.001015
7/23/2020	<0.001015	<0.001015	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17SV	GN-AP-MW-17V	GN-AP-MW-18
4/6/2021	<0.001015	<0.001015	<0.001015
9/21/2021			
9/22/2021			
9/28/2021			<0.001015
9/29/2021	<0.001015	<0.001015	
4/20/2022	<0.001015		
4/26/2022		<0.001015	<0.001015
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			<0.001015
8/31/2022	<0.001015	<0.001015	
9/6/2022			
9/7/2022			
1/24/2023	<0.001015		<0.001015
1/25/2023		<0.001015	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	<0.001015	<0.001015	
7/25/2023			<0.001015
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.001015	<0.01							
3/29/2016			<0.001015						
5/18/2016	<0.001015	<0.01	<0.001015						
7/11/2016		<0.01							
7/13/2016	<0.001015		<0.001015			<0.001015			
7/14/2016							<0.001015		
8/22/2016						<0.001015	<0.001015		
9/13/2016	<0.001015					<0.001015	<0.001015		
9/14/2016		<0.01	<0.001015						
11/14/2016			<0.001015						
11/15/2016						<0.001015	<0.001015		
11/16/2016	<0.001015	<0.01							
1/3/2017						<0.001015	<0.001015		
2/27/2017	<0.001015								
2/28/2017			<0.001015						
3/1/2017		<0.01				<0.001015	<0.001015		
5/22/2017	<0.001015								
5/23/2017		<0.01				<0.001015	<0.001015		
5/24/2017			<0.001015						
6/19/2017		<0.01	<0.001015						
6/20/2017						<0.001015	<0.001015		
6/21/2017	<0.001015								
1/9/2018			<0.001015					<0.001015	
1/10/2018	<0.001015	<0.01				<0.001015			
4/17/2018						<0.001015	<0.001015		
4/19/2018	<0.001015	<0.01	<0.001015						
10/1/2018			<0.001015						
10/2/2018	<0.001015								
10/3/2018		<0.01							
10/4/2018						<0.001015	<0.001015		
12/5/2018								<0.001015	<0.001015
12/6/2018									
12/13/2018				<0.001015					
2/26/2019									
2/27/2019					<0.001015				
4/1/2019	<0.001015	<0.01							
4/2/2019						<0.001015	<0.001015		
4/3/2019			<0.001015						
9/16/2019									
9/17/2019									<0.001015
9/18/2019	<0.001015	<0.01	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
2/18/2020	<0.001015								
2/19/2020								<0.001015	<0.001015
2/25/2020			<0.001015	<0.001015	<0.001015				
2/26/2020						<0.001015	<0.001015		
7/21/2020								<0.001015	<0.001015
7/22/2020			<0.001015	<0.001015	<0.001015				
7/27/2020	<0.001015								
7/28/2020						<0.001015	<0.001015		
7/29/2020									
4/5/2021	<0.001015								
4/6/2021								<0.001015	<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Date	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						<0.001015	<0.001015		
4/12/2021			<0.001015	<0.001015	<0.001015				
9/21/2021								<0.001015	0.00068 (J)
9/22/2021	<0.001015								
9/27/2021						<0.001015	<0.001015		
9/28/2021			<0.001015	<0.001015	<0.001015				
4/19/2022	<0.001015				<0.001015				
4/20/2022			<0.001015	<0.001015				<0.001015	<0.001015
4/27/2022									
5/2/2022									
5/3/2022						<0.001015	<0.001015		
8/29/2022					<0.001015				
8/30/2022	<0.001015		<0.001015	<0.001015		<0.001015	<0.001015		
8/31/2022									
9/6/2022									
9/7/2022								<0.001015	<0.001015
1/24/2023			<0.001015	<0.001015	<0.001015				
1/25/2023	<0.001015								
1/30/2023									
1/31/2023								0.000946 (J)	0.00108
2/6/2023						<0.001015	<0.001015		
2/7/2023									
7/18/2023	<0.001015								
7/19/2023									
7/25/2023			<0.001015	<0.001015	<0.001015			<0.001015	0.000684 (J)
7/26/2023						<0.001015			
8/1/2023							<0.001015		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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		<0.001015	
12/6/2018	<0.001015		
12/13/2018			
2/26/2019			<0.001015
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.001015
9/17/2019			
9/18/2019	<0.001015	<0.001015	
2/18/2020			
2/19/2020	<0.001015		
2/25/2020		<0.001015	<0.001015
2/26/2020			
7/21/2020		<0.001015	
7/22/2020	<0.001015		
7/27/2020			
7/28/2020			
7/29/2020			<0.001015
4/5/2021			<0.001015
4/6/2021		<0.001015	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.001015		
4/12/2021			
9/21/2021		<0.001015	
9/22/2021	<0.001015		
9/27/2021			
9/28/2021			<0.001015
4/19/2022			
4/20/2022	<0.001015		
4/27/2022			<0.001015
5/2/2022		<0.001015	
5/3/2022			
8/29/2022	<0.001015		
8/30/2022			
8/31/2022			<0.001015
9/6/2022		<0.001015	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			<0.001015
1/31/2023			
2/6/2023		<0.001015	
2/7/2023	<0.001015		
7/18/2023			
7/19/2023			<0.001015
7/25/2023	<0.001015	<0.001015	
7/26/2023			
8/1/2023			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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		<0.001015							
5/17/2016		<0.001015							
7/11/2016		<0.001015							
9/14/2016		<0.001015							
11/16/2016		<0.001015							
3/1/2017		<0.001015							
5/23/2017		<0.001015							
6/19/2017		<0.001015							
1/10/2018		<0.001015							
4/19/2018		<0.001015							
10/3/2018		<0.001015							
2/26/2019	<0.001015								
4/2/2019		<0.001015							
9/17/2019	<0.001015	<0.001015							
9/26/2019	<0.001015								
10/22/2019			<0.001015						
2/19/2020		<0.001015	<0.001015				<0.001015		
2/25/2020	<0.001015					<0.001015			
2/26/2020					<0.001015				
4/29/2020				<0.001015				<0.001015	<0.001015
7/20/2020					<0.001015				<0.001015
7/21/2020						<0.001015	<0.001015	<0.001015	
7/23/2020			<0.001015						
7/27/2020		<0.001015		<0.001015					
7/29/2020	<0.001015								
3/30/2021					<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/5/2021	<0.001015	<0.001015		<0.001015					
4/6/2021			<0.001015						
4/12/2021									
9/21/2021									
9/22/2021						<0.001015			<0.001015
9/27/2021		<0.001015			<0.001015				
9/28/2021	<0.001015								
9/29/2021			<0.001015	<0.001015			<0.001015	<0.001015	
4/19/2022									
4/26/2022	<0.001015				<0.001015	<0.001015			<0.001015
4/27/2022				<0.001015			<0.001015	<0.001015	
5/2/2022			<0.001015						
5/3/2022		<0.001015							
8/29/2022									
8/30/2022		<0.001015							
8/31/2022	<0.001015		<0.001015	<0.001015					
9/6/2022					<0.001015	<0.001015			<0.001015
9/7/2022							<0.001015	<0.001015	
1/24/2023	<0.001015			<0.001015					
1/25/2023						<0.001015			<0.001015
1/31/2023			<0.001015				0.000599 (J)		
2/1/2023									
2/7/2023		<0.001015			<0.001015			<0.001015	
7/19/2023	<0.001015		<0.001015	<0.001015					
7/24/2023						<0.001015			<0.001015
7/26/2023					<0.001015				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		<0.001015							
8/1/2023							<0.001015	<0.001015	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.001015		
7/20/2020	<0.001015		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.001015		
4/5/2021			
4/6/2021			
4/12/2021		<0.001015	<0.001015
9/21/2021		<0.001015	<0.001015
9/22/2021			
9/27/2021	<0.001015		
9/28/2021			
9/29/2021			
4/19/2022		<0.001015	<0.001015
4/26/2022	<0.001015		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.001015	<0.001015
8/30/2022			
8/31/2022			
9/6/2022	<0.001015		
9/7/2022			
1/24/2023	<0.001015		
1/25/2023			
1/31/2023			
2/1/2023		<0.001015	
2/7/2023			<0.001015
7/19/2023		<0.001015	<0.001015
7/24/2023			
7/26/2023	<0.001015		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.001015	
3/30/2016	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015		
4/4/2016									<0.001015
5/17/2016	<0.001015								
5/19/2016					<0.001015	<0.001015			
5/23/2016				<0.001015				<0.001015	<0.001015
7/11/2016	<0.001015								
7/12/2016								<0.001015	<0.001015
7/13/2016					<0.001015	<0.001015			
7/14/2016				<0.001015					
9/13/2016				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/14/2016	<0.001015								
11/15/2016				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/16/2016	<0.001015								
2/28/2017	<0.001015							<0.001015	<0.001015
3/1/2017				<0.001015	<0.001015	<0.001015			
5/23/2017				<0.001015	<0.001015	<0.001015			
5/24/2017	<0.001015							<0.001015	<0.001015
6/20/2017				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/21/2017	<0.001015								
1/9/2018				<0.001015					
1/10/2018	<0.001015				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/17/2018				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/19/2018	<0.001015								
10/1/2018				<0.001015				<0.001015	<0.001015
10/3/2018	<0.001015								
10/4/2018					<0.001015	<0.001015			
4/1/2019								<0.001015	<0.001015
4/2/2019	<0.001015			<0.001015	<0.001015	<0.001015			
9/17/2019	<0.001015							<0.001015	<0.001015
9/18/2019				<0.001015	<0.001015	<0.001015			
2/17/2020									<0.001015
2/18/2020	<0.001015								
2/25/2020								<0.001015	
2/26/2020				<0.001015	<0.001015	<0.001015			
7/27/2020	<0.001015								
7/28/2020				<0.001015	<0.001015	<0.001015			
7/29/2020								<0.001015	<0.001015
4/5/2021	<0.001015								<0.001015
4/6/2021								<0.001015	
4/7/2021				<0.001015	<0.001015	<0.001015			
4/12/2021		<0.001015	<0.001015						
4/13/2021				<0.001015					
9/21/2021		<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
9/27/2021	<0.001015				<0.001015	<0.001015	<0.001015		
4/19/2022		<0.001015	<0.001015	<0.001015					
5/2/2022	<0.001015							<0.001015	<0.001015
5/3/2022				<0.001015	<0.001015	<0.001015			
8/29/2022		<0.001015	<0.001015	<0.001015					
8/30/2022	<0.001015			<0.001015	<0.001015	<0.001015			
8/31/2022								<0.001015	<0.001015
1/25/2023							<0.001015	<0.001015	<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.001015	<0.001015	0.000584 (J)					
2/6/2023					<0.001015	<0.001015			
2/7/2023	<0.001015								
7/18/2023				<0.001015					<0.001015
7/19/2023		<0.001015	<0.001015					<0.001015	
7/25/2023	<0.001015								
7/26/2023						<0.001015	<0.001015		
8/1/2023					<0.001015				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							190	157	415
8/31/2022	3.78					225			
9/6/2022		61.900002	104		148				
9/7/2022				0.641 (J)					
1/24/2023						219		146	
1/25/2023		57.799999							
1/30/2023							186		444
1/31/2023					104				
2/1/2023				0.758 (J)					
2/6/2023	3.9		107						
7/18/2023	4.01		113						
7/19/2023				3.14			234	161	
7/24/2023									
7/25/2023									493
7/26/2023					91.900002				
7/31/2023		69							
8/1/2023						233			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			203
8/31/2022	307	268	
9/6/2022			
9/7/2022			
1/24/2023	316		212
1/25/2023		265	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	326	278	
7/25/2023			216
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<5	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 10/4/2023 3:54 PM View: Constituents View
 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		
8/29/2022					495				
8/30/2022	27.5		538	400		129	77.900002		
8/31/2022									
9/6/2022									
9/7/2022								44.599998	30
1/24/2023			554	351	437				
1/25/2023	26.6								
1/30/2023									
1/31/2023								53.5	28.5
2/6/2023						113	67.199997		
2/7/2023									
7/18/2023	28.200001								
7/19/2023									
7/25/2023			614	414	504			57	24.9
7/26/2023						108			
8/1/2023							59.299999		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	88.400002		
8/30/2022			
8/31/2022			128
9/6/2022		12	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			134
1/31/2023			
2/6/2023		11.9	
2/7/2023	88.099998		
7/18/2023			
7/19/2023			127
7/25/2023	76.400002	10.7	
7/26/2023			
8/1/2023			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		5.12							
7/11/2016		4.63							
9/14/2016		3.19							
11/16/2016		3.71							
3/1/2017		3.4 (J)							
5/23/2017		2 (J)							
6/19/2017		2.5 (J)							
8/15/2017		2.4 (J)							
4/19/2018		1.9 (J)							
10/3/2018		2.7 (J)							
2/26/2019	164								
4/2/2019		3.24							
9/17/2019	161	4.51							
9/26/2019	179								
10/22/2019			23.4						
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					
7/29/2020	163								
3/30/2021					144	17.4	452	39.4	199
4/5/2021	168	3.2		21.7					
4/6/2021			37.8						
4/12/2021									
9/21/2021									
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	
4/19/2022									
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							
8/29/2022									
8/30/2022		2.73							
8/31/2022	170		25.9	35.299999					
9/6/2022					132	25.9			155
9/7/2022							471	38.599998	
1/24/2023	162			33.5					
1/25/2023						20.9			128
1/31/2023			24.4				416		
2/1/2023									
2/7/2023		2.6			137			38.200001	
7/19/2023	180		27.5	26					
7/24/2023						26.4			121
7/26/2023					140				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		4.18							
8/1/2023							470	37.5	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	99.9		
7/20/2020	94.9		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	97.3		
4/5/2021			
4/6/2021			
4/12/2021		12.6	14.6
9/21/2021		5.49	14.5
9/22/2021			
9/27/2021	104		
9/28/2021			
9/29/2021			
4/19/2022		2.72	11.4
4/26/2022	91.3		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		3.16	12.4
8/30/2022			
8/31/2022			
9/6/2022	84.699997		
9/7/2022			
1/24/2023	80.199997		
1/25/2023			
1/31/2023			
2/1/2023		1.28 (J)	
2/7/2023			14.2
7/19/2023		2.51	13.1
7/24/2023			
7/26/2023	81		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								29.9	
3/30/2016	24.9			146		204	215		
4/4/2016									13.5
5/17/2016	25.1								
5/19/2016						206	204		
5/23/2016				160				26.5	1.78
7/11/2016	33.2								
7/12/2016								24.3	0.915 (J)
7/13/2016						176	155		
7/14/2016				173					
9/13/2016				173		151	89.8	17.8	<1
9/14/2016	35.5								
11/15/2016				177		161	176	10.1	0.96 (J)
11/16/2016	38.5								
2/28/2017	32							5.8	5.5
3/1/2017				160		160	200		
5/23/2017				160		160	200		
5/24/2017	30							11	18
6/20/2017				150		160	180	7.9	13
6/21/2017	25								
8/15/2017	24			170		160	210	5	
8/16/2017									14
4/17/2018				130		160	170	2.9 (J)	14
4/19/2018	25								
10/1/2018				140				<5	11
10/3/2018	37								
10/4/2018						150	200		
4/1/2019								1.8	14.3
4/2/2019	22.4			122		198	186		
9/17/2019	39.8							4.62	13.9
9/18/2019				167		177	199		
2/17/2020									14.7
2/18/2020	21.4								
2/25/2020								3.89	
2/26/2020				39.8		178	207		
7/27/2020	21.7								
7/28/2020				152		189	160		
7/29/2020								3.25	14.7
4/5/2021	15.6								15.1
4/6/2021								3.29	
4/7/2021				38.7		151	164		
4/12/2021		7.23	2.99						
4/13/2021				4.92					
9/21/2021		1.31	1.44	3.27				1.95	18.4
9/27/2021	14.3					33.5	156	143	
4/19/2022		0.934 (J)	1.37 (J)	2.25					
5/2/2022	11.1							3.02	17.9
5/3/2022				34		115	107		
8/29/2022		<2	2.24	2.99					
8/30/2022	12.1				33.299999	123	212		
8/31/2022								1.14 (J)	18.700001
1/25/2023							110	1.96 (J)	18.6

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		0.892 (J)	1.82 (J)	2.27					
2/6/2023					21.5	103			
2/7/2023	11.2								
7/18/2023				1.65 (J)					20.799999
7/19/2023		1.7 (J)	2.04					3.93	
7/25/2023	11.4								
7/26/2023						93.900002	91.800003		
8/1/2023					20.700001				

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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						
8/30/2022							425	343	1420
8/31/2022	174					582			
9/6/2022		226	376		462				
9/7/2022				192					
1/24/2023						562		357	
1/25/2023		234							
1/30/2023							528		1540
1/31/2023					436				
2/1/2023				181					
2/6/2023	183		391						
7/18/2023	166		372						
7/19/2023				199			746	436	
7/24/2023									
7/25/2023									2010
7/26/2023					283				
7/31/2023		242							
8/1/2023						580			

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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 10/4/2023 3:54 PM View: Constituents View
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			
8/30/2022			614
8/31/2022	682	588	
9/6/2022			
9/7/2022			
1/24/2023	897		632
1/25/2023		722	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	1020	880	
7/25/2023			620
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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		
8/29/2022					878				
8/30/2022	238		930	758		390	296		
8/31/2022									
9/6/2022									
9/7/2022								313	235
1/24/2023			924	698	792				
1/25/2023	225								
1/30/2023									
1/31/2023								325	223
2/6/2023						376	302		
2/7/2023									
7/18/2023	232								
7/19/2023									
7/25/2023			950	706	850			323	225
7/26/2023						376			
8/1/2023							299		

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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 10/4/2023 3:54 PM View: Constituents View
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			
8/29/2022	349		
8/30/2022			
8/31/2022			298
9/6/2022		150	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			285
1/31/2023			
2/6/2023		143	
2/7/2023	358		
7/18/2023			
7/19/2023			320
7/25/2023	327	155	
7/26/2023			
8/1/2023			

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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							
5/17/2016		140							
7/11/2016		146							
9/14/2016		141							
11/16/2016		157							
3/1/2017		148							
5/23/2017		141							
6/19/2017		126							
8/15/2017		146							
4/19/2018		143							
10/3/2018		148							
2/26/2019	326								
4/2/2019		140							
9/17/2019	331	145							
9/26/2019	327								
10/22/2019			396						
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					
7/29/2020	328								
3/30/2021					483	329	810	252	767
4/5/2021	345	136		319					
4/6/2021			426						
4/12/2021									
9/21/2021									
9/22/2021						354			673
9/27/2021		132			447				
9/28/2021	340								
9/29/2021			415	309			844	275	
4/19/2022									
4/26/2022	359				433	303			596
4/27/2022				272			788	255	
5/2/2022			412						
5/3/2022		141							
8/29/2022									
8/30/2022		151							
8/31/2022	371		411	284					
9/6/2022					398	313			584
9/7/2022							802	256	
1/24/2023	367			271					
1/25/2023						317			556
1/31/2023			380				760		
2/1/2023									
2/7/2023		141			374			275	
7/19/2023	398		404	282					
7/24/2023						302			512
7/26/2023					372				

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		150							
8/1/2023							788	283	

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
8/15/2017			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	273		
7/20/2020	252		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	262		
4/5/2021			
4/6/2021			
4/12/2021		129	146
9/21/2021		115	139
9/22/2021			
9/27/2021	249		
9/28/2021			
9/29/2021			
4/19/2022		122	144
4/26/2022	250		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		98	136
8/30/2022			
8/31/2022			
9/6/2022	249		
9/7/2022			
1/24/2023	262		
1/25/2023			
1/31/2023			
2/1/2023		104	
2/7/2023			145
7/19/2023		103	148
7/24/2023			
7/26/2023	255		

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								290	
3/30/2016	339				398	430	472		
4/4/2016									182
5/17/2016	269								
5/19/2016						422	458		
5/23/2016					411			312	184
7/11/2016	305								
7/12/2016								292	176
7/13/2016						391	412		
7/14/2016					424				
9/13/2016					426	378	312	276	170
9/14/2016	326								
11/15/2016					412	354	426	262	180
11/16/2016	338								
2/28/2017	303							290	203
3/1/2017					452	389	487		
5/23/2017					448	375	487		
5/24/2017	312							296	199
6/20/2017					437	416	421	273	178
6/21/2017	241								
8/15/2017	281				440	394	490	279	
8/16/2017									205
4/17/2018					454	437	464	250	193
4/19/2018	282								
10/1/2018					449			246	198
10/3/2018	354								
10/4/2018						418	504		
4/1/2019								268	205
4/2/2019	270				390	447	428		
9/17/2019	332							257	207
9/18/2019					434	445	489		
2/17/2020									211
2/18/2020	274								
2/25/2020								252	
2/26/2020					228	455	490		
7/27/2020	284								
7/28/2020					406	485	434		
7/29/2020								253	215
4/5/2021	248								211
4/6/2021								256	
4/7/2021					256	436	436		
4/12/2021		118	126						
4/13/2021				77.3					
9/21/2021		111	148	83.3				256	205
9/27/2021	237				240	415	379		
4/19/2022		107	138	67.3					
5/2/2022	248							237	209
5/3/2022					239	376	329		
8/29/2022		94.699997	133	76					
8/30/2022	240				237	400	319		
8/31/2022								246	210
1/25/2023							345	227	207

Time Series

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		98.699997	122	66					
2/6/2023					222	374			
2/7/2023	247								
7/18/2023				74.699997					219
7/19/2023		109	133					243	
7/25/2023	244								
7/26/2023						343	312		
8/1/2023					228				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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					<0.000203	<0.000203			
3/29/2016							<0.000203		<0.0002
3/30/2016	<0.000203	<0.000203	<0.000203	<0.000203					
5/17/2016	<0.000203				<0.000203		<0.000203		<0.0002
5/18/2016		<0.000203	<0.000203	<0.000203					
5/19/2016						<0.000203			
7/11/2016					<0.000203	<0.000203			
7/13/2016	<0.000203	<0.000203	<0.000203						
7/14/2016				<0.000203			<0.000203		<0.0002
7/18/2016									
8/22/2016						<0.000203			
9/12/2016			<0.000203	<0.000203					
9/13/2016	<0.000203	<0.000203			<0.000203		<0.000203		<0.0002
9/14/2016						<0.000203			
11/14/2016		<0.000203	<0.000203	<0.000203			<0.000203		
11/15/2016	<0.000203				<0.000203	<0.000203			
11/16/2016									<0.0002
1/3/2017						<0.000203			
2/27/2017					<0.000203	<0.000203			
2/28/2017	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203		<0.0002
5/22/2017	<0.000203	<0.000203				<0.000203			
5/24/2017			<0.000203	<0.000203	<0.000203		<0.000203		<0.0002
6/19/2017	<0.000203	<0.000203					<0.000203		<0.0002
6/20/2017						<0.000203			
6/21/2017			<0.000203	<0.000203	<0.000203				
1/9/2018		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.0002
1/10/2018	<0.000203								
4/16/2018	<0.000203	<0.000203	<0.000203						
4/19/2018				<0.000203	<0.000203	<0.000203	<0.000203		<0.0002
10/1/2018							<0.000203		<0.0002
10/2/2018	<0.000203								
10/4/2018		<0.000203	<0.000203						
10/5/2018				<0.000203	<0.000203	<0.000203			
12/17/2018									
2/25/2019								0.000537 (J)	
2/27/2019									
4/3/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.0002
5/7/2019						<0.000203			
9/16/2019	<0.000203	<0.000203	<0.000203				<0.000203	0.000604 (J)	
9/17/2019				<0.000203	<0.000203				<0.0002
9/18/2019						<0.000203			
2/17/2020	<0.000203	<0.000203							
2/18/2020			<0.000203						
2/19/2020				<0.000203	<0.000203				
2/25/2020						<0.000203	<0.000203	0.000552 (J)	
2/26/2020									<0.0002
7/22/2020	<0.000203	<0.000203							
7/23/2020					<0.000203				
7/27/2020			<0.000203	<0.000203					
7/28/2020						<0.000203	<0.000203	0.000514 (J)	
7/29/2020									<0.0002
4/5/2021	<0.000203	<0.000203	<0.000203				<0.000203	0.000465	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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				<0.000203	<0.000203	<0.000203			<0.0002
9/21/2021	<0.000203	<0.000203							
9/22/2021			<0.000203	<0.000203	<0.000203				
9/28/2021						<0.000203	<0.000203	0.00047	
9/29/2021									<0.0002
4/20/2022									8E-05 (J)
4/26/2022									
4/27/2022					<0.000203		<0.000203	0.0006	
5/2/2022	<0.000203	<0.000203		<0.000203		<0.000203			
5/3/2022			<0.000203						
8/30/2022							<0.000203	0.000625	9.1E-05 (J)
8/31/2022	<0.000203					<0.000203			
9/6/2022		<0.000203	<0.000203		<0.000203				
9/7/2022				<0.000203					
1/24/2023						<0.000203		0.000719	
1/25/2023		<0.000203							
1/30/2023							0.000105 (J)		0.000116 (J)
1/31/2023					<0.000203				
2/1/2023				<0.000203					
2/6/2023	<0.000203		<0.000203						
7/18/2023	<0.000203		<0.000203						
7/19/2023				<0.000203		<0.000203		0.000757	
7/24/2023									
7/25/2023									0.000105 (J)
7/26/2023					<0.000203				
7/31/2023		<0.000203							
8/1/2023						<0.000203			

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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	<0.001		
2/25/2019			
2/27/2019		<0.000203	
4/3/2019			0.00034 (J)
5/7/2019			
9/16/2019			
9/17/2019		<0.000203	
9/18/2019	<0.001		0.000479 (J)
2/17/2020			
2/18/2020			
2/19/2020			
2/25/2020			0.000426 (J)
2/26/2020	0.000225 (J)	<0.000203	
7/22/2020			0.000456 (J)
7/23/2020	0.000254 (J)	<0.000203	
7/27/2020			
7/28/2020			
7/29/2020			
4/5/2021			

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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)	<0.000203	0.000389
9/21/2021			
9/22/2021			
9/28/2021			0.00036
9/29/2021	0.00021	<0.000203	
4/20/2022	0.00027		
4/26/2022		<0.000203	0.00044
4/27/2022			
5/2/2022			
5/3/2022			
8/30/2022			0.000487
8/31/2022	0.000135 (J)	<0.000203	
9/6/2022			
9/7/2022			
1/24/2023	0.000294		0.000472
1/25/2023		<0.000203	
1/30/2023			
1/31/2023			
2/1/2023			
2/6/2023			
7/18/2023			
7/19/2023			
7/24/2023	0.000188 (J)	<0.000203	
7/25/2023			0.000436
7/26/2023			
7/31/2023			
8/1/2023			

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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	<0.000203	<0.001							
3/29/2016			<0.000203						
5/18/2016	<0.000203	<0.001	<0.000203						
7/11/2016		<0.001							
7/13/2016	<0.000203		<0.000203			<0.000203			
7/14/2016							<0.000203		
8/22/2016						<0.000203	<0.000203		
9/13/2016	<0.000203					<0.000203	<0.000203		
9/14/2016		<0.001	<0.000203						
11/14/2016			<0.000203						
11/15/2016						<0.000203	<0.000203		
11/16/2016	<0.000203	<0.001							
1/3/2017						<0.000203	<0.000203		
2/27/2017	<0.000203								
2/28/2017			<0.000203						
3/1/2017		0.000265 (J)				<0.000203	<0.000203		
5/22/2017	<0.000203								
5/23/2017		0.000239 (J)				<0.000203	<0.000203		
5/24/2017			<0.000203						
6/19/2017		0.000202 (J)	<0.000203						
6/20/2017						<0.000203	<0.000203		
6/21/2017	<0.000203								
1/9/2018			<0.000203					<0.000203	
1/10/2018	<0.000203	<0.001				<0.000203			
4/17/2018						<0.000203	<0.000203		
4/19/2018	<0.000203	<0.001	<0.000203						
10/1/2018			<0.000203						
10/2/2018	<0.000203								
10/3/2018		<0.001							
10/4/2018						<0.000203	<0.000203		
12/5/2018								<0.000203	<0.000203
12/6/2018									
12/13/2018				<0.000203					
2/26/2019									
2/27/2019					<0.000203				
4/1/2019	<0.000203	<0.001							
4/2/2019						<0.000203	<0.000203		
4/3/2019			<0.000203						
9/16/2019									
9/17/2019									<0.000203
9/18/2019	<0.000203	<0.001	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
2/18/2020	<0.000203								
2/19/2020								<0.000203	<0.000203
2/25/2020			<0.000203	<0.000203	<0.000203				
2/26/2020						<0.000203	<0.000203		
7/21/2020								<0.000203	<0.000203
7/22/2020			<0.000203	<0.000203	<0.000203				
7/27/2020	<0.000203								
7/28/2020						<0.000203	<0.000203		
7/29/2020									
4/5/2021	<0.000203								
4/6/2021								<0.000203	<0.000203

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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						<0.000203	<0.000203		
4/12/2021			<0.000203	<0.000203	<0.000203				
9/21/2021								<0.000203	<0.000203
9/22/2021	<0.000203								
9/27/2021						<0.000203	<0.000203		
9/28/2021			<0.000203	<0.000203	<0.000203				
4/19/2022	<0.000203				<0.000203				
4/20/2022			<0.000203	<0.000203				<0.000203	<0.000203
4/27/2022									
5/2/2022									
5/3/2022						<0.000203	<0.000203		
8/29/2022					<0.000203				
8/30/2022	<0.000203		<0.000203	<0.000203		<0.000203	<0.000203		
8/31/2022									
9/6/2022									
9/7/2022								<0.000203	<0.000203
1/24/2023			<0.000203	<0.000203	<0.000203				
1/25/2023	<0.000203								
1/30/2023									
1/31/2023								<0.000203	<0.000203
2/6/2023						<0.000203	<0.000203		
2/7/2023									
7/18/2023	<0.000203								
7/19/2023									
7/25/2023			<0.000203	<0.000203	<0.000203			<0.000203	<0.000203
7/26/2023						<0.000203			
8/1/2023							<0.000203		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
 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		<0.000203	
12/6/2018	<0.000203		
12/13/2018			
2/26/2019			<0.001
2/27/2019			
4/1/2019			
4/2/2019			
4/3/2019			
9/16/2019			<0.001
9/17/2019			
9/18/2019	<0.000203	<0.000203	
2/18/2020			
2/19/2020	<0.000203		
2/25/2020		<0.000203	<0.001
2/26/2020			
7/21/2020		<0.000203	
7/22/2020	<0.000203		
7/27/2020			
7/28/2020			
7/29/2020			<0.001
4/5/2021			0.000149 (J)
4/6/2021		<0.000203	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-26	GN-AP-MW-27	GN-AP-MW-28H
4/7/2021	<0.000203		
4/12/2021			
9/21/2021		<0.000203	
9/22/2021	<0.000203		
9/27/2021			
9/28/2021			0.00012 (J)
4/19/2022			
4/20/2022	<0.000203		
4/27/2022			0.00021
5/2/2022		<0.000203	
5/3/2022			
8/29/2022	<0.000203		
8/30/2022			
8/31/2022			0.000102 (J)
9/6/2022		<0.000203	
9/7/2022			
1/24/2023			
1/25/2023			
1/30/2023			0.000236
1/31/2023			
2/6/2023		<0.000203	
2/7/2023	<0.000203		
7/18/2023			
7/19/2023			0.000334
7/25/2023	<0.000203	<0.000203	
7/26/2023			
8/1/2023			

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

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)							
5/17/2016		<0.001							
7/11/2016		<0.001							
9/14/2016		<0.001							
11/16/2016		<0.001							
3/1/2017		<0.001							
5/23/2017		<0.001							
6/19/2017		<0.001							
1/10/2018		<0.001							
4/19/2018		<0.001							
10/3/2018		<0.001							
2/26/2019	<0.000203								
4/2/2019		<0.001							
9/17/2019	<0.000203	<0.001							
9/26/2019	<0.000203								
10/22/2019			<0.000203						
2/19/2020		<0.001	<0.000203				<0.000203		
2/25/2020	<0.000203					<0.000203			
2/26/2020					<0.000203				
4/29/2020				<0.000203				<0.000203	<0.000203
7/20/2020					<0.000203				<0.000203
7/21/2020						<0.000203	<0.000203	<0.000203	
7/23/2020			<0.000203						
7/27/2020		<0.001		<0.000203					
7/29/2020	<0.000203								
3/30/2021					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/5/2021	<0.000203	0.000203 (J)		<0.000203					
4/6/2021			<0.000203						
4/12/2021									
9/21/2021									
9/22/2021						<0.000203			<0.000203
9/27/2021		8E-05 (J)			<0.000203				
9/28/2021	<0.000203								
9/29/2021			<0.000203	<0.000203			<0.000203	<0.000203	
4/19/2022									
4/26/2022	<0.000203				<0.000203	<0.000203			<0.000203
4/27/2022				<0.000203			<0.000203	<0.000203	
5/2/2022			<0.000203						
5/3/2022		0.00036							
8/29/2022									
8/30/2022		0.000709							
8/31/2022	<0.000203		<0.000203	<0.000203					
9/6/2022					<0.000203	<0.000203			<0.000203
9/7/2022							<0.000203	<0.000203	
1/24/2023	<0.000203			<0.000203					
1/25/2023						<0.000203			<0.000203
1/31/2023			<0.000203				<0.000203		
2/1/2023									
2/7/2023		0.000482			<0.000203			<0.000203	
7/19/2023	<0.000203		<0.000203	<0.000203					
7/24/2023						<0.000203			<0.000203
7/26/2023					<0.000203				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
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
7/31/2023		0.000399							
8/1/2023							<0.000203	<0.000203	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-37V	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)
3/28/2016			
5/17/2016			
7/11/2016			
9/14/2016			
11/16/2016			
3/1/2017			
5/23/2017			
6/19/2017			
1/10/2018			
4/19/2018			
10/3/2018			
2/26/2019			
4/2/2019			
9/17/2019			
9/26/2019			
10/22/2019			
2/19/2020			
2/25/2020			
2/26/2020			
4/29/2020	<0.000203		
7/20/2020	<0.000203		
7/21/2020			
7/23/2020			
7/27/2020			
7/29/2020			
3/30/2021	<0.000203		
4/5/2021			
4/6/2021			
4/12/2021		<0.000203	<0.000203
9/21/2021		<0.000203	<0.000203
9/22/2021			
9/27/2021	<0.000203		
9/28/2021			
9/29/2021			
4/19/2022		<0.000203	<0.000203
4/26/2022	<0.000203		
4/27/2022			
5/2/2022			
5/3/2022			
8/29/2022		<0.000203	<0.000203
8/30/2022			
8/31/2022			
9/6/2022	<0.000203		
9/7/2022			
1/24/2023	<0.000203		
1/25/2023			
1/31/2023			
2/1/2023		<0.000203	
2/7/2023			<0.000203
7/19/2023		<0.000203	<0.000203
7/24/2023			
7/26/2023	<0.000203		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

GN-AP-MW-37V GN-AP-MW-38 (bg)GN-AP-MW-39 (bg)

7/31/2023

8/1/2023

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
3/29/2016								<0.000203	
3/30/2016	<0.000203				<0.000203	<0.000203	<0.000203		
4/4/2016									<0.000203
5/17/2016	<0.000203								
5/19/2016						<0.000203	<0.000203		
5/23/2016					<0.000203			<0.000203	<0.000203
7/11/2016	<0.000203								
7/12/2016								<0.000203	<0.000203
7/13/2016						<0.000203	<0.000203		
7/14/2016					<0.000203				
9/13/2016					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/14/2016	<0.000203								
11/15/2016					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/16/2016	<0.000203								
2/28/2017	<0.000203							<0.000203	<0.000203
3/1/2017					<0.000203	<0.000203	<0.000203		
5/23/2017					<0.000203	<0.000203	<0.000203		
5/24/2017	<0.000203							<0.000203	<0.000203
6/20/2017					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/21/2017	<0.000203								
1/9/2018					<0.000203				
1/10/2018	<0.000203					<0.000203	<0.000203	<0.000203	<0.000203
4/17/2018					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/19/2018	<0.000203								
10/1/2018					<0.000203			<0.000203	<0.000203
10/3/2018	<0.000203								
10/4/2018						<0.000203	<0.000203		
4/1/2019								<0.000203	<0.000203
4/2/2019	<0.000203				<0.000203	<0.000203	<0.000203		
9/17/2019	<0.000203							<0.000203	<0.000203
9/18/2019					<0.000203	<0.000203	<0.000203		
2/17/2020									<0.000203
2/18/2020	<0.000203								
2/25/2020								<0.000203	
2/26/2020					<0.000203	<0.000203	<0.000203		
7/27/2020	<0.000203								
7/28/2020					<0.000203	<0.000203	<0.000203		
7/29/2020								<0.000203	<0.000203
4/5/2021	<0.000203								<0.000203
4/6/2021								<0.000203	
4/7/2021					<0.000203	<0.000203	<0.000203		
4/12/2021		<0.000203	<0.000203						
4/13/2021				0.00015 (J)					
9/21/2021		<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
9/27/2021	<0.000203				<0.000203	<0.000203	<0.000203		
4/19/2022		<0.000203	<0.000203	9E-05 (J)					
5/2/2022	<0.000203							<0.000203	<0.000203
5/3/2022					<0.000203	<0.000203	<0.000203		
8/29/2022		<0.000203	<0.000203	<0.000203					
8/30/2022	<0.000203				<0.000203	<0.000203	<0.000203		
8/31/2022								<0.000203	<0.000203
1/25/2023							<0.000203	<0.000203	<0.000203

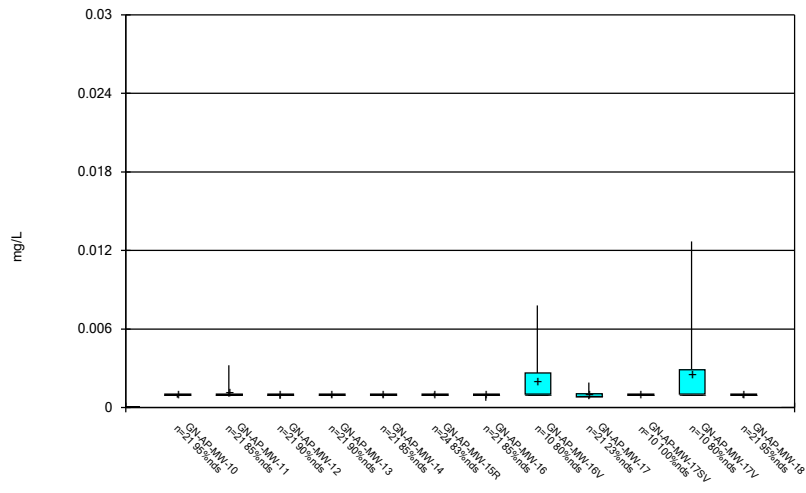
Time Series

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:54 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-4	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-8	GN-AP-MW-9
2/1/2023		<0.000203	<0.000203	8.3E-05 (J)					
2/6/2023					<0.000203	<0.000203			
2/7/2023	<0.000203								
7/18/2023				<0.000203					<0.000203
7/19/2023		<0.000203	<0.000203					<0.000203	
7/25/2023	<0.000203								
7/26/2023						<0.000203	<0.000203		
8/1/2023					<0.000203				

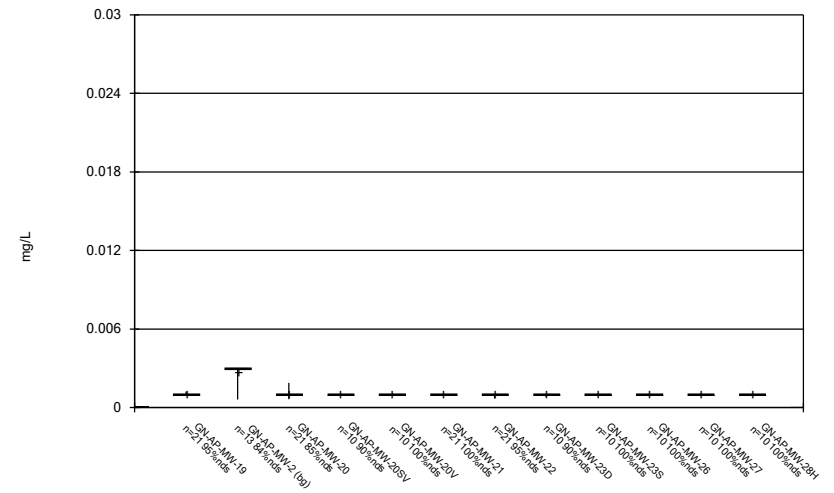
FIGURE B.

Box & Whiskers Plot



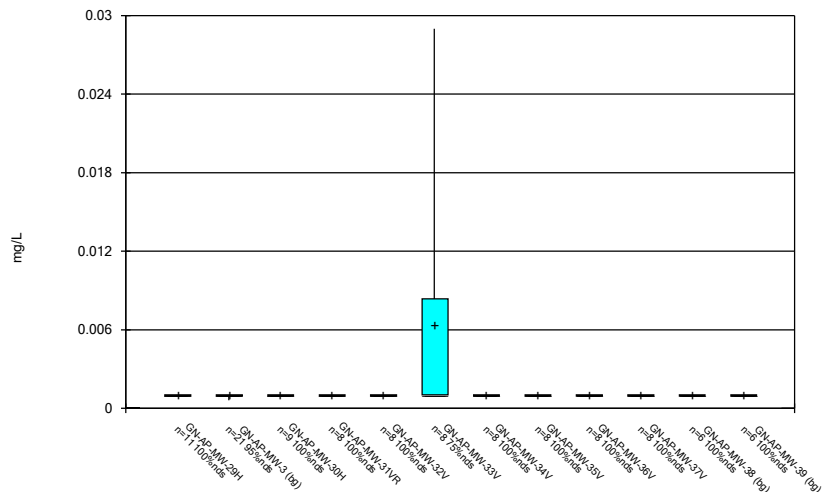
Constituent: Antimony Analysis Run 10/4/2023 4:02 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



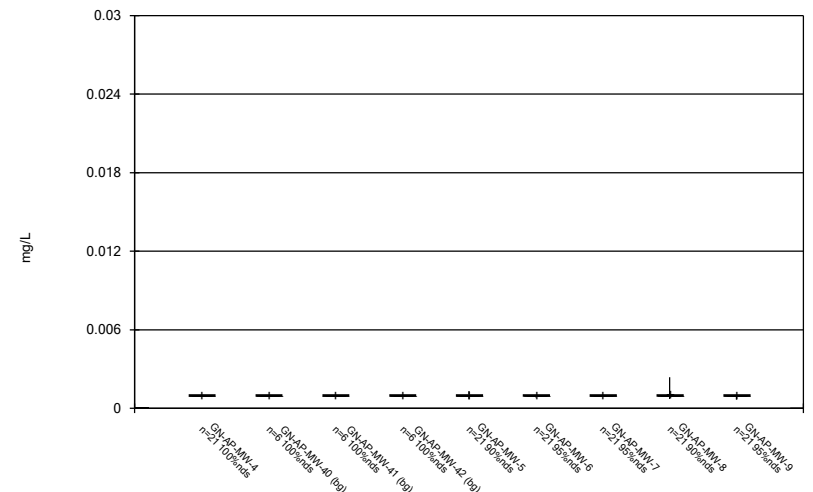
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



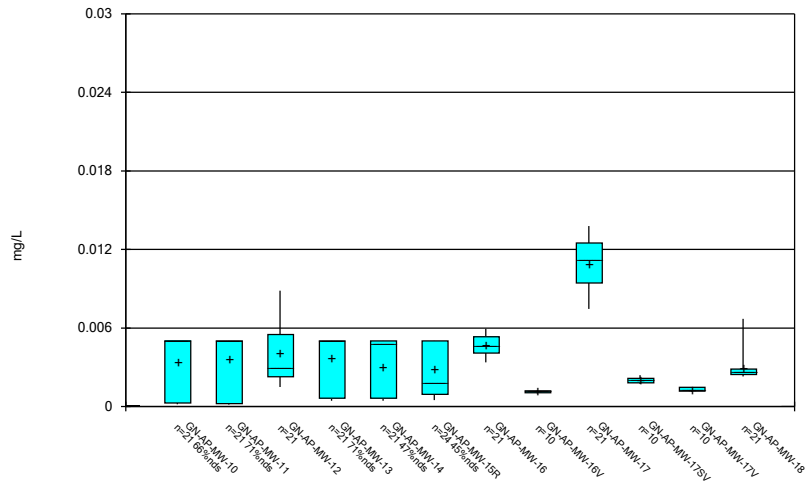
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



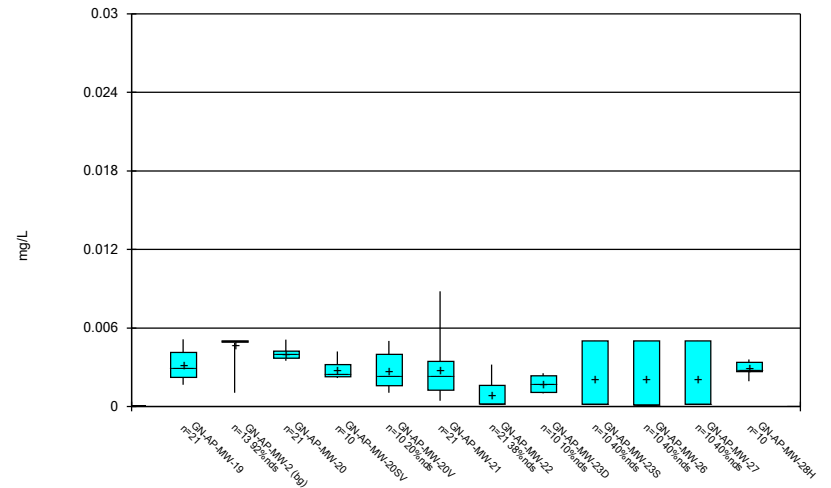
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



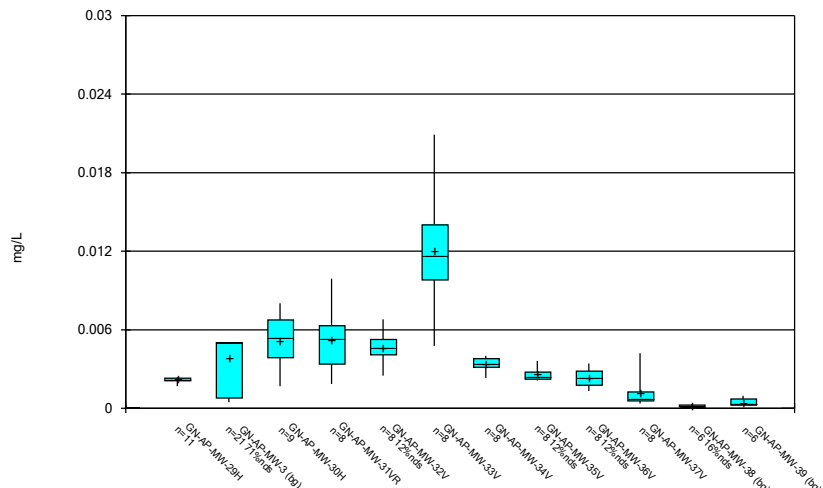
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



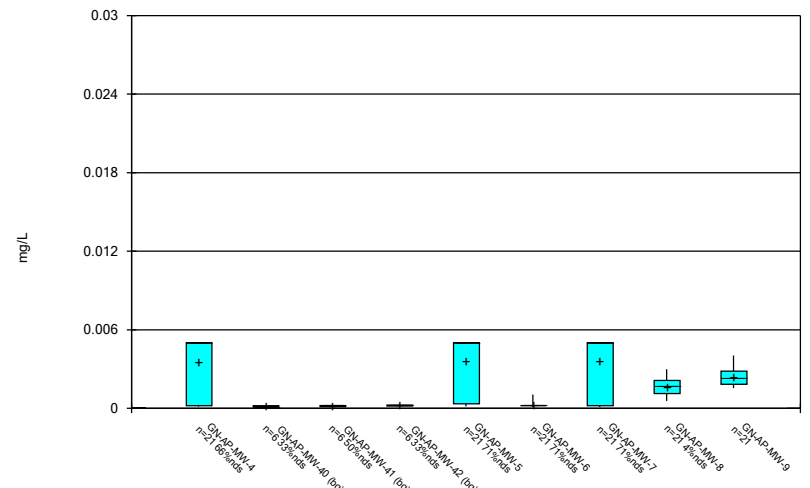
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



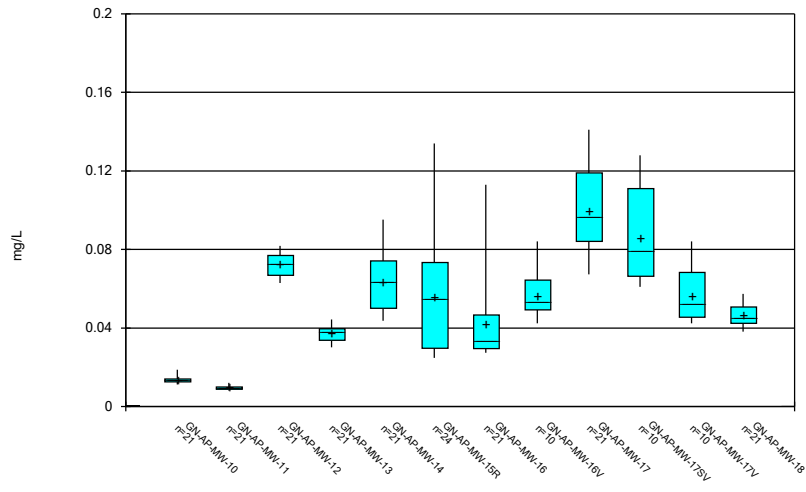
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



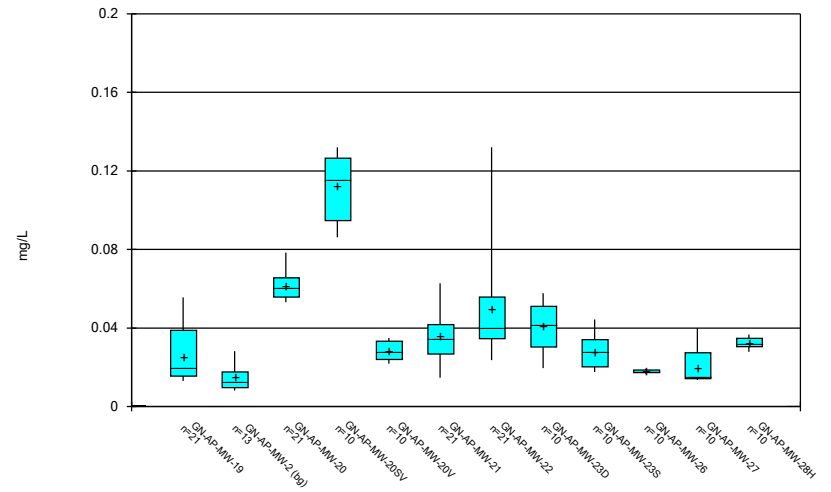
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



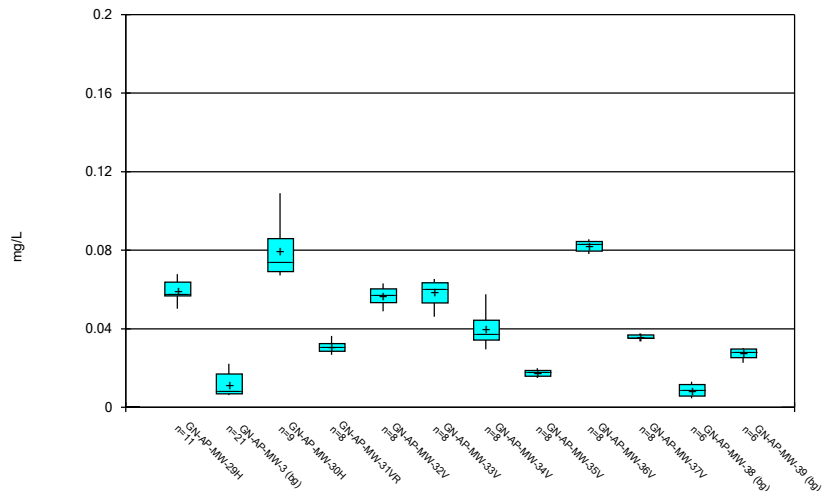
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



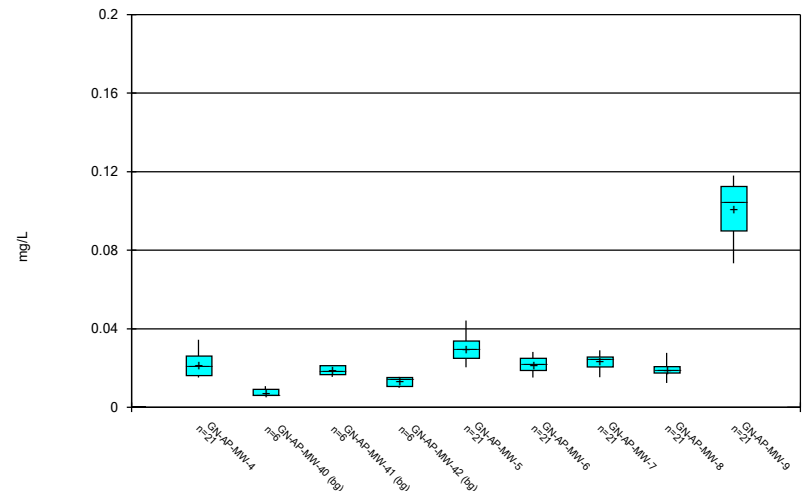
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



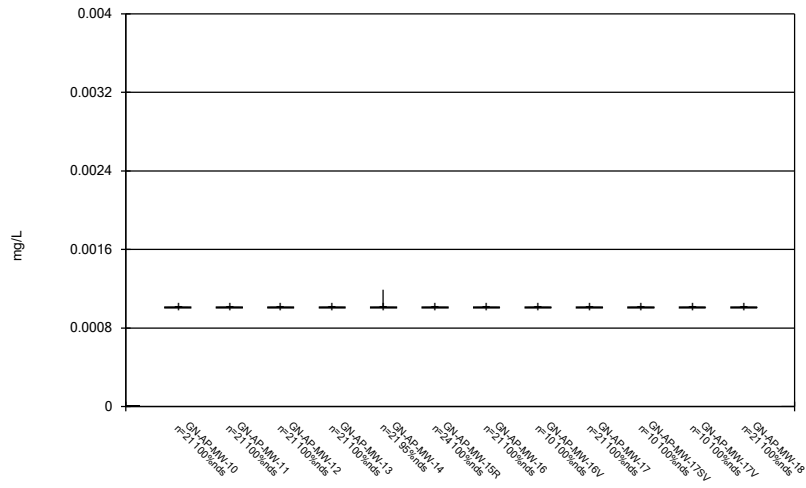
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



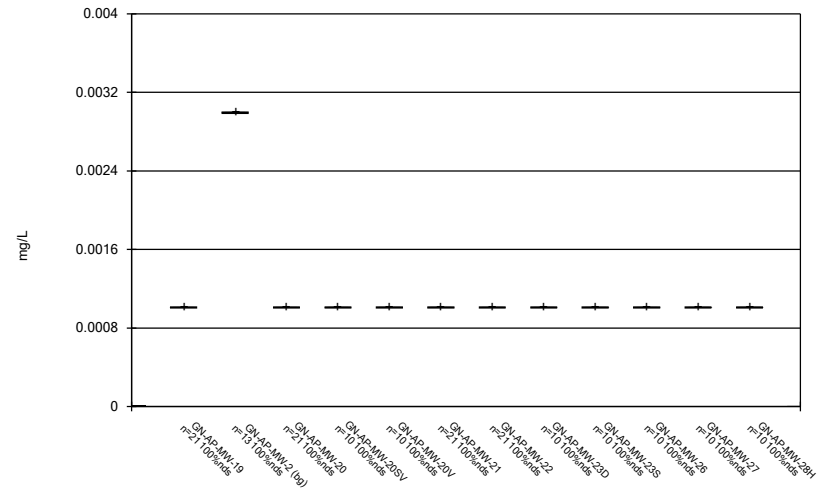
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



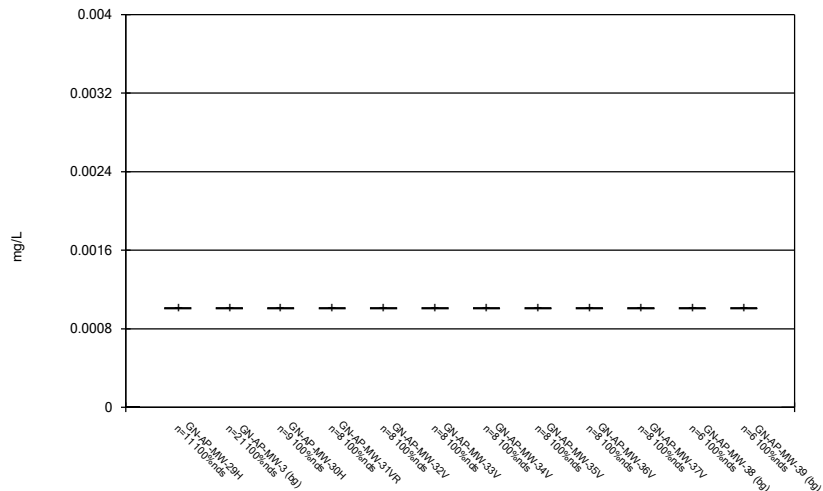
Constituent: Beryllium Analysis Run 10/4/2023 4:02 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



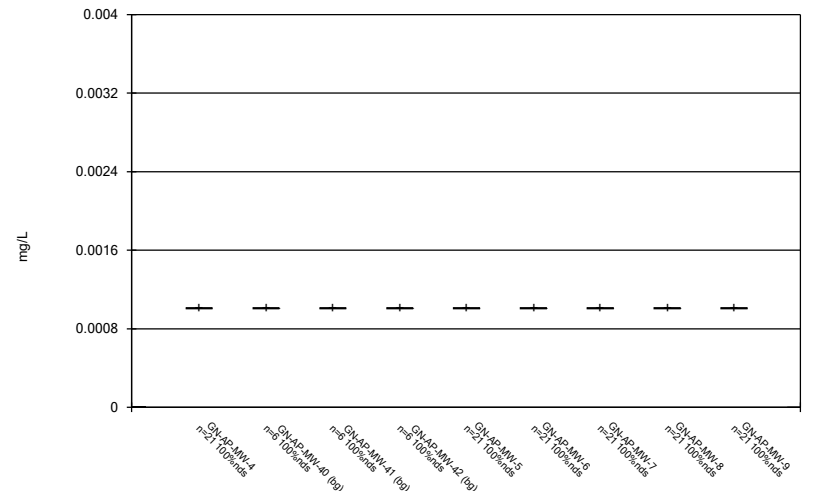
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



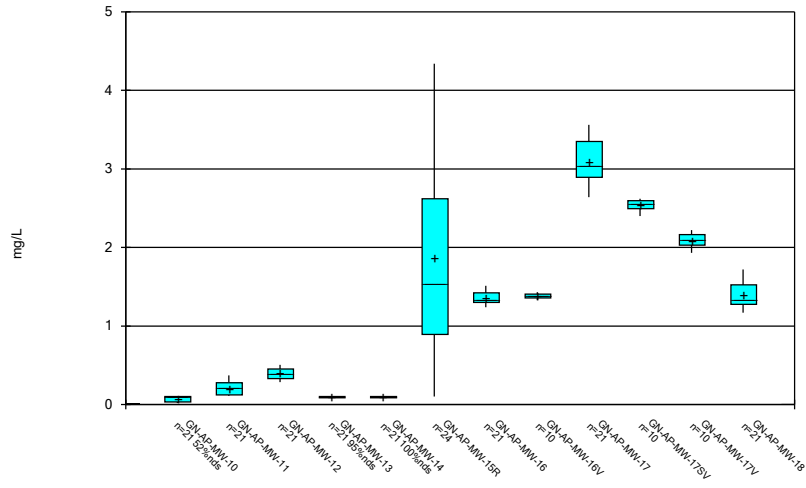
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



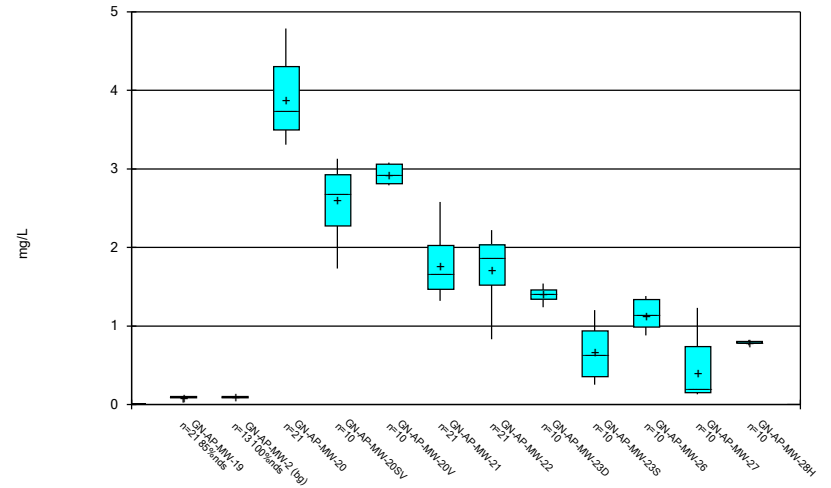
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



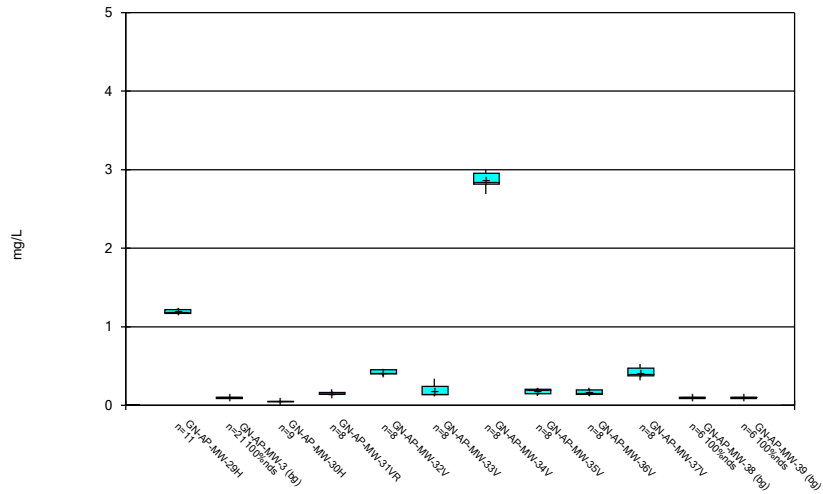
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



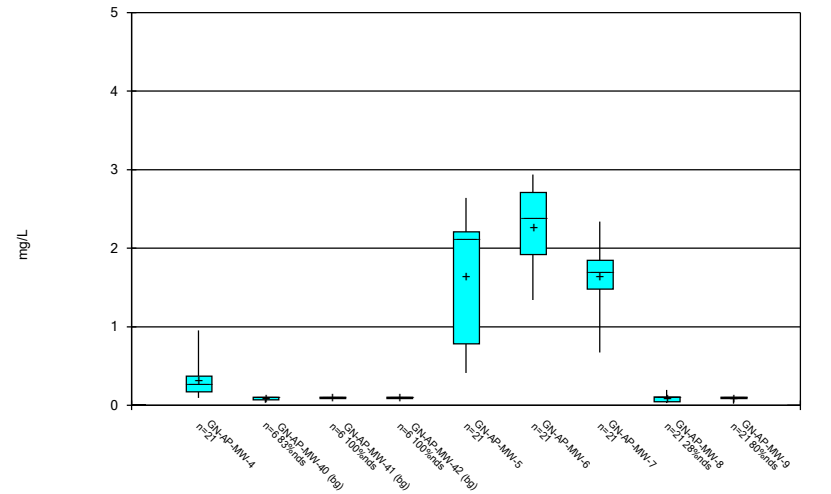
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



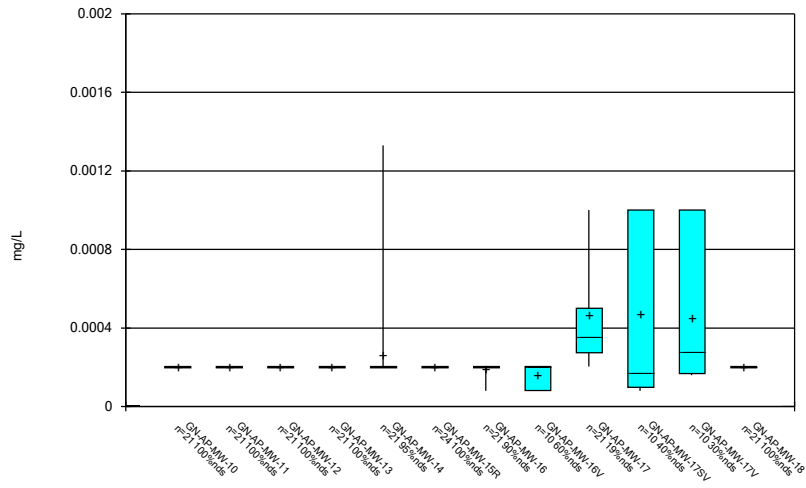
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



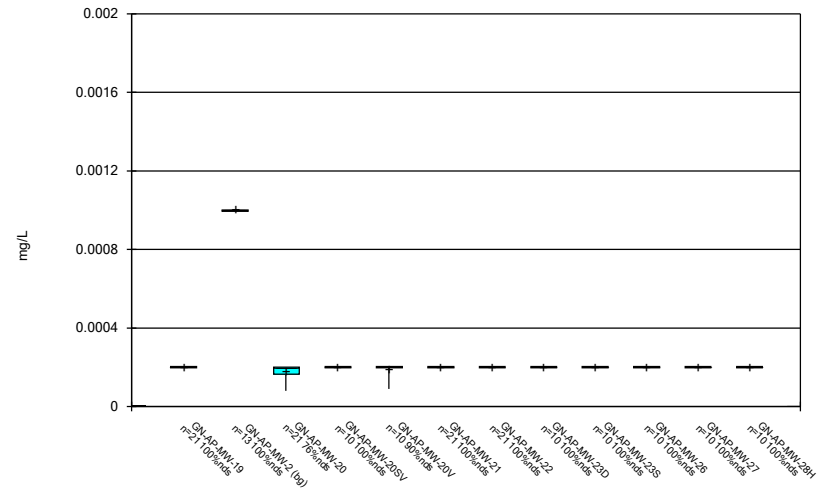
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



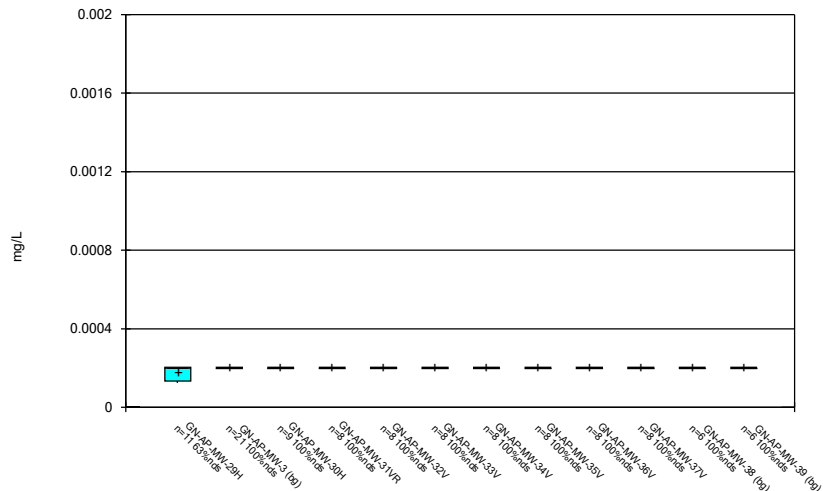
Constituent: Cadmium Analysis Run 10/4/2023 4:02 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



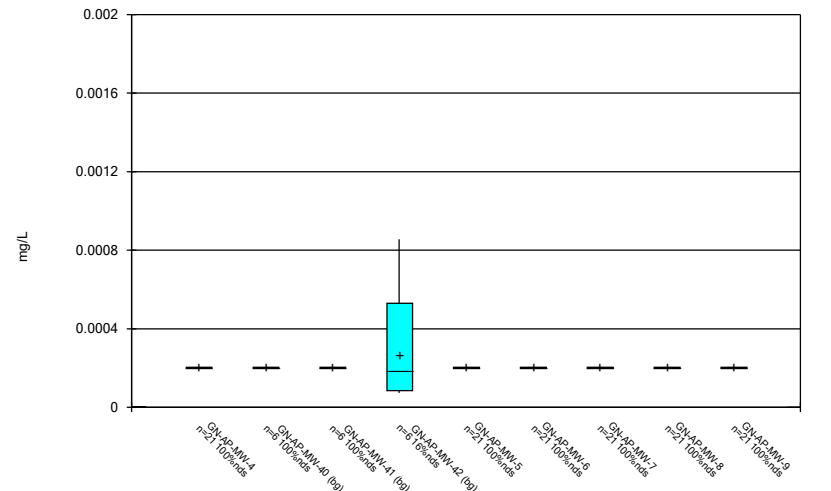
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



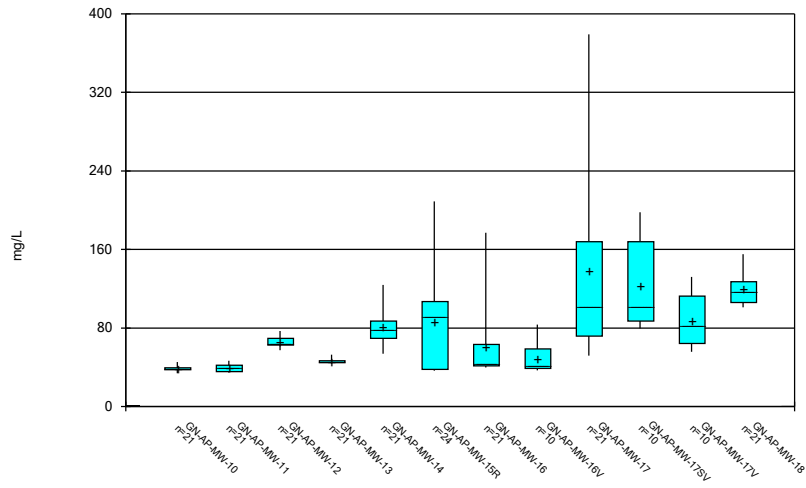
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



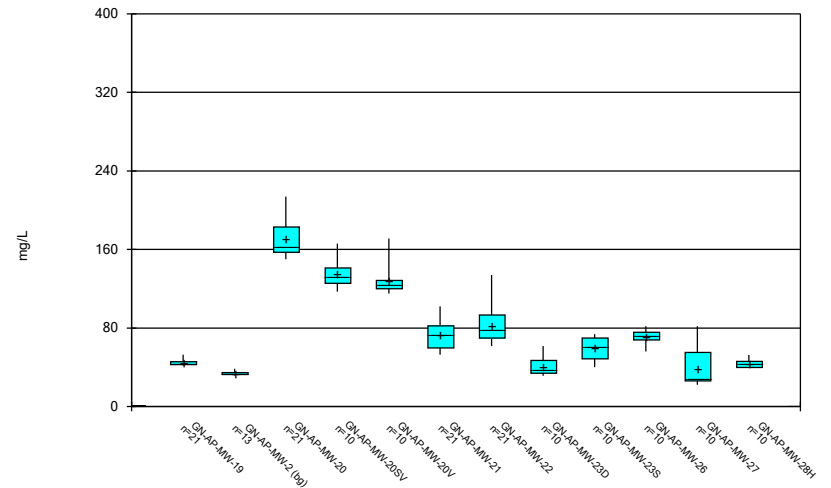
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



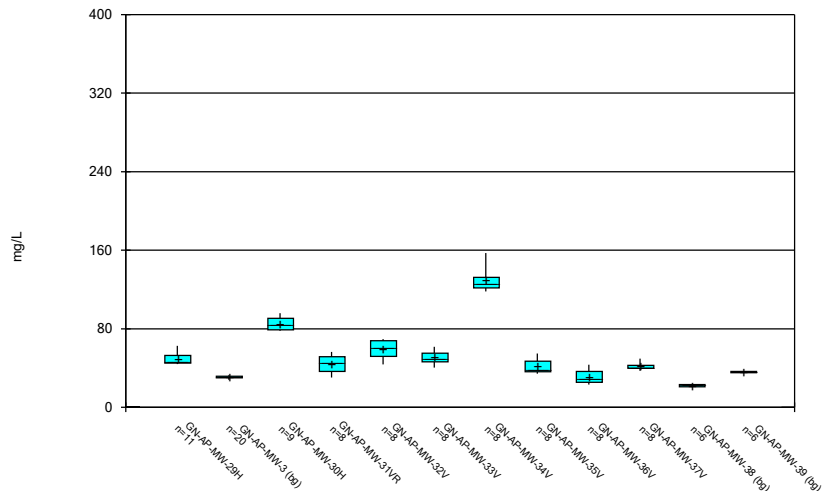
Constituent: Calcium Analysis Run 10/4/2023 4:02 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



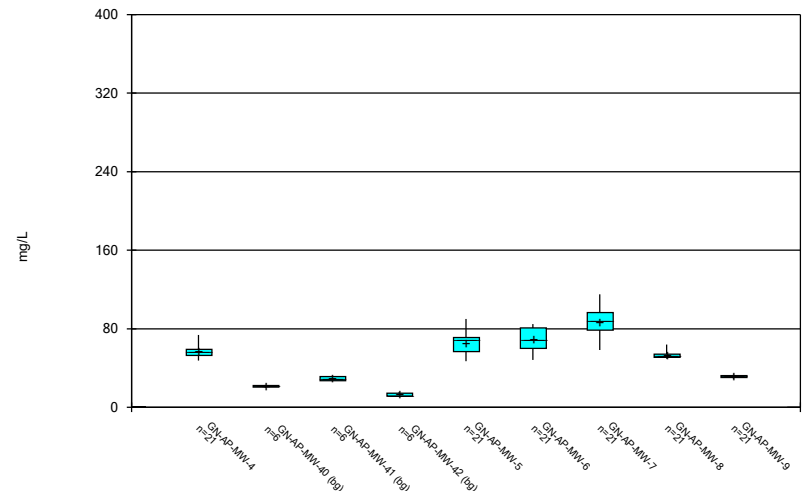
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



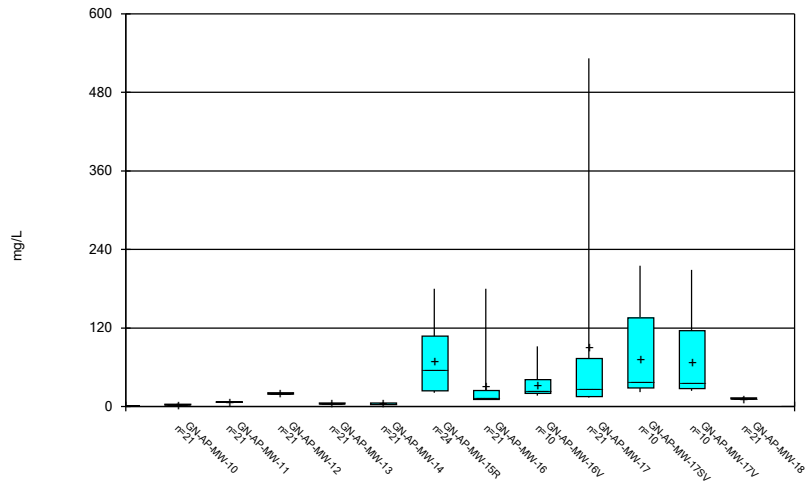
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



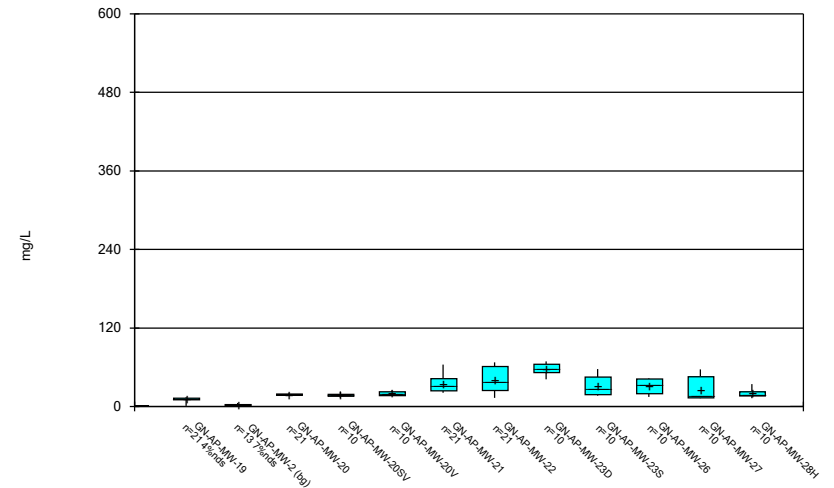
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



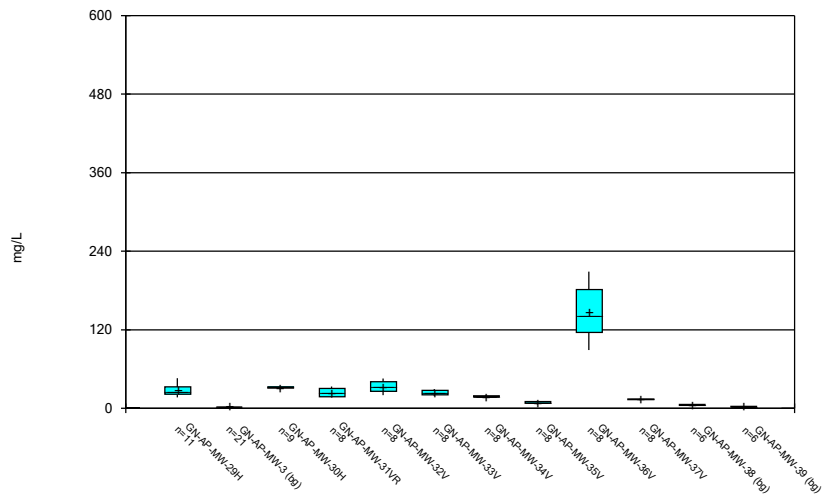
Constituent: Chloride Analysis Run 10/4/2023 4:02 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



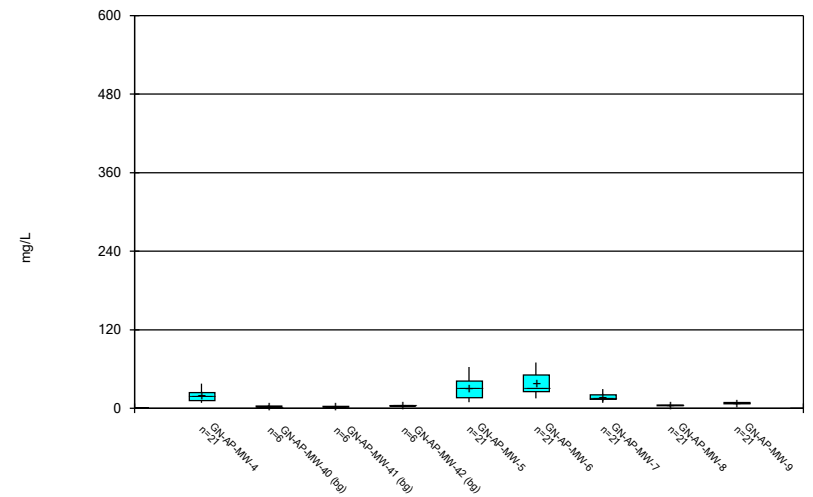
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



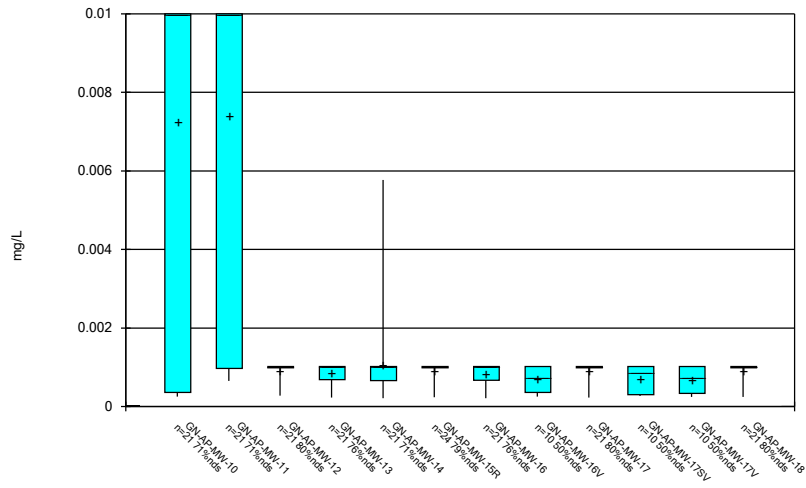
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



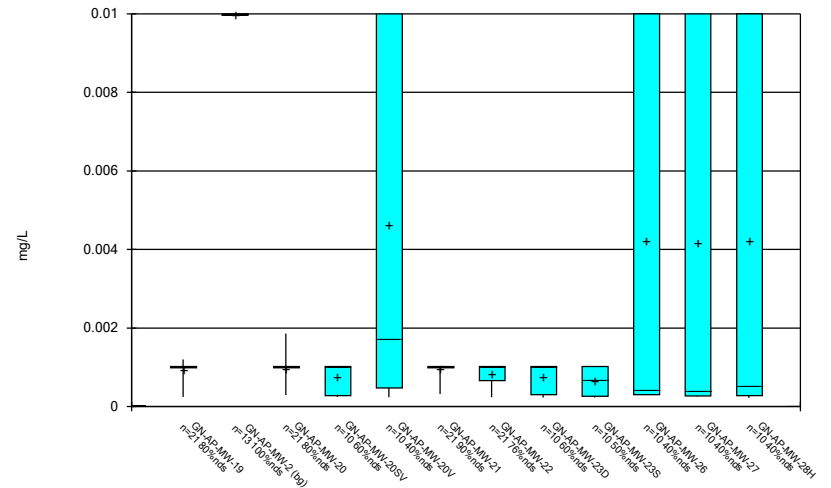
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



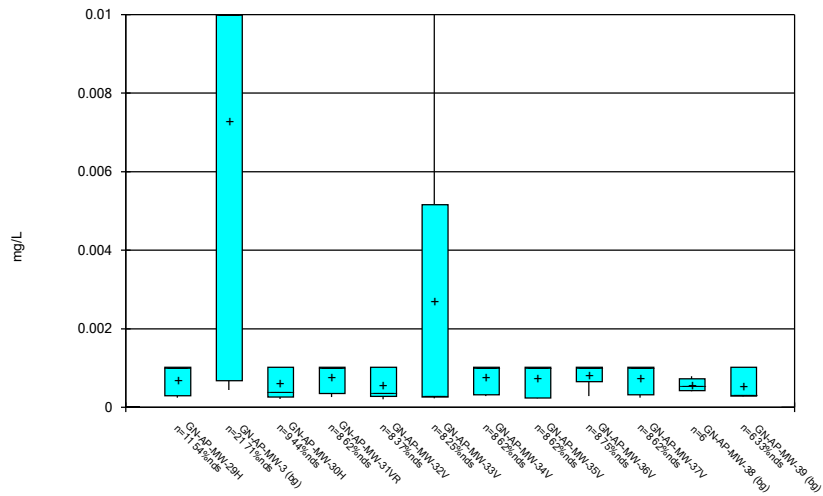
Constituent: Chromium Analysis Run 10/4/2023 4:02 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



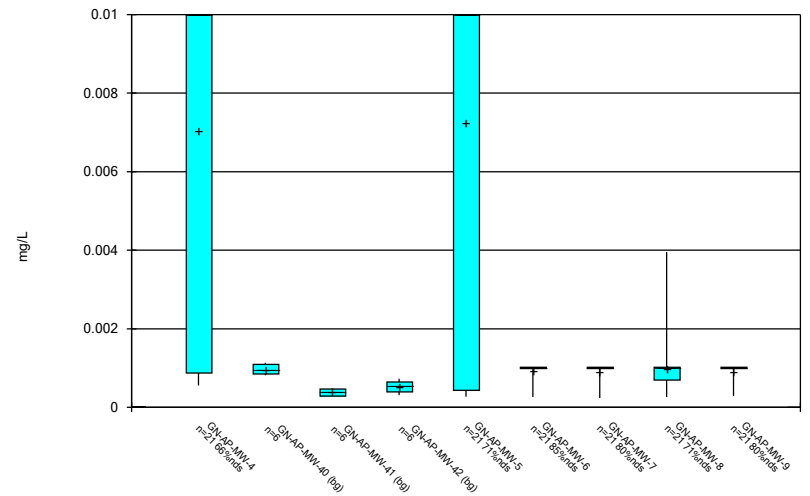
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



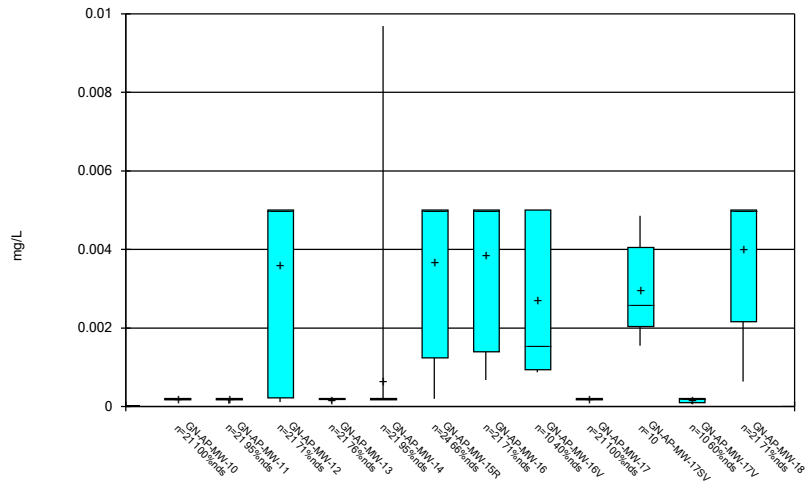
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



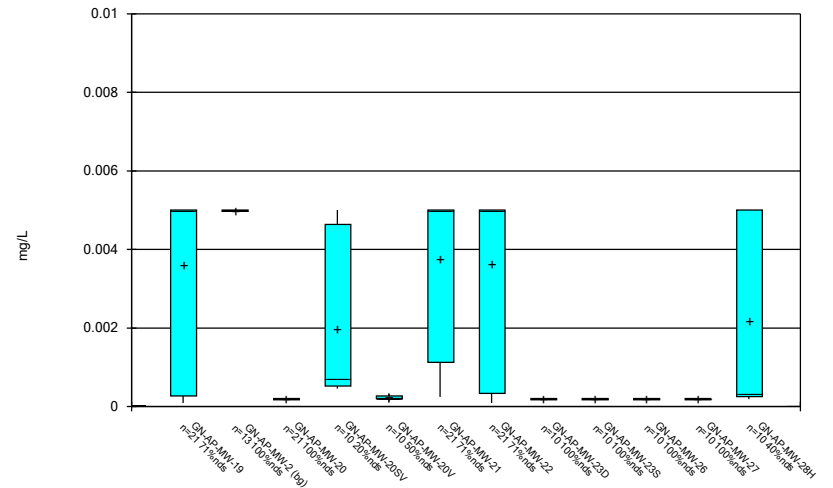
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



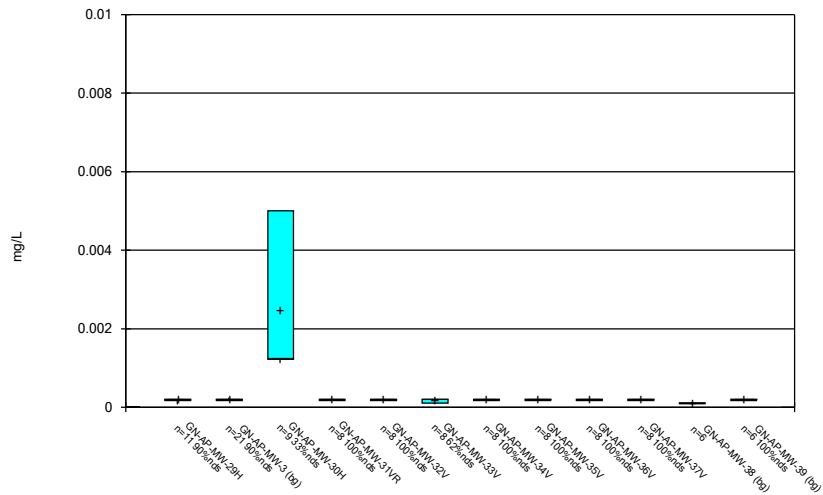
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



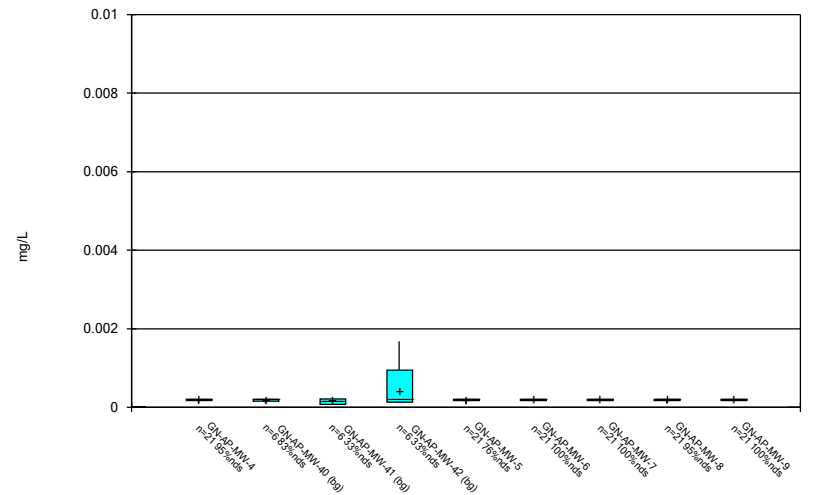
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



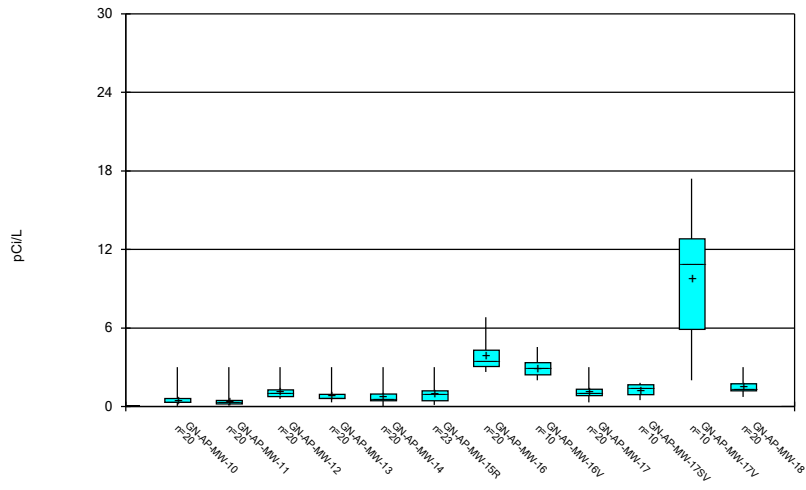
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



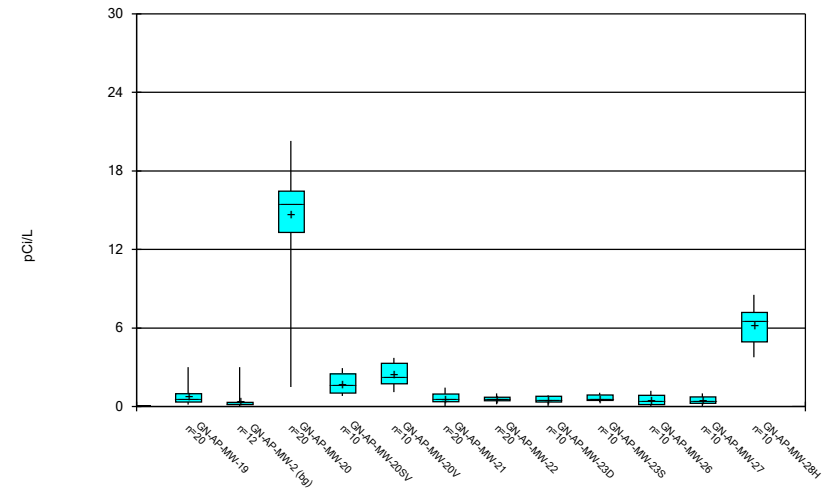
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



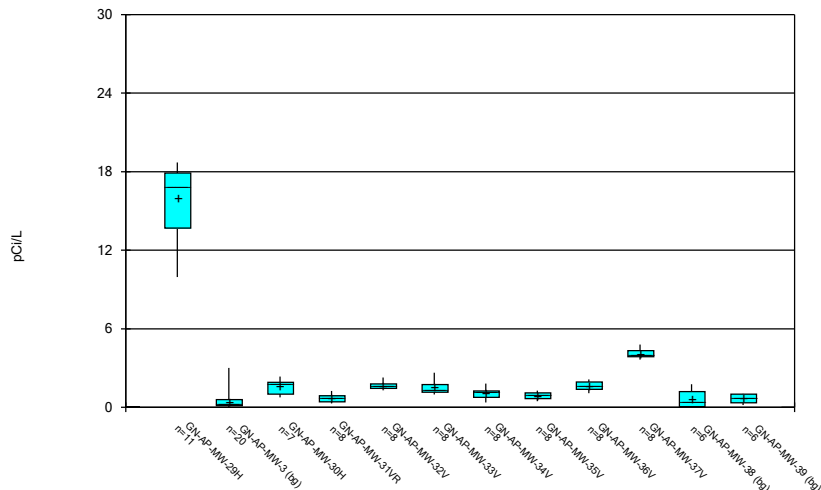
Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2023 4:03 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



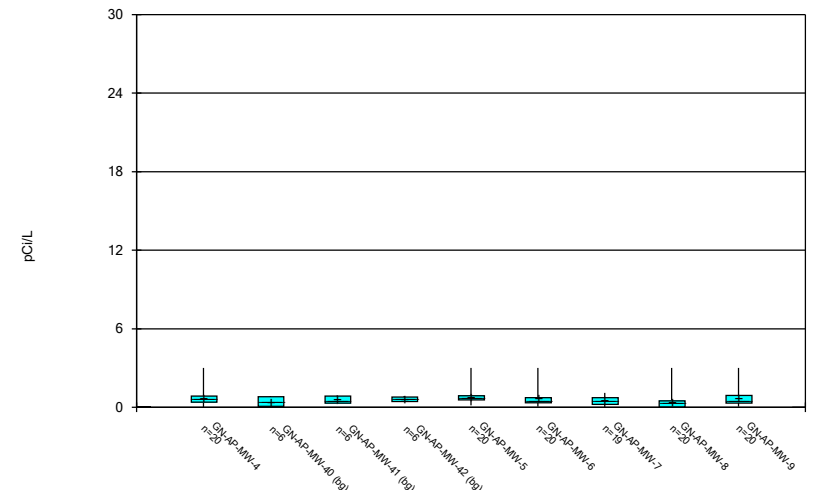
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



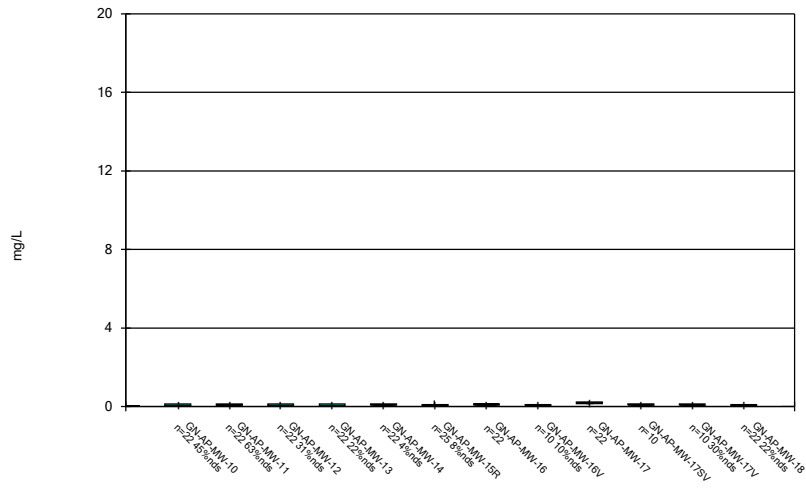
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



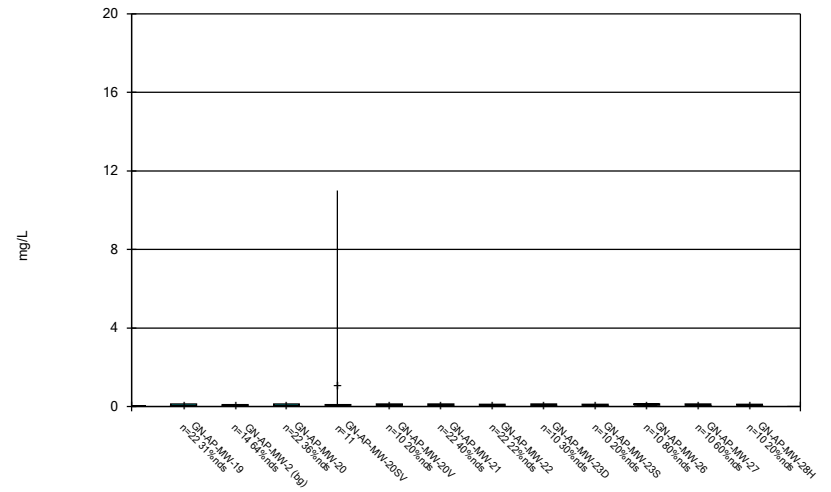
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



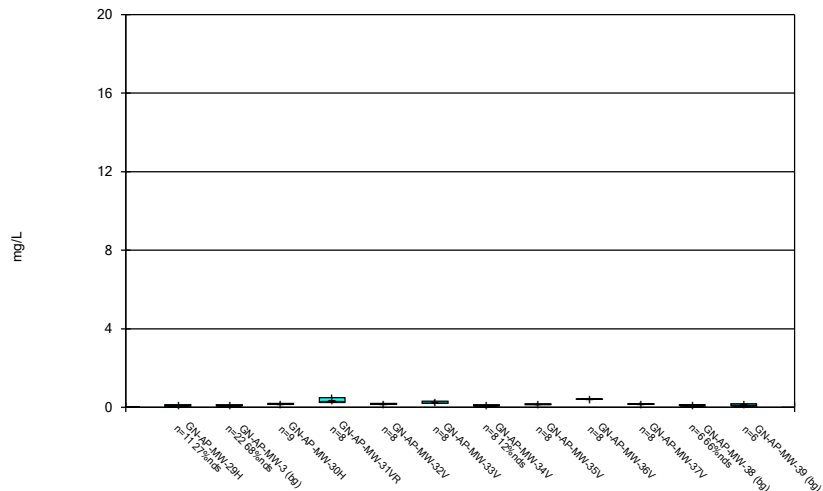
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



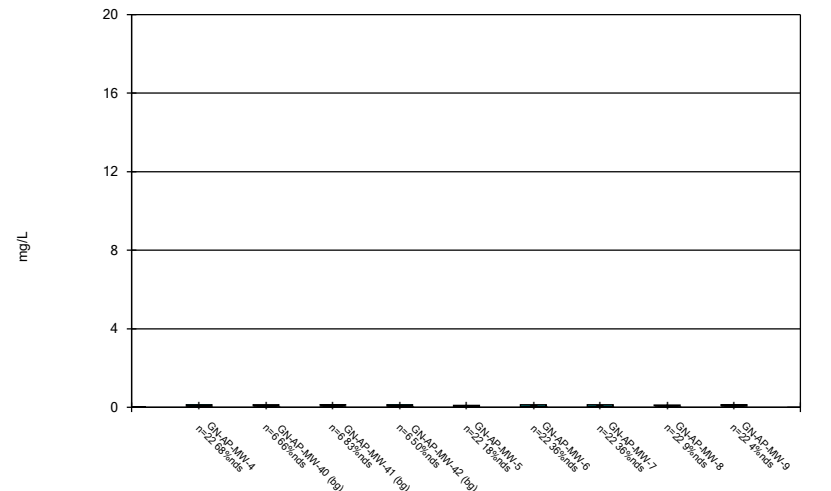
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Box & Whiskers Plot



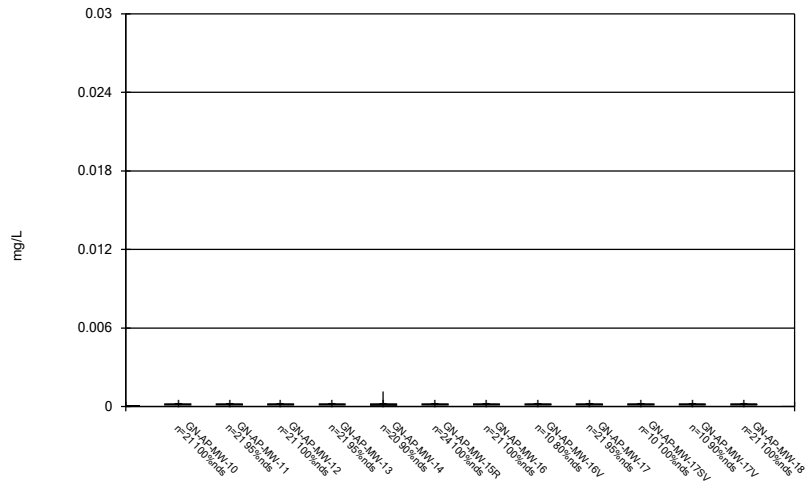
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



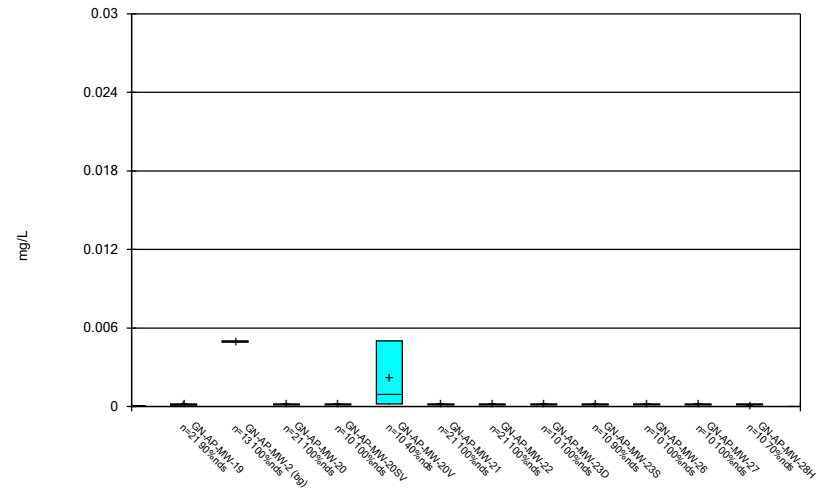
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



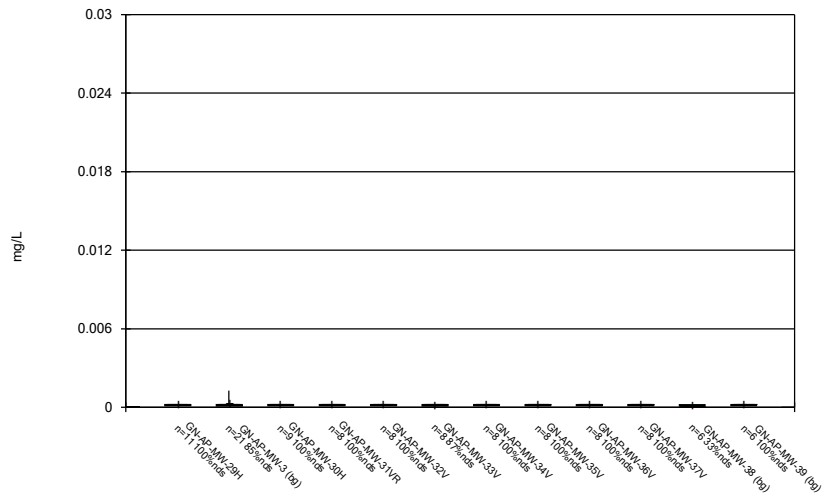
Constituent: Lead Analysis Run 10/4/2023 4:03 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



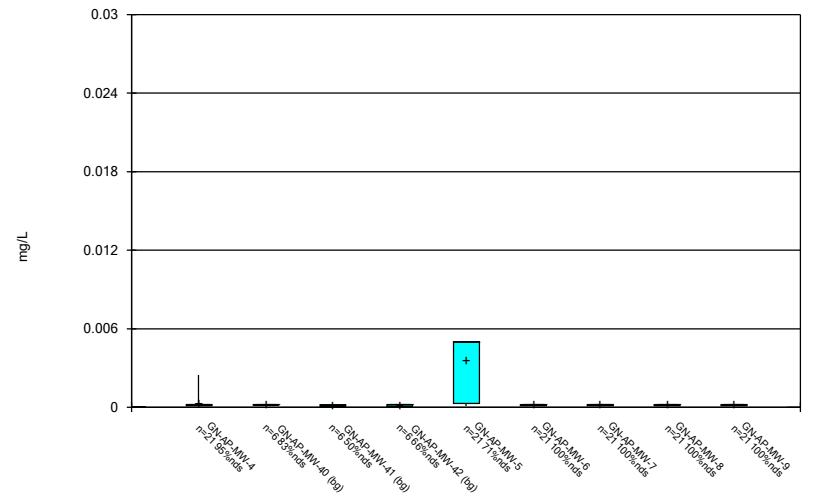
Constituent: Lead Analysis Run 10/4/2023 4:03 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



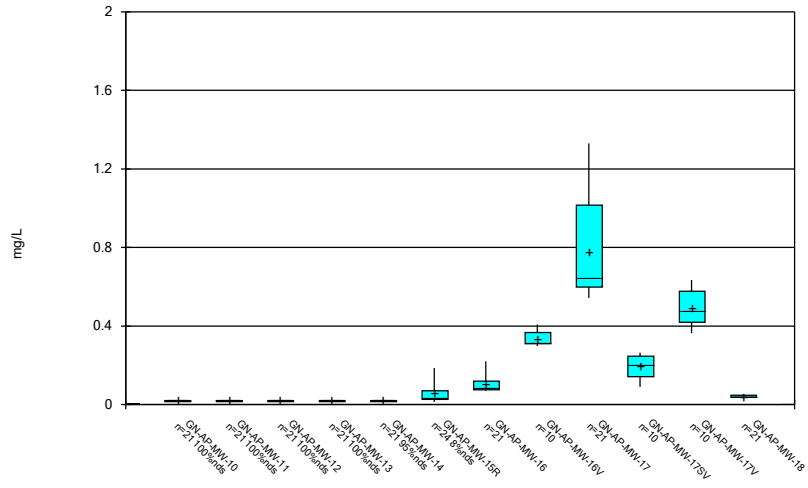
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



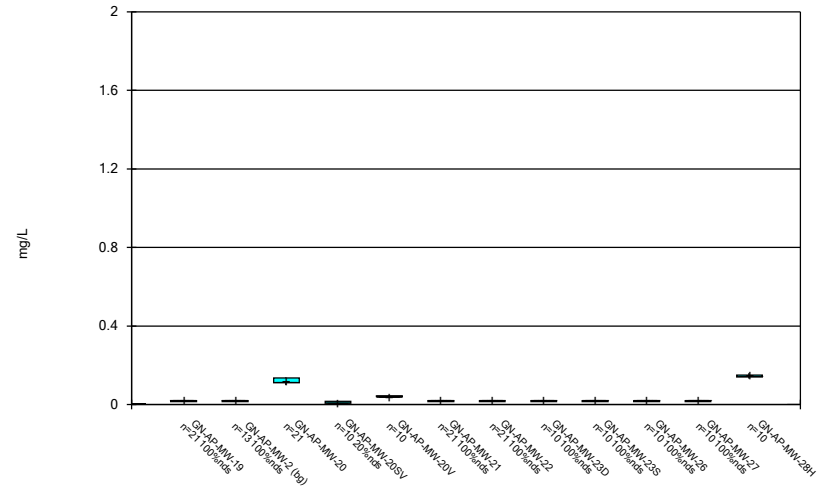
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



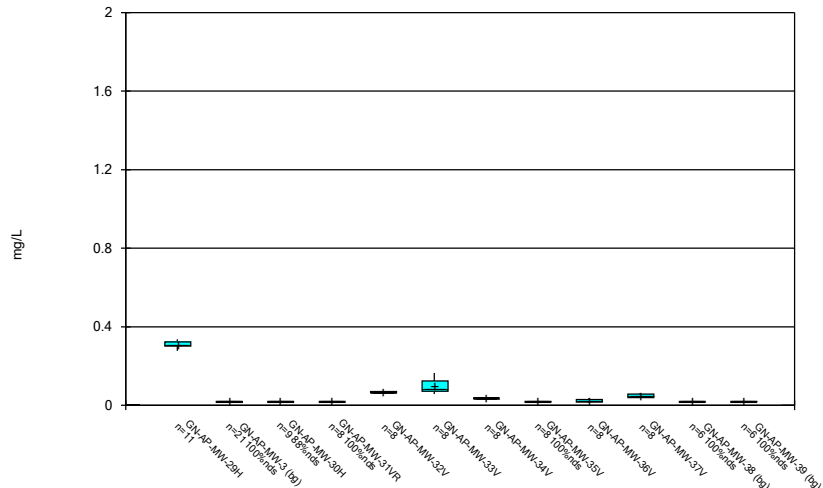
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



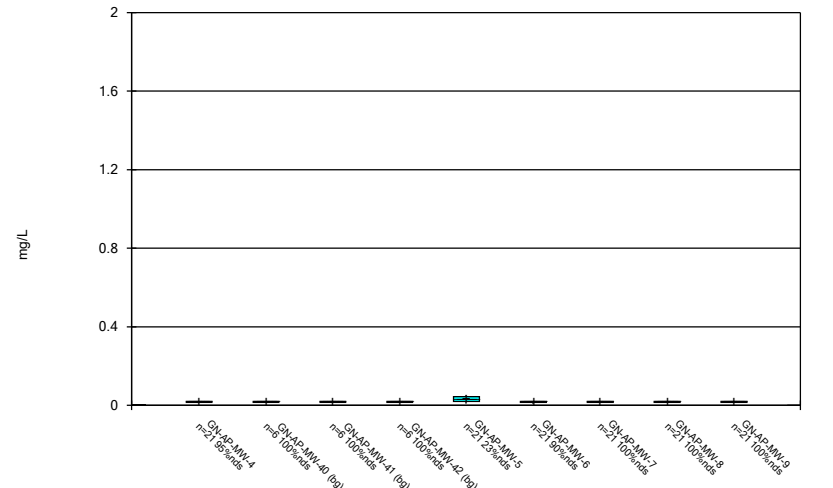
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



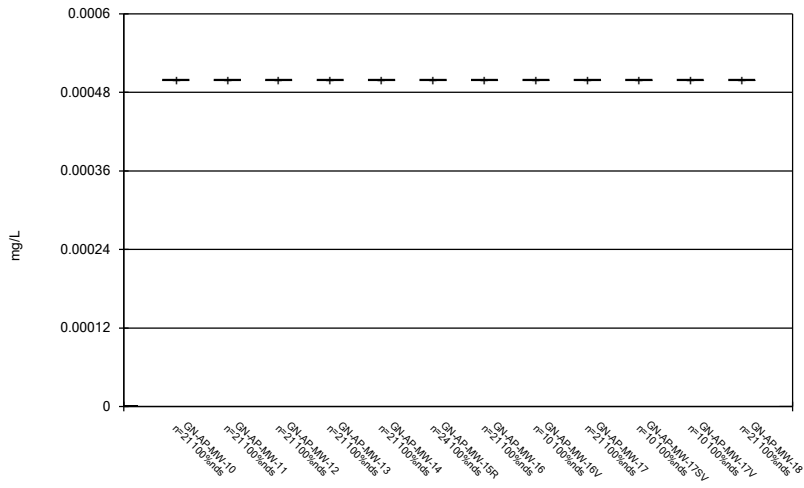
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



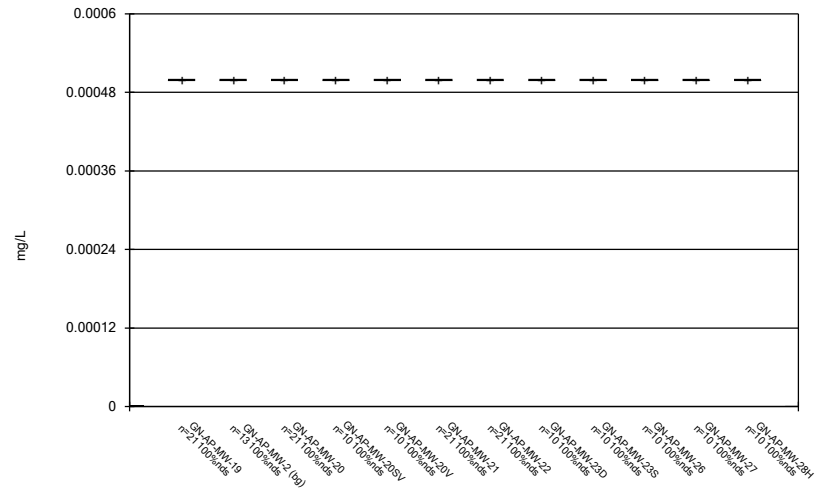
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



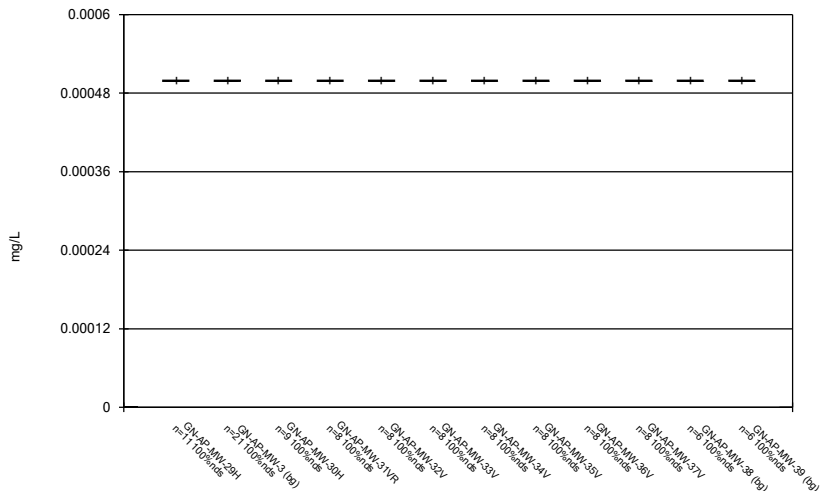
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



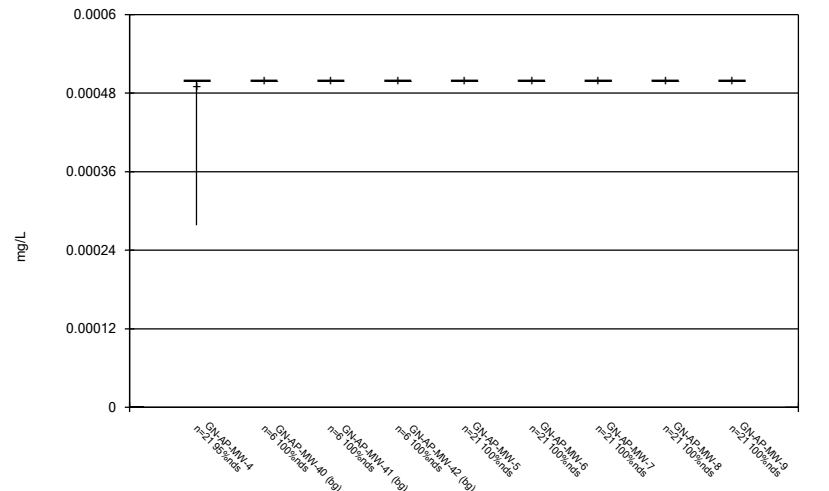
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



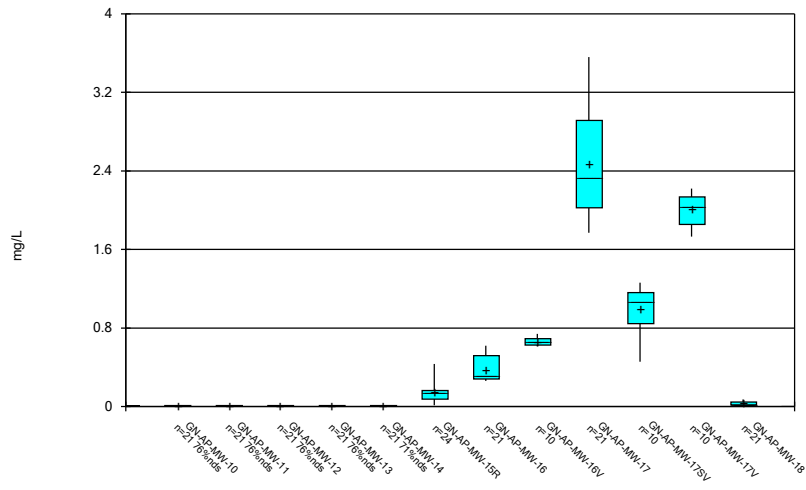
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



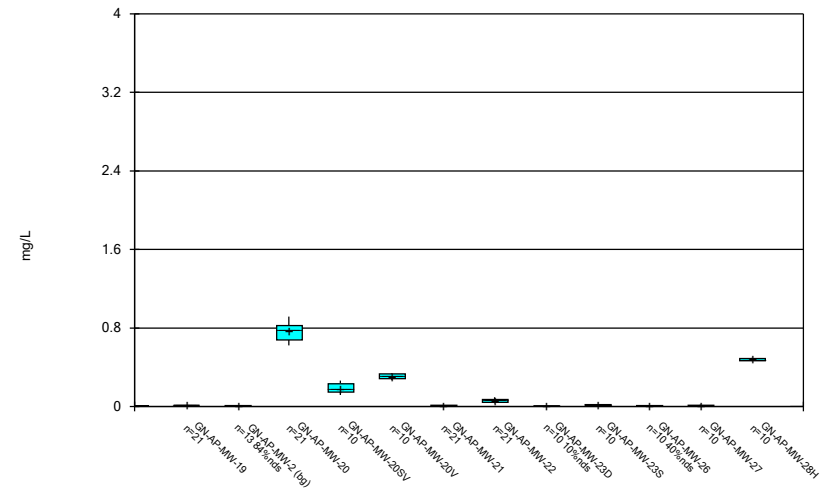
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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



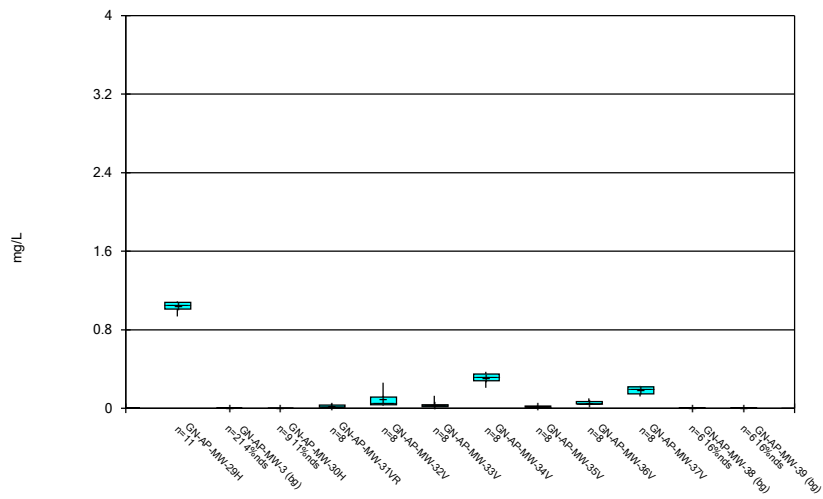
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



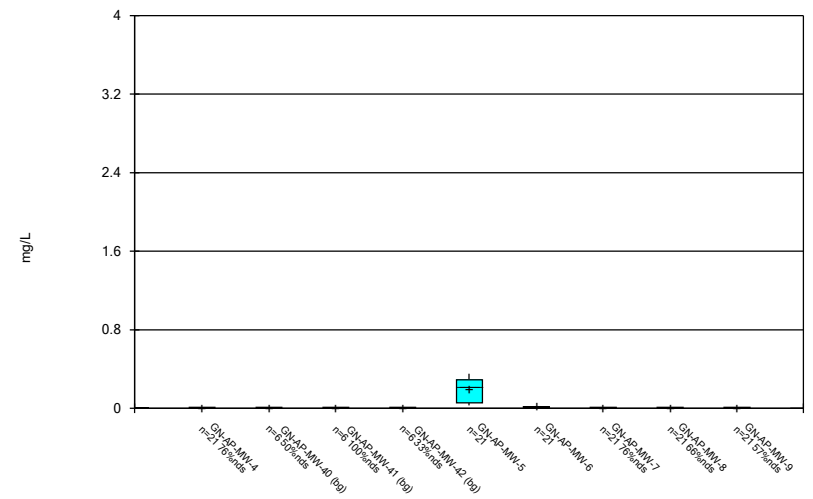
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



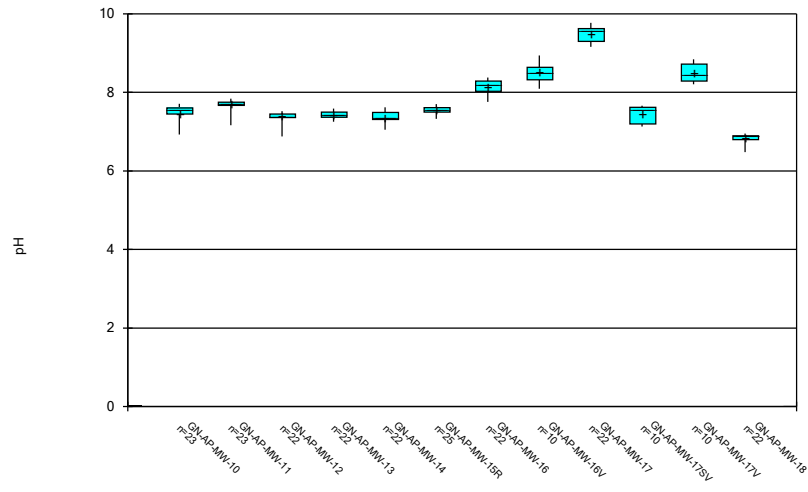
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



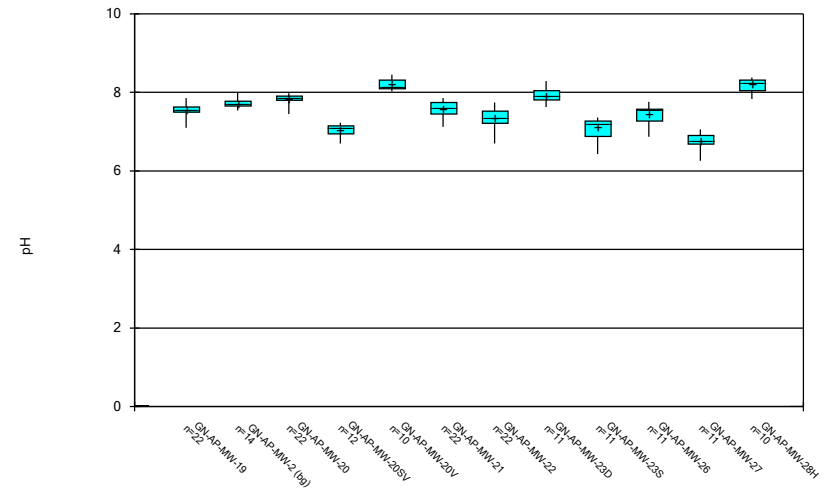
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



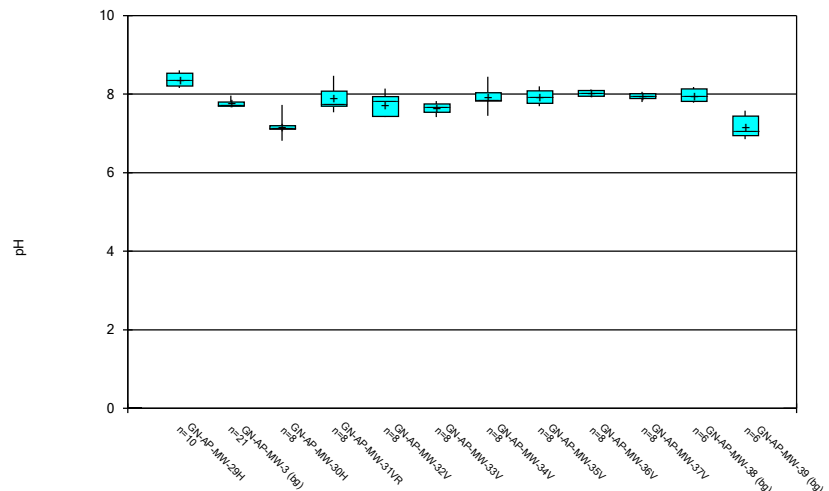
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



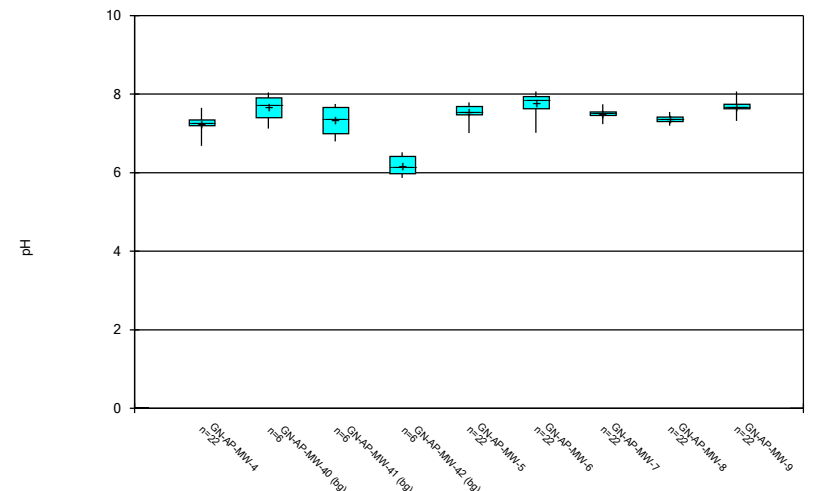
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



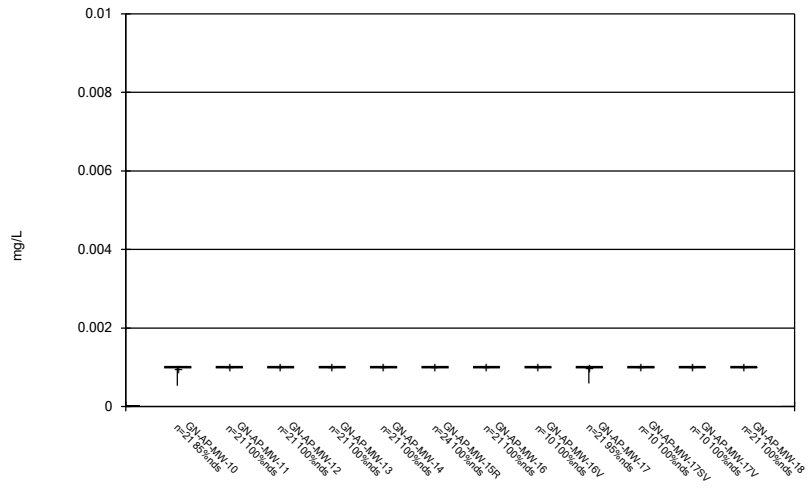
Constituent: pH Analysis Run 10/4/2023 4:03 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



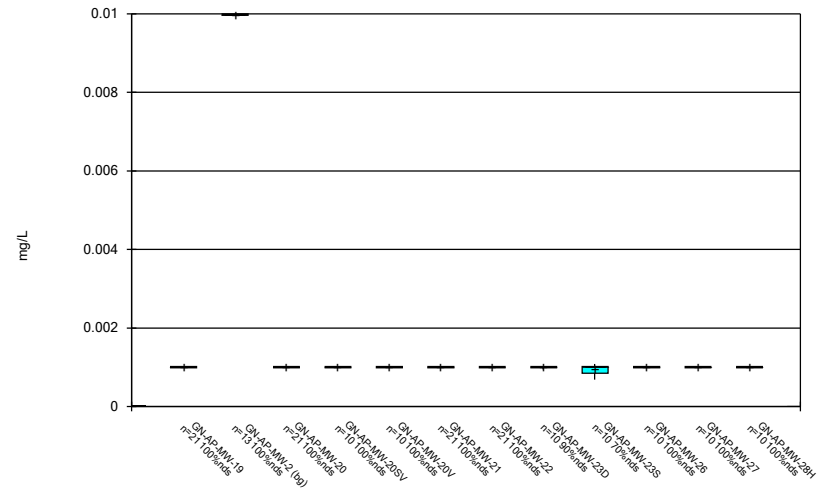
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



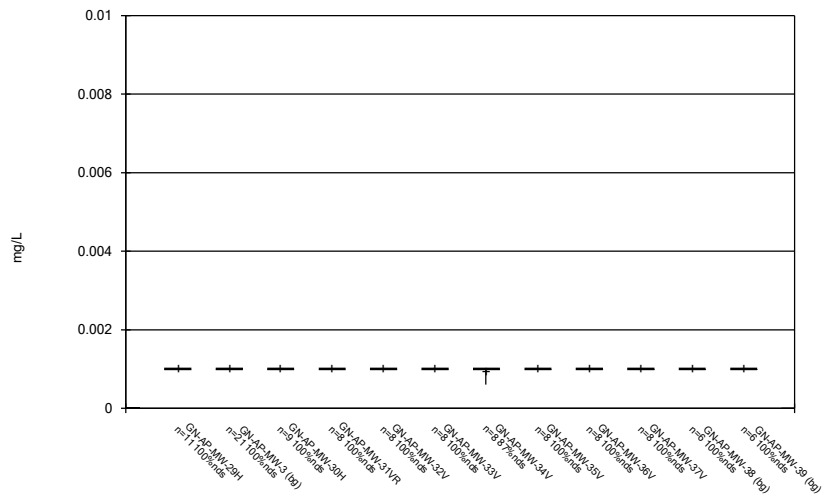
Constituent: Selenium Analysis Run 10/4/2023 4:03 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



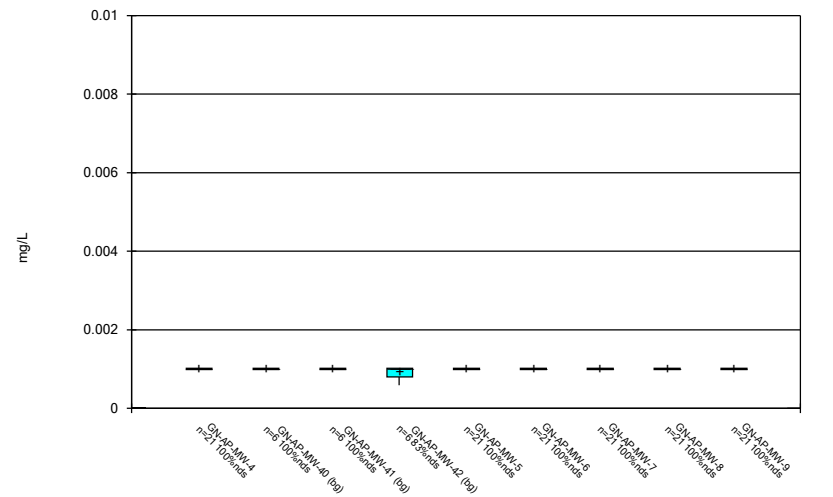
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



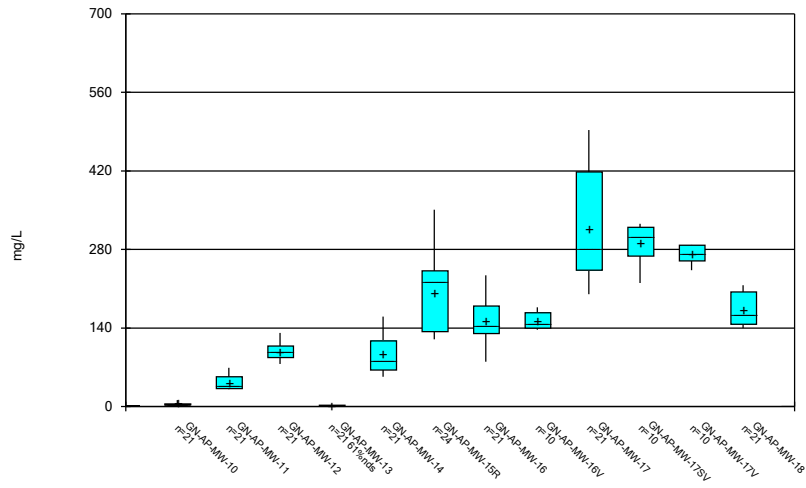
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



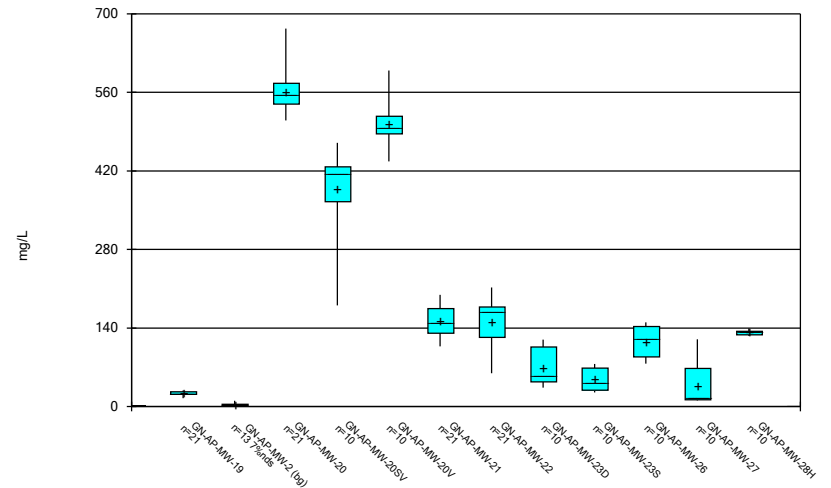
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Box & Whiskers Plot



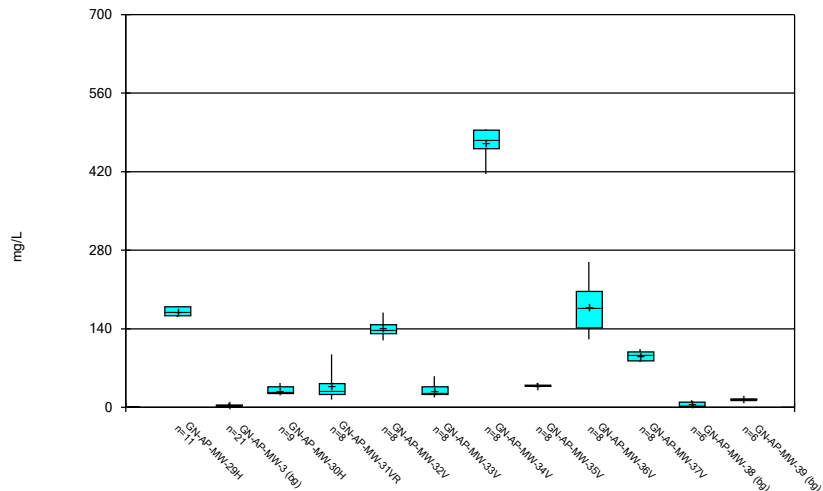
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



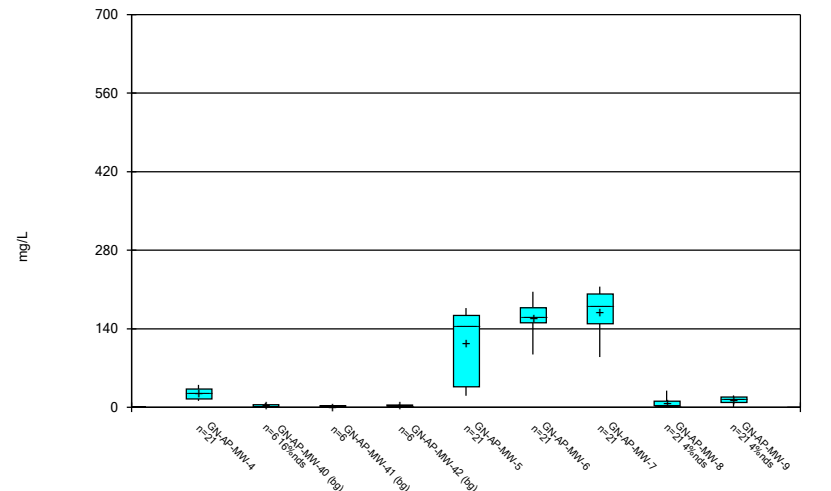
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



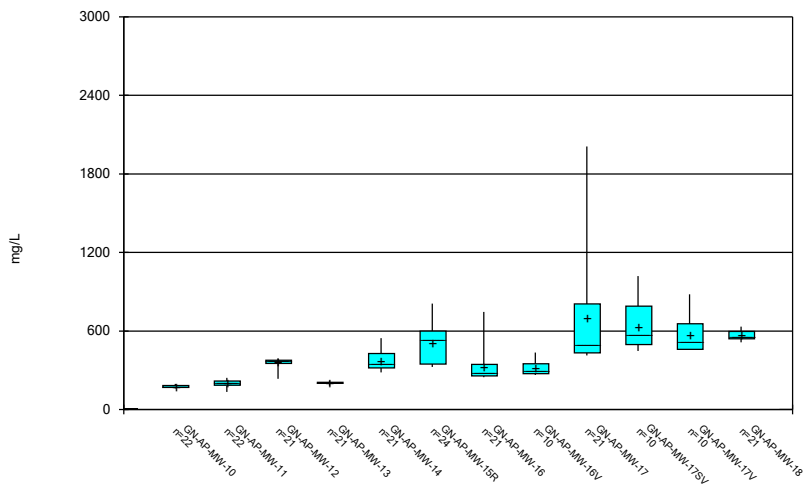
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



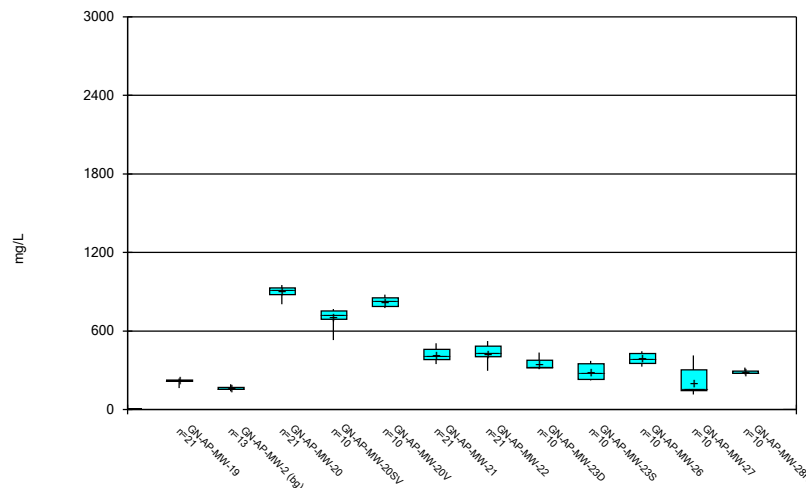
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



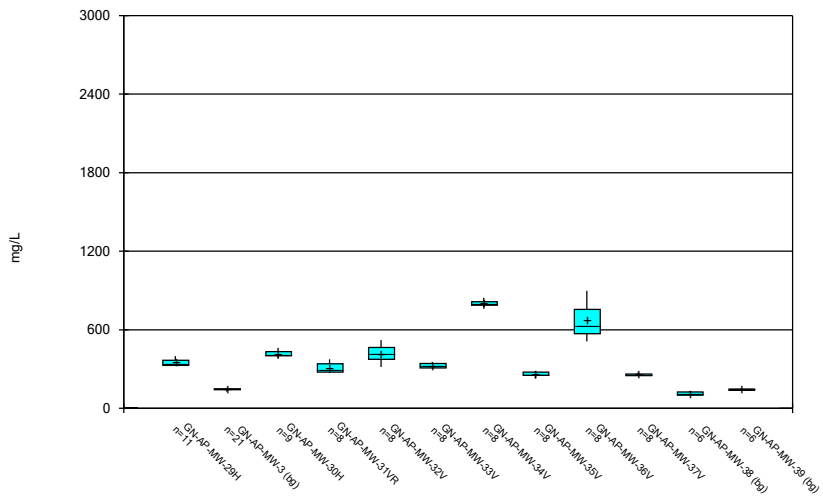
Constituent: TDS Analysis Run 10/4/2023 4:03 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



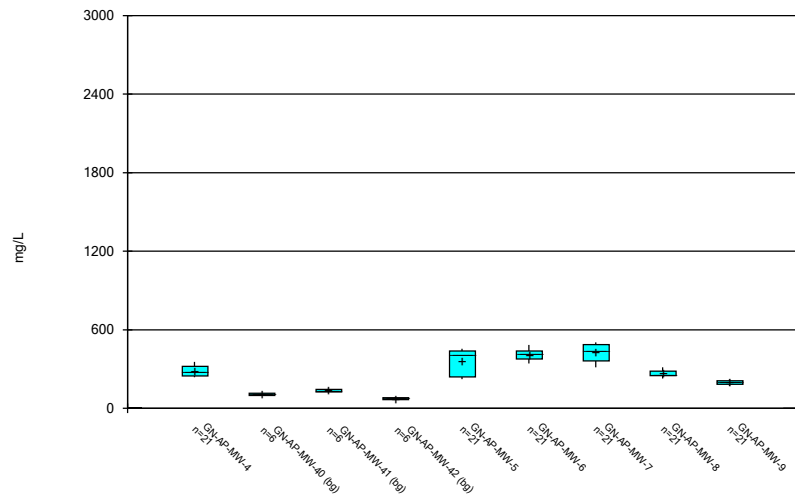
Constituent: TDS Analysis Run 10/4/2023 4:03 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



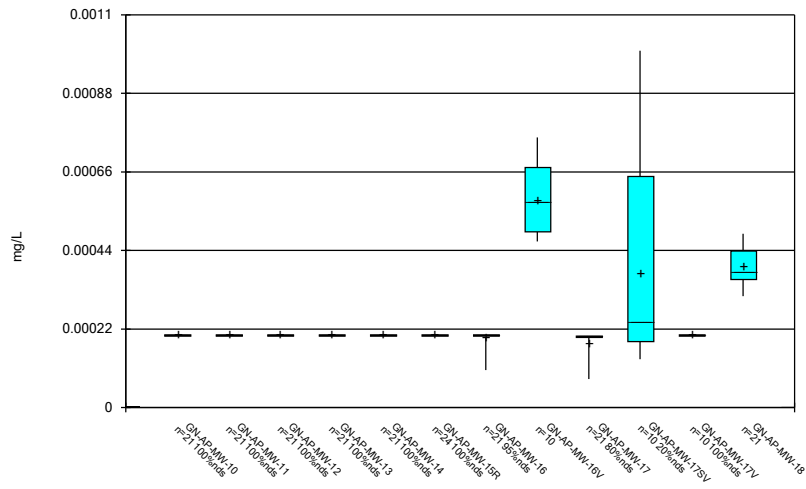
Constituent: TDS Analysis Run 10/4/2023 4:03 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



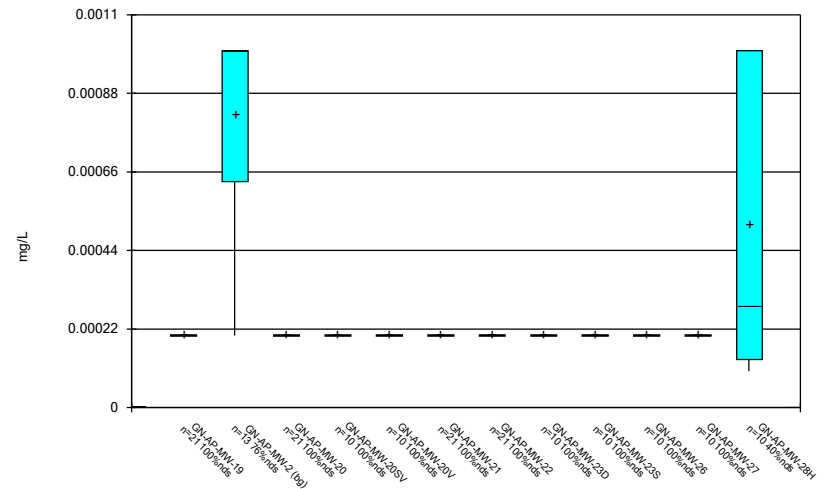
Constituent: TDS Analysis Run 10/4/2023 4:03 PM View: Constituents View
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



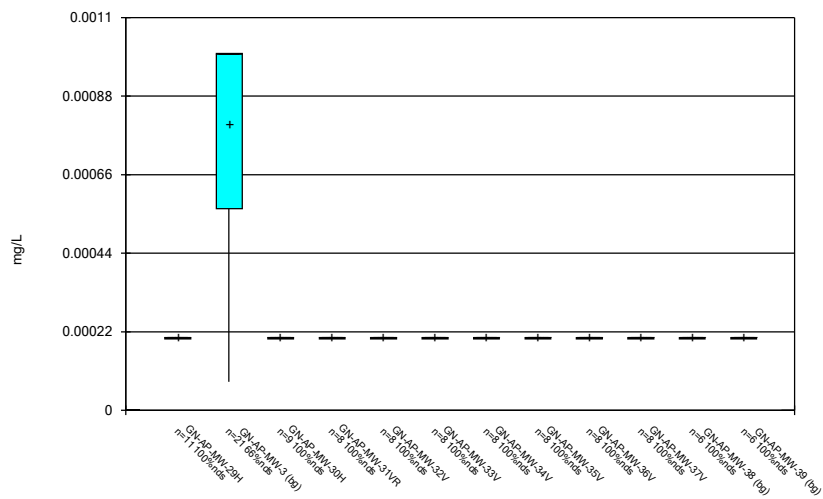
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



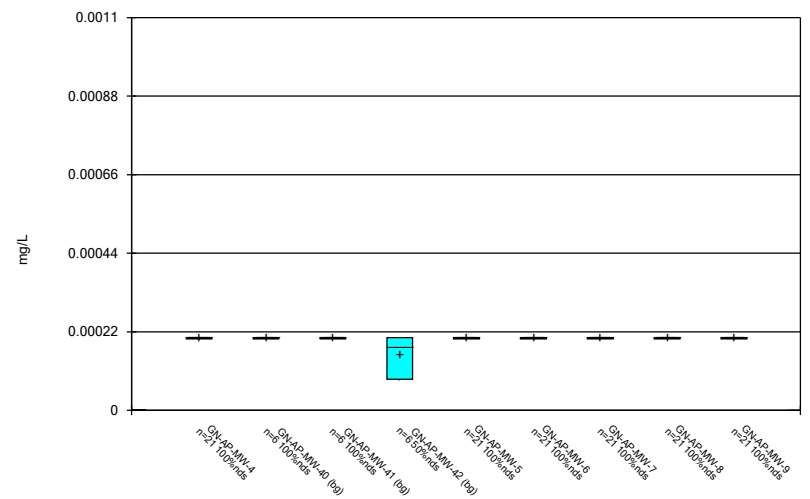
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 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/4/2023 4:03 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/4/2023 4:03 PM View: Constituents View
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

FIGURE C.

Outlier Summary

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 6:54 PM

GN-AP-MW-3 Calcium (mg/L)
GN-AP-MW-14 Lead (mg/L)
GN-AP-MW-3 pH (pH)

3/28/2016	0.0202 (o)
3/1/2017	<0.5 (o)
8/30/2022	9.22 (o)

Tukey's Outlier Test - Upgradient Wells - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 3:31 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-2,GN-AP-...	Yes	-0.125	NP	NaN	62	0.5006	0.5706	x^(1/3)	ShapiroFrancia
pH (pH)	GN-AP-MW-2,GN-AP-...	Yes	9.22,6.14,6.07,6.31,5.87,6.13	NP	NaN	66	7.546	0.5505	x^3	ShapiroFrancia

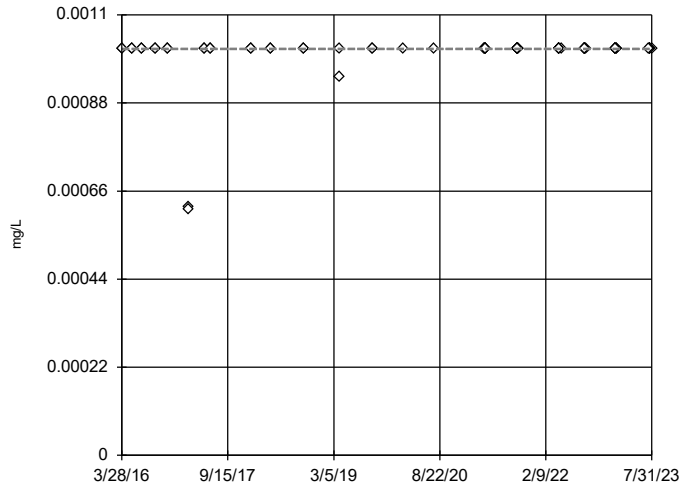
Tukey's Outlier Test - Upgradient Wells - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 3:31 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.001001	0.00007022	unknown	ShapiroFrancia
Arsenic (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.0002718	0.0002008	unknown	ShapiroFrancia
Barium (mg/L)	GN-AP-MW-2,GN-AP-...	No	n/a	NP	NaN	64	0.01393	0.007027	ln(x)	ShapiroFrancia
Beryllium (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.001015	0	unknown	ShapiroFrancia
Boron (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.1004	0.008412	unknown	ShapiroFrancia
Cadmium (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.0002089	0.00008469	unknown	ShapiroFrancia
Calcium (mg/L)	GN-AP-MW-2,GN-AP-...	No	n/a	NP	NaN	64	27.79	7.665	x^3	ShapiroFrancia
Chloride (mg/L)	GN-AP-MW-2,GN-AP-...	No	n/a	NP	NaN	64	2.63	1.149	ln(x)	ShapiroFrancia
Chromium (mg/L)	GN-AP-MW-2,GN-AP-...	No	n/a	NP	NaN	64	0.0007758	0.0002859	sqrt(x)	ShapiroFrancia
Cobalt (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.0002086	0.000191	unknown	ShapiroFrancia
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-2,GN-AP-...	Yes	-0.125	NP	NaN	62	0.5006	0.5706	x^(1/3)	ShapiroFrancia
Fluoride (mg/L)	GN-AP-MW-2,GN-AP-...	No	n/a	NP	NaN	66	0.107	0.0332	x^2	ShapiroFrancia
Lead (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.000218	0.0001646	unknown	ShapiroFrancia
Lithium (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.02	0	unknown	ShapiroFrancia
Mercury (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.0005	0	unknown	ShapiroFrancia
Molybdenum (mg/L)	GN-AP-MW-2,GN-AP-...	No	n/a	NP	NaN	64	0.006128	0.004013	normal	ShapiroFrancia
pH (pH)	GN-AP-MW-2,GN-AP-...	Yes	9.22,6.14,6.07,6.31,5.87,6.13	NP	NaN	66	7.546	0.5505	x^3	ShapiroFrancia
Selenium (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.001008	0.00005388	unknown	ShapiroFrancia
Sulfate (mg/L)	GN-AP-MW-2,GN-AP-...	No	n/a	NP	NaN	64	4.119	3.651	ln(x)	ShapiroFrancia
TDS (mg/L)	GN-AP-MW-2,GN-AP-...	No	n/a	NP	NaN	64	133.5	27.4	x^2	ShapiroFrancia
Thallium (mg/L)	GN-AP-MW-2,GN-AP-...	n/a	n/a	NP	NaN	64	0.0002229	0.0000992	unknown	ShapiroFrancia

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

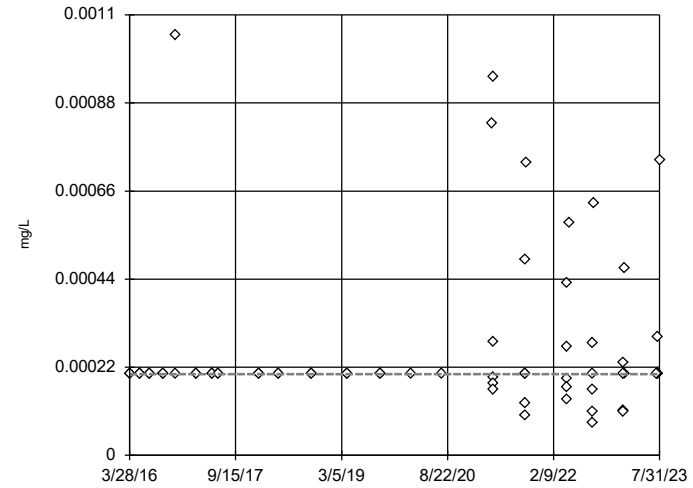


n = 64
 No outliers found. Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 10/4/2023 3:28 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

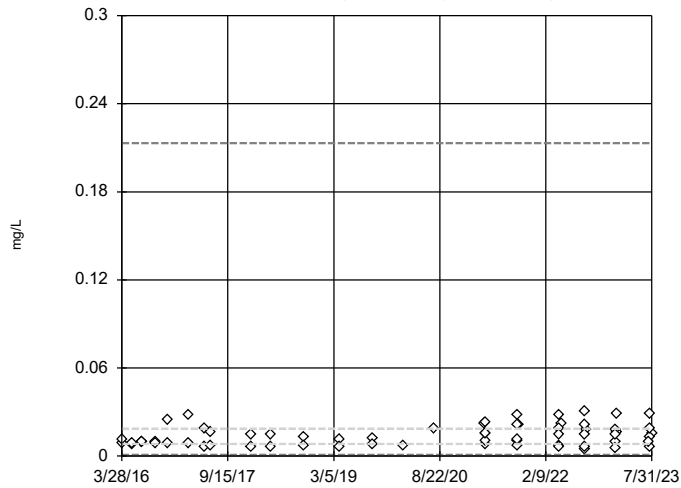


n = 64
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 10/4/2023 3:28 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

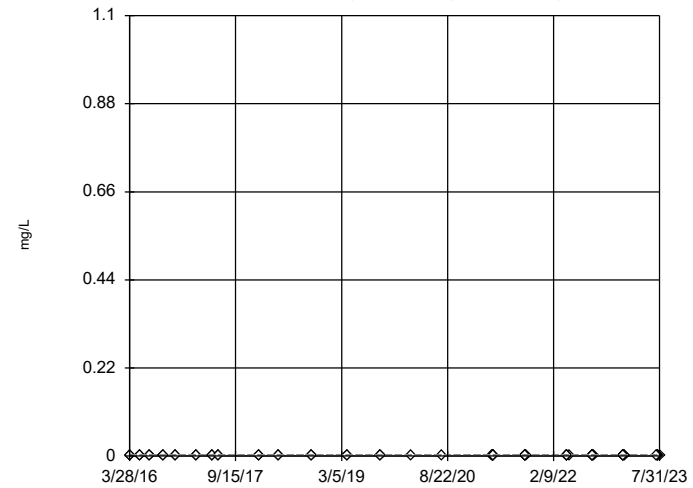


n = 64
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.2132, low cutoff = 0.0007198, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 10/4/2023 3:28 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

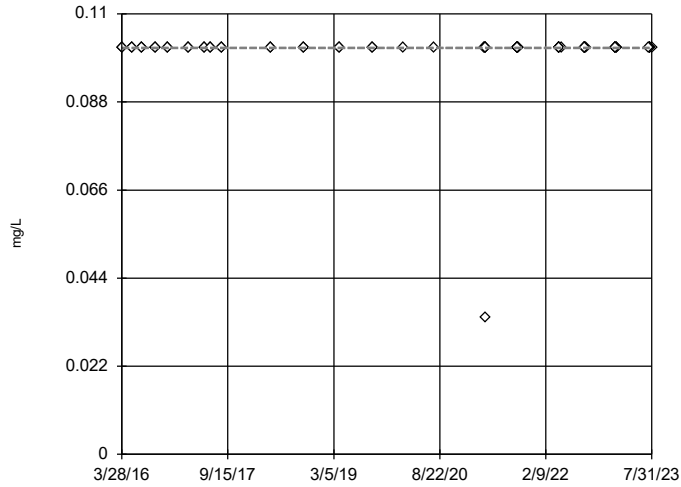


n = 64
 No outliers found. Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality, analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 10/4/2023 3:28 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

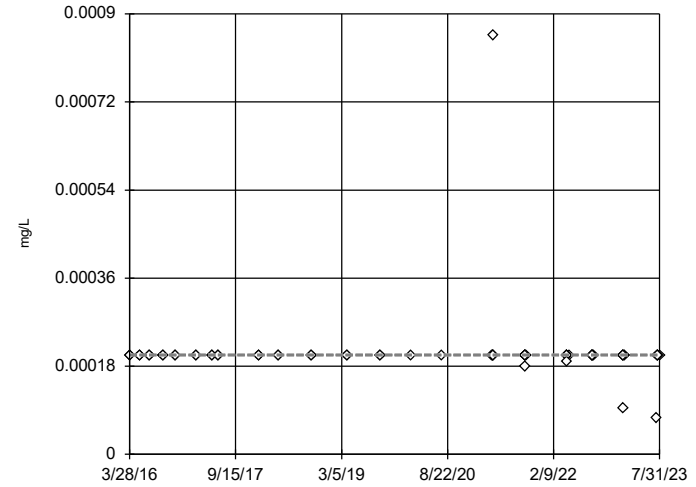


n = 64
 No outliers found. Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Boron Analysis Run 10/4/2023 3:28 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

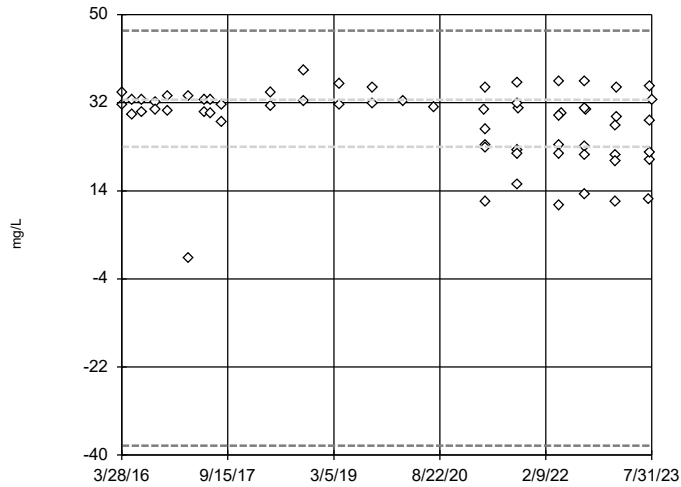


n = 64
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 10/4/2023 3:28 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

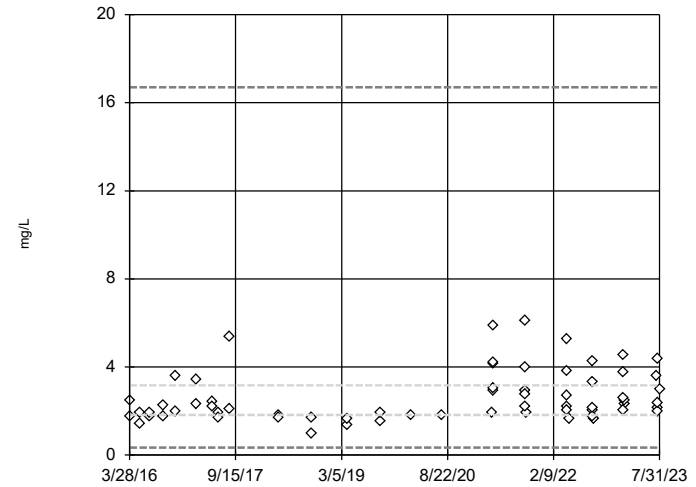


n = 64
 No outliers found. Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 46.74, low cutoff = -38.09, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 10/4/2023 3:28 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

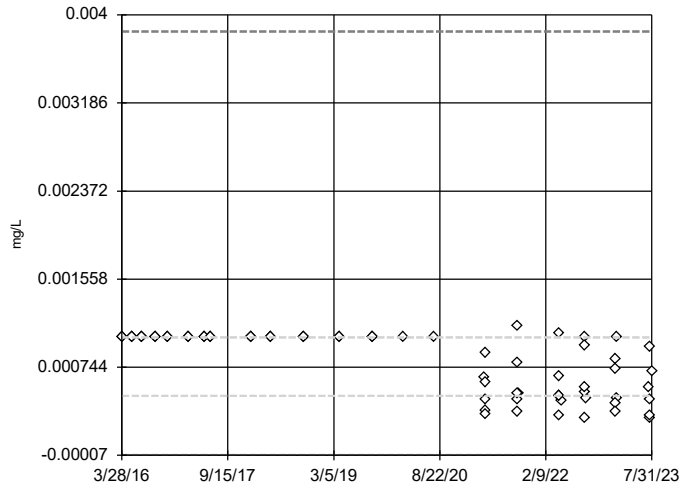


n = 64
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 16.7, low cutoff = 0.3452, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 10/4/2023 3:28 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

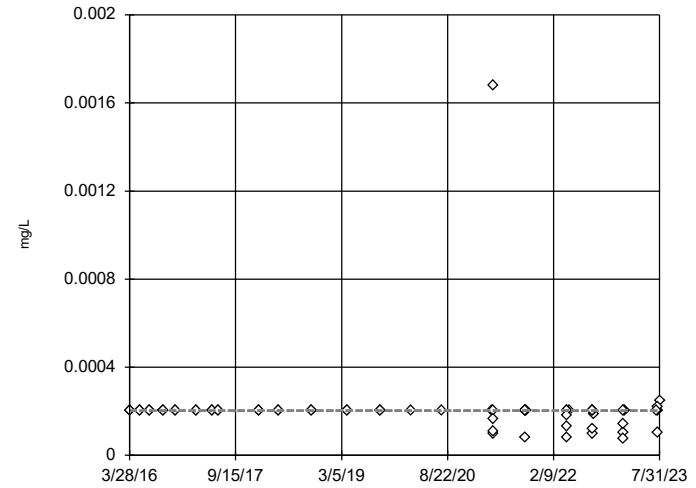


n = 64
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.003847, low cutoff = -0.0006686, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

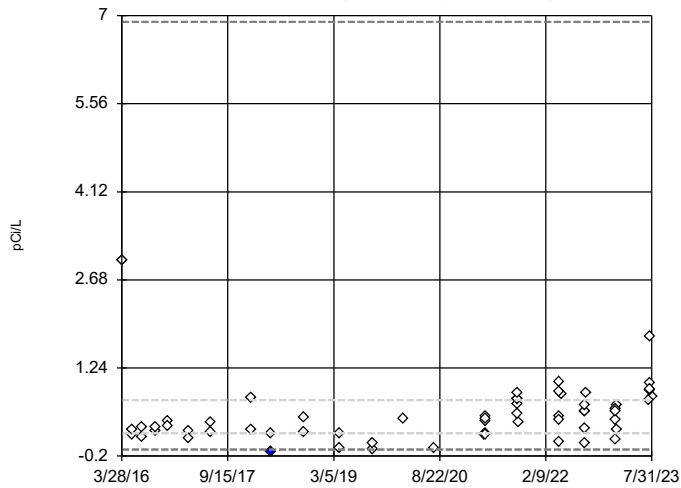


n = 64
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

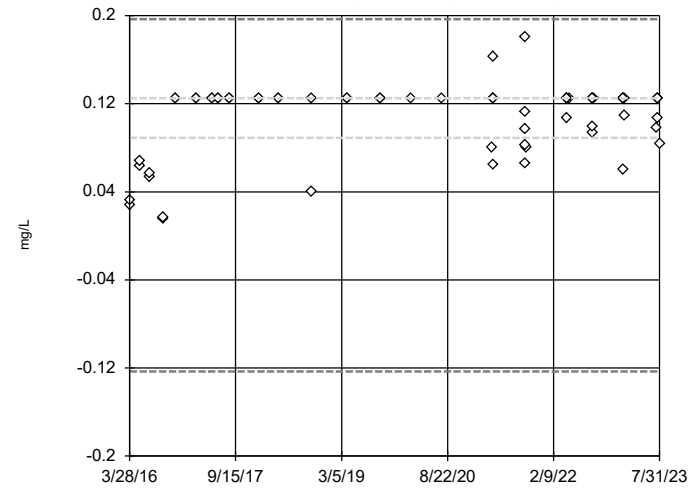


n = 62
 Outlier is drawn as solid.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 6.898, low cutoff = -0.09213, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Well
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

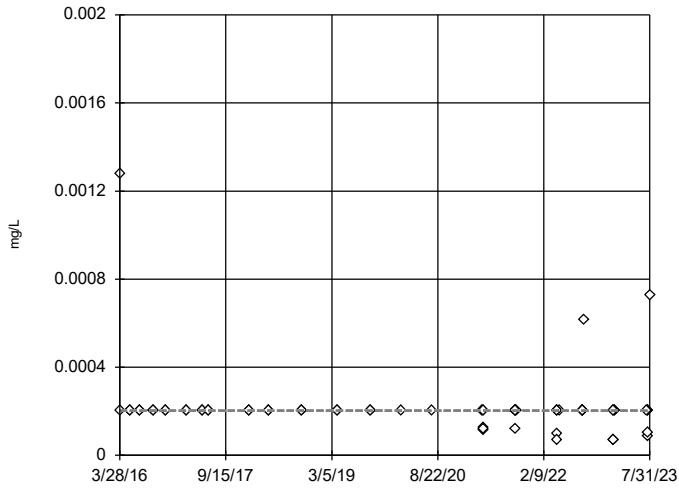


n = 66
 No outliers found.
 Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.1968, low cutoff = -0.1232, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

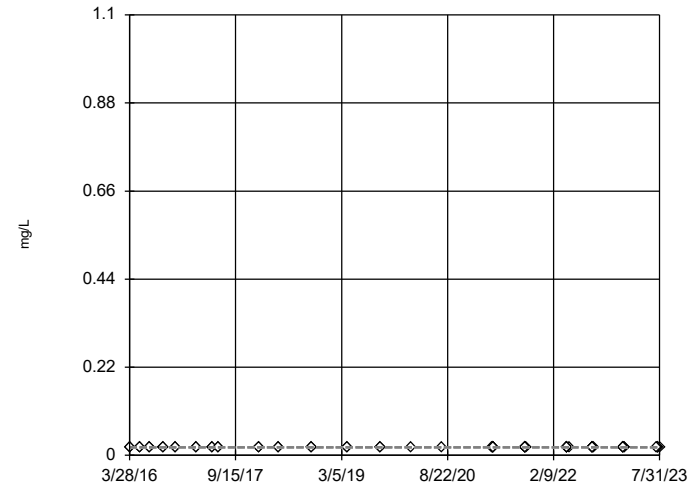


n = 64
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

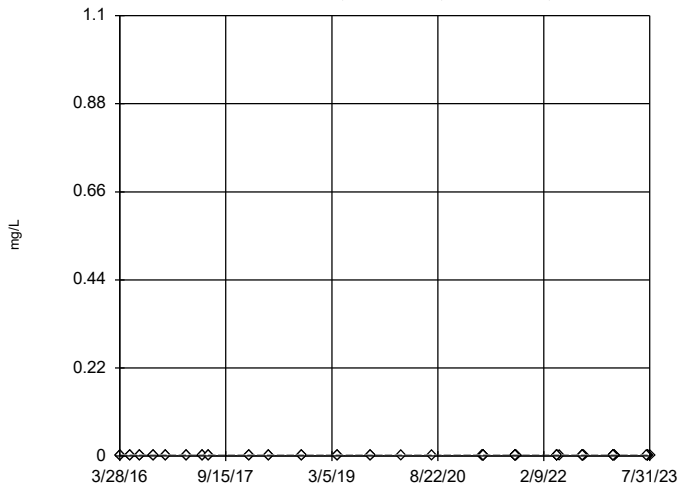


n = 64
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

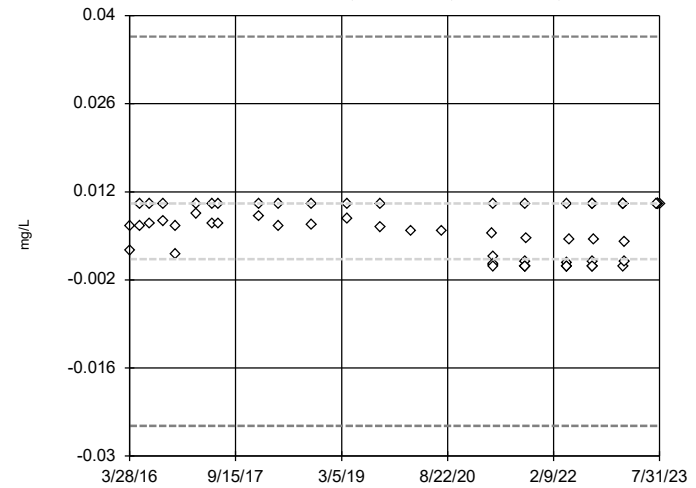


n = 64
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

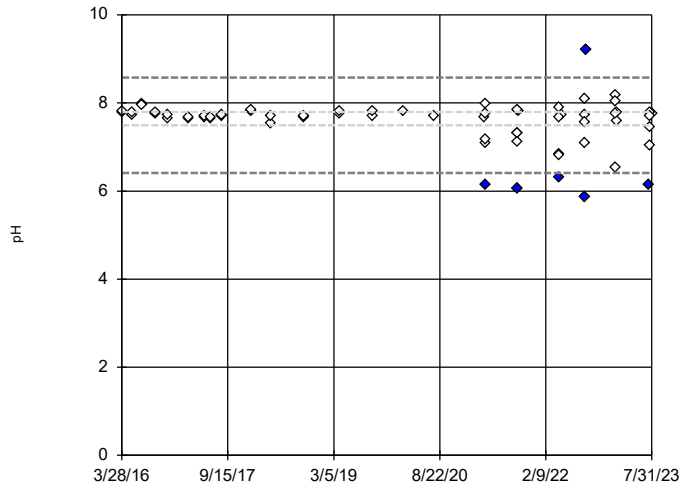


n = 64
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 0.03666, low cutoff = -0.0252, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

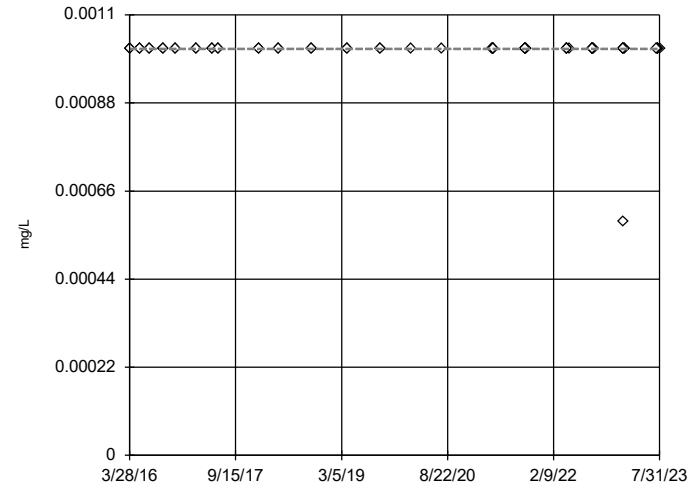


n = 66
 Outliers are drawn as solid.
 Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.579, low cutoff = 6.41, based on IQR multiplier of 3.

Constituent: pH Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

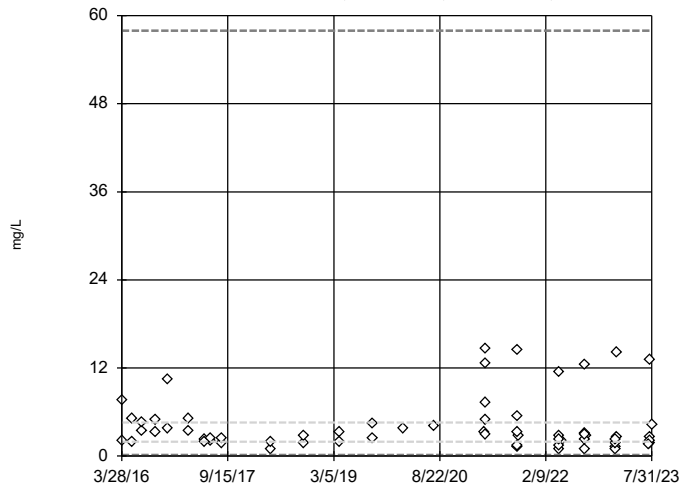


n = 64
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...

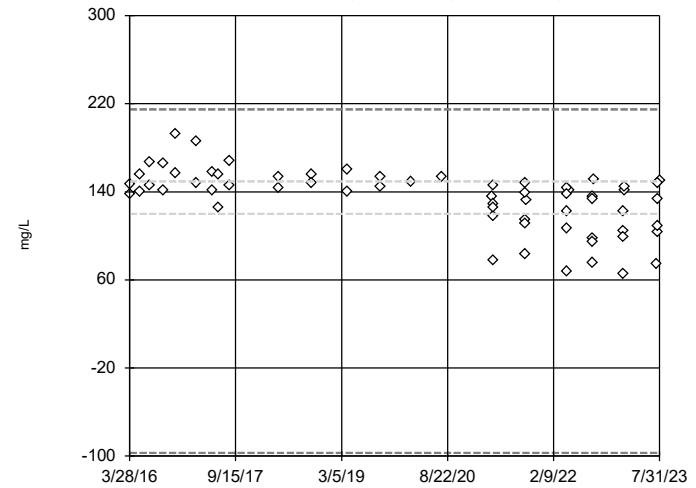


n = 64
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 57.95, low cutoff = 0.1545, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

GN-AP-MW-2,GN-AP-MW-3,GN-AP-MW-38,GN-...



n = 64
 No outliers found.
 Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 214.9, low cutoff = -97.14, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 10/4/2023 3:29 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tukey's Outlier Screening, Pooled Background

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.001015	<0.001015					
5/17/2016		<0.001015					
5/18/2016	<0.001015						
7/11/2016	<0.001015	<0.001015					
9/14/2016	<0.001015	<0.001015					
11/16/2016	<0.001015	<0.001015					
3/1/2017	0.00062 (J)	0.000613 (J)					
5/23/2017	<0.001015	<0.001015					
6/19/2017	<0.001015	<0.001015					
1/10/2018	<0.001015	<0.001015					
4/19/2018	<0.001015	<0.001015					
10/3/2018	<0.001015	<0.001015					
4/1/2019	0.000946 (J)						
4/2/2019		<0.001015					
9/17/2019		<0.001015					
9/18/2019	<0.001015						
2/19/2020		<0.001015					
7/27/2020		<0.001015					
4/5/2021		<0.001015					
4/12/2021			<0.001015	<0.001015	<0.001015	<0.001015	
4/13/2021							<0.001015
9/21/2021			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/27/2021	<0.001015						
4/19/2022			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/3/2022	<0.001015						
8/29/2022			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/30/2022	<0.001015						
2/1/2023			<0.001015		<0.001015	<0.001015	<0.001015
2/7/2023	<0.001015		<0.001015				
7/18/2023							<0.001015
7/19/2023			<0.001015	<0.001015	<0.001015	<0.001015	
7/31/2023	<0.001015						

Tukey's Outlier Screening, Pooled Background

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.000203	<0.000203					
5/17/2016		<0.000203					
5/18/2016	<0.000203						
7/11/2016	<0.000203	<0.000203					
9/14/2016	<0.000203	<0.000203					
11/16/2016	0.00105 (J)	<0.000203					
3/1/2017	<0.000203	<0.000203					
5/23/2017	<0.000203	<0.000203					
6/19/2017	<0.000203	<0.000203					
1/10/2018	<0.000203	<0.000203					
4/19/2018	<0.000203	<0.000203					
10/3/2018	<0.000203	<0.000203					
4/1/2019	<0.000203						
4/2/2019		<0.000203					
9/17/2019		<0.000203					
9/18/2019	<0.000203						
2/19/2020		<0.000203					
7/27/2020		<0.000203					
4/5/2021		0.000829					
4/12/2021			0.000283	0.000946	0.000195 (J)	0.000179 (J)	
4/13/2021							0.000163 (J)
9/21/2021			0.00013 (J)	0.00049	0.0001 (J)	<0.000203	<0.000203
9/27/2021		0.00073					
4/19/2022			0.00019 (J)	0.00043	0.00017 (J)	0.00014 (J)	0.00027
5/3/2022		0.00058					
8/29/2022			0.000109 (J)	0.000281	8.2E-05 (J)	<0.000203	0.000163 (J)
8/30/2022		0.00063					
2/1/2023			0.000112 (J)		<0.000203	0.000108 (J)	0.000232
2/7/2023		0.000466		0.000203			
7/18/2023							<0.000203
7/19/2023			<0.000203	0.000296	<0.000203	<0.000203	
7/31/2023		0.000736					

Tukey's Outlier Screening, Pooled Background

Constituent: Barium (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	0.00887 (J)	0.0116					
5/17/2016		0.00866 (J)					
5/18/2016	0.00816 (J)						
7/11/2016	0.0096 (J)	0.00969 (J)					
9/14/2016	0.00964 (J)	0.00864 (J)					
11/16/2016	0.0247	0.00917 (J)					
3/1/2017	0.0282	0.00869 (J)					
5/23/2017	0.0187	0.00658 (J)					
6/19/2017	0.0164	0.00672 (J)					
1/10/2018	0.0149	0.00645 (J)					
4/19/2018	0.0147	0.00625 (J)					
10/3/2018	0.0131	0.00708 (J)					
4/1/2019	0.0116						
4/2/2019		0.00625 (J)					
9/17/2019		0.00834 (J)					
9/18/2019	0.0118						
2/19/2020		0.00697 (J)					
7/27/2020		0.0192					
4/5/2021		0.0222					
4/12/2021			0.008	0.0226	0.0107	0.0155	
4/13/2021							0.0154
9/21/2021			0.0101	0.0283	0.00746	0.0213	0.0114
9/27/2021		0.021					
4/19/2022			0.00686	0.0279	0.00636	0.0185	0.0148
5/3/2022		0.0222					
8/29/2022			0.00461	0.0302	0.00619	0.0212	0.0147
8/30/2022		0.0177					
2/1/2023			0.00956		0.00572	0.0176	0.0147
2/7/2023		0.0163		0.0287			
7/18/2023							0.00988
7/19/2023			0.0131	0.029	0.00652	0.0189	
7/31/2023		0.0157					

Tukey's Outlier Screening, Pooled Background

Constituent: Beryllium (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.001015	<0.001015					
5/17/2016		<0.001015					
5/18/2016	<0.001015						
7/11/2016	<0.001015	<0.001015					
9/14/2016	<0.001015	<0.001015					
11/16/2016	<0.001015	<0.001015					
3/1/2017	<0.001015	<0.001015					
5/23/2017	<0.001015	<0.001015					
6/19/2017	<0.001015	<0.001015					
1/10/2018	<0.001015	<0.001015					
4/19/2018	<0.001015	<0.001015					
10/3/2018	<0.001015	<0.001015					
4/1/2019	<0.001015						
4/2/2019		<0.001015					
9/17/2019		<0.001015					
9/18/2019	<0.001015						
2/19/2020		<0.001015					
7/27/2020		<0.001015					
4/5/2021		<0.001015					
4/12/2021			<0.001015	<0.001015	<0.001015	<0.001015	
4/13/2021							<0.001015
9/21/2021			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/27/2021	<0.001015						
4/19/2022			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/3/2022	<0.001015						
8/29/2022			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/30/2022	<0.001015						
2/1/2023			<0.001015		<0.001015	<0.001015	<0.001015
2/7/2023	<0.001015		<0.001015				
7/18/2023							<0.001015
7/19/2023			<0.001015	<0.001015	<0.001015	<0.001015	
7/31/2023	<0.001015						

Tukey's Outlier Screening, Pooled Background

Constituent: Boron (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.1015	<0.1015					
5/17/2016		<0.1015					
5/18/2016	<0.1015						
7/11/2016	<0.1015	<0.1015					
9/14/2016	<0.1015	<0.1015					
11/16/2016	<0.1015	<0.1015					
3/1/2017	<0.1015	<0.1015					
5/23/2017	<0.1015	<0.1015					
6/19/2017	<0.1015	<0.1015					
8/15/2017	<0.1015	<0.1015					
4/19/2018	<0.1015	<0.1015					
10/3/2018	<0.1015	<0.1015					
4/1/2019	<0.1015						
4/2/2019		<0.1015					
9/17/2019		<0.1015					
9/18/2019	<0.1015						
2/19/2020		<0.1015					
7/27/2020		<0.1015					
4/5/2021		<0.1015					
4/12/2021			<0.1015	<0.1015	0.0342 (J)	<0.1015	
4/13/2021							<0.1015
9/21/2021			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
9/27/2021		<0.1015					
4/19/2022			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
5/3/2022		<0.1015					
8/29/2022			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
8/30/2022		<0.1015					
2/1/2023			<0.1015		<0.1015	<0.1015	<0.1015
2/7/2023		<0.1015		<0.1015			
7/18/2023							<0.1015
7/19/2023			<0.1015	<0.1015	<0.1015	<0.1015	
7/31/2023		<0.1015					

Tukey's Outlier Screening, Pooled Background

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.000203	<0.000203					
5/17/2016		<0.000203					
5/18/2016	<0.000203						
7/11/2016	<0.000203	<0.000203					
9/14/2016	<0.000203	<0.000203					
11/16/2016	<0.000203	<0.000203					
3/1/2017	<0.000203	<0.000203					
5/23/2017	<0.000203	<0.000203					
6/19/2017	<0.000203	<0.000203					
1/10/2018	<0.000203	<0.000203					
4/19/2018	<0.000203	<0.000203					
10/3/2018	<0.000203	<0.000203					
4/1/2019	<0.000203						
4/2/2019		<0.000203					
9/17/2019		<0.000203					
9/18/2019	<0.000203						
2/19/2020		<0.000203					
7/27/2020		<0.000203					
4/5/2021		<0.000203					
4/12/2021			<0.000203	<0.000203	<0.000203	<0.000203	
4/13/2021							0.000855
9/21/2021			<0.000203	<0.000203	<0.000203	<0.000203	0.00018 (J)
9/27/2021	<0.000203						
4/19/2022			<0.000203	<0.000203	<0.000203	<0.000203	0.00019 (J)
5/3/2022	<0.000203						
8/29/2022			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/30/2022	<0.000203						
2/1/2023			<0.000203		<0.000203	<0.000203	9.5E-05 (J)
2/7/2023	<0.000203		<0.000203				
7/18/2023							7.4E-05 (J)
7/19/2023			<0.000203	<0.000203	<0.000203	<0.000203	
7/31/2023	<0.000203						

Tukey's Outlier Screening, Pooled Background

Constituent: Calcium (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	34.2	31.6					
5/17/2016		29.6					
5/18/2016	32.6						
7/11/2016	32.5	30					
9/14/2016	32.1	30.6					
11/16/2016	33.4	30.4					
3/1/2017	33.3	<0.5 (o)					
5/23/2017	32.7	30.1					
6/19/2017	32.6	29.9					
8/15/2017	31.5	28.1					
4/19/2018	34.2	31.2					
10/3/2018	38.6	32.3					
4/1/2019	35.8						
4/2/2019		31.6					
9/17/2019		31.7					
9/18/2019	35						
2/19/2020		32.3					
7/27/2020		31					
4/5/2021		30.6					
4/12/2021			23.2	35	22.9	26.6	
4/13/2021							11.7
9/21/2021			22.3	36.1	21.6	31.7	15.4
9/27/2021		30.7					
4/19/2022			23.3	36.4	21.6	29.4	11
5/3/2022		29.9					
8/29/2022			23.1	36.400002	21.299999	30.799999	13.3
8/30/2022		30.6					
2/1/2023			21.200001		20	27.200001	11.7
2/7/2023		29		35.200001			
7/18/2023							12.2
7/19/2023			20.4	35.299999	21.700001	28.200001	
7/31/2023		32.700001					

Tukey's Outlier Screening, Pooled Background

Constituent: Chloride (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	1.73	2.48					
5/17/2016		1.9					
5/18/2016	1.4						
7/11/2016	1.73	1.93					
9/14/2016	2.24	1.77					
11/16/2016	3.57	1.98					
3/1/2017	3.4	2.3					
5/23/2017	2.4	2.2					
6/19/2017	1.9 (J)	1.7 (J)					
8/15/2017	5.4	2.1					
4/19/2018	1.8 (J)	1.7 (J)					
10/3/2018	<2	1.7 (J)					
4/1/2019	1.36						
4/2/2019		1.65					
9/17/2019		1.93					
9/18/2019	1.53						
2/19/2020		1.81					
7/27/2020		1.83					
4/5/2021		1.91					
4/12/2021			5.88	2.91	4.13	3.05	
4/13/2021							4.18
9/21/2021			6.09	2.94	2.19	2.78	3.99
9/27/2021		1.9					
4/19/2022			5.24	2.22	2.03	2.71	3.8
5/3/2022		1.67					
8/29/2022			4.26	2.06	1.74	2.15	3.29
8/30/2022		1.64					
2/1/2023			4.54		2.05	2.61	3.75
2/7/2023		2.32		2.46			
7/18/2023							3.57
7/19/2023			4.37	2.14	2	2.35	
7/31/2023		2.96					

Tukey's Outlier Screening, Pooled Background

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.00102	<0.00102					
5/17/2016		<0.00102					
5/18/2016	<0.00102						
7/11/2016	<0.00102	<0.00102					
9/14/2016	<0.00102	<0.00102					
11/16/2016	<0.00102	<0.00102					
3/1/2017	<0.00102	<0.00102					
5/23/2017	<0.00102	<0.00102					
6/19/2017	<0.00102	<0.00102					
1/10/2018	<0.00102	<0.00102					
4/19/2018	<0.00102	<0.00102					
10/3/2018	<0.00102	<0.00102					
4/1/2019	<0.00102						
4/2/2019		<0.00102					
9/17/2019		<0.00102					
9/18/2019	<0.00102						
2/19/2020		<0.00102					
7/27/2020		<0.00102					
4/5/2021		0.00065 (J)					
4/12/2021			0.000599 (J)	0.000345 (J)	0.000871 (J)	0.000441 (J)	
4/13/2021							0.000307 (J)
9/21/2021			0.00079 (J)	0.00033 (J)	0.00113	0.00045 (J)	0.0005 (J)
9/27/2021		0.0005 (J)					
4/19/2022			0.00066 (J)	0.0003 (J)	0.00106	0.00048 (J)	0.00048 (J)
5/3/2022		0.00044 (J)					
8/29/2022			0.000511 (J)	<0.00102	0.000944 (J)	0.000279 (J)	0.000563 (J)
8/30/2022		0.000458 (J)					
2/1/2023			0.00041 (J)		0.000818 (J)	0.000327 (J)	0.000724 (J)
2/7/2023		0.000462 (J)		<0.00102			
7/18/2023							0.000564 (J)
7/19/2023			0.000444 (J)	0.000274 (J)	0.000934 (J)	0.000295 (J)	
7/31/2023		0.000709 (J)					

Tukey's Outlier Screening, Pooled Background

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.000203	<0.000203					
5/17/2016		<0.000203					
5/18/2016	<0.000203						
7/11/2016	<0.000203	<0.000203					
9/14/2016	<0.000203	<0.000203					
11/16/2016	<0.000203	<0.000203					
3/1/2017	<0.000203	<0.000203					
5/23/2017	<0.000203	<0.000203					
6/19/2017	<0.000203	<0.000203					
1/10/2018	<0.000203	<0.000203					
4/19/2018	<0.000203	<0.000203					
10/3/2018	<0.000203	<0.000203					
4/1/2019	<0.000203						
4/2/2019		<0.000203					
9/17/2019		<0.000203					
9/18/2019	<0.000203						
2/19/2020		<0.000203					
7/27/2020		<0.000203					
4/5/2021		<0.000203					
4/12/2021			9.61E-05 (J)	<0.000203	0.000109 (J)	0.000167 (J)	
4/13/2021							0.00168
9/21/2021			8E-05 (J)	<0.000203	<0.000203	<0.000203	<0.000203
9/27/2021	<0.000203						
4/19/2022			0.00013 (J)	<0.000203	<0.000203	8E-05 (J)	0.00018 (J)
5/3/2022	<0.000203						
8/29/2022			0.0001 (J)	<0.000203	<0.000203	<0.000203	0.000118 (J)
8/30/2022	0.000184 (J)						
2/1/2023			0.000101 (J)		<0.000203	7.3E-05 (J)	0.000141 (J)
2/7/2023	<0.000203			<0.000203			
7/18/2023							<0.000203
7/19/2023			0.000104 (J)	<0.000203	<0.000203	0.000222	
7/31/2023	0.000246						

Tukey's Outlier Screening, Pooled Background

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	3 (U)	3 (U)					
5/17/2016		0.222 (U)					
5/18/2016	0.142 (U)						
7/11/2016	0.279 (U)	0.118 (U)					
9/14/2016	0.205 (U)	0.265 (U)					
11/16/2016	0.373 (U)	0.295 (U)					
3/1/2017	0.217 (U)	0.0981 (U)					
6/19/2017	0.357 (U)	0.194 (U)					
1/10/2018	0.239 (U)	0.753					
4/19/2018	-0.125 (UO)	0.171 (U)					
10/3/2018	0.185 (U)	0.433 (U)					
4/1/2019	0.162 (U)						
4/2/2019		-0.0631 (U)					
9/17/2019		0.0186 (U)					
9/18/2019	-0.0854 (U)						
2/19/2020		0.418 (U)					
7/27/2020		-0.0654 (U)					
4/5/2021		0.143 (U)					
4/12/2021			0.369 (U)	0.176 (U)	0.161 (U)	0.456 (U)	
4/13/2021							0.404 (U)
9/21/2021			0.655 (U)	0.723 (U)	0.737 (U)	0.828 (U)	0.491 (U)
9/27/2021		0.348 (U)					
4/19/2022			0.024 (U)	1.02	0.455 (U)	0.392 (U)	0.853 (U)
5/3/2022		0.822 (U)					
8/29/2022			0.53 (U)	0.527 (U)	0.00194 (U)	0.246 (U)	0.63 (U)
8/30/2022		0.842 (U)					
2/1/2023			0.0722 (U)		0.389 (U)	0.565 (U)	0.531 (U)
2/7/2023		0.231 (U)		0.632 (U)			
7/18/2023							0.707 (U)
7/19/2023			1.76	0.984 (U)	0.864 (U)	0.891 (U)	
7/31/2023		0.773 (U)					

Tukey's Outlier Screening, Pooled Background

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	0.028 (J)	0.032 (J)					
5/17/2016		0.068 (J)					
5/18/2016	0.064 (J)						
7/11/2016	0.054 (J)	0.057 (J)					
9/14/2016	0.016 (J)	0.017 (J)					
11/16/2016	<0.125	<0.125					
3/1/2017	<0.125	<0.125					
5/23/2017	<0.125	<0.125					
6/19/2017	<0.125	<0.125					
8/15/2017	<0.125	<0.125					
1/10/2018	<0.125	<0.125					
4/19/2018	<0.125	<0.125					
10/3/2018	0.04 (J)	<0.125					
4/1/2019	<0.125						
4/2/2019		<0.125					
9/17/2019		<0.125					
9/18/2019	<0.125						
2/19/2020		<0.125					
7/27/2020		<0.125					
4/5/2021		0.0801 (J)					
4/12/2021			<0.125	0.163	0.0651 (J)	<0.125	
4/13/2021							<0.125
9/21/2021			0.0969 (J)	0.181	0.083 (J)	0.113	0.0656 (J)
9/27/2021		0.0805 (J)					
4/19/2022			<0.125	0.107 (J)	<0.125	<0.125	<0.125
5/3/2022		<0.125					
8/29/2022			0.0941 (J)	0.0988 (J)	<0.125	<0.125	<0.125
8/30/2022		<0.125					
2/1/2023			<0.125		<0.125	<0.125	0.0603 (J)
2/7/2023		<0.125		0.109 (J)			
7/18/2023							0.098 (J)
7/19/2023			<0.125	0.107 (J)	<0.125	<0.125	
7/31/2023		0.0836 (J)					

Tukey's Outlier Screening, Pooled Background

Constituent: Lead (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.000203	0.00128 (J)					
5/17/2016		<0.000203					
5/18/2016	<0.000203						
7/11/2016	<0.000203	<0.000203					
9/14/2016	<0.000203	<0.000203					
11/16/2016	<0.000203	<0.000203					
3/1/2017	<0.000203	<0.000203					
5/23/2017	<0.000203	<0.000203					
6/19/2017	<0.000203	<0.000203					
1/10/2018	<0.000203	<0.000203					
4/19/2018	<0.000203	<0.000203					
10/3/2018	<0.000203	<0.000203					
4/1/2019	<0.000203						
4/2/2019		<0.000203					
9/17/2019		<0.000203					
9/18/2019	<0.000203						
2/19/2020		<0.000203					
7/27/2020		<0.000203					
4/5/2021		<0.000203					
4/12/2021			0.000124 (J)	<0.000203	0.000114 (J)	0.000122 (J)	
4/13/2021							<0.000203
9/21/2021			0.00012 (J)	<0.000203	<0.000203	<0.000203	<0.000203
9/27/2021	<0.000203						
4/19/2022			0.0001 (J)	<0.000203	<0.000203	<0.000203	7E-05 (J)
5/3/2022	<0.000203						
8/29/2022			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/30/2022	0.000615						
2/1/2023			<0.000203		<0.000203	6.9E-05 (J)	7E-05 (J)
2/7/2023	<0.000203			<0.000203			
7/18/2023							<0.000203
7/19/2023			8.7E-05 (J)	<0.000203	<0.000203	0.000101 (J)	
7/31/2023	0.000729						

Tukey's Outlier Screening, Pooled Background

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.02	<0.02					
5/17/2016		<0.02					
5/18/2016	<0.02						
7/11/2016	<0.02	<0.02					
9/14/2016	<0.02	<0.02					
11/16/2016	<0.02	<0.02					
3/1/2017	<0.02	<0.02					
5/23/2017	<0.02	<0.02					
6/19/2017	<0.02	<0.02					
1/10/2018	<0.02	<0.02					
4/19/2018	<0.02	<0.02					
10/3/2018	<0.02	<0.02					
4/1/2019	<0.02						
4/2/2019		<0.02					
9/17/2019		<0.02					
9/18/2019	<0.02						
2/19/2020		<0.02					
7/27/2020		<0.02					
4/5/2021		<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
9/27/2021	<0.02						
4/19/2022			<0.02	<0.02	<0.02	<0.02	<0.02
5/3/2022	<0.02						
8/29/2022			<0.02	<0.02	<0.02	<0.02	<0.02
8/30/2022	<0.02						
2/1/2023			<0.02		<0.02	<0.02	<0.02
2/7/2023	<0.02		<0.02				
7/18/2023							<0.02
7/19/2023			<0.02	<0.02	<0.02	<0.02	
7/31/2023	<0.02						

Tukey's Outlier Screening, Pooled Background

Constituent: Mercury (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.0005	<0.0005					
5/17/2016		<0.0005					
5/18/2016	<0.0005						
7/11/2016	<0.0005	<0.0005					
9/14/2016	<0.0005	<0.0005					
11/16/2016	<0.0005	<0.0005					
3/1/2017	<0.0005	<0.0005					
5/23/2017	<0.0005	<0.0005					
6/19/2017	<0.0005	<0.0005					
1/10/2018	<0.0005	<0.0005					
4/19/2018	<0.0005	<0.0005					
10/3/2018	<0.0005	<0.0005					
4/1/2019	<0.0005						
4/2/2019		<0.0005					
9/17/2019		<0.0005					
9/18/2019	<0.0005						
2/19/2020		<0.0005					
7/27/2020		<0.0005					
4/5/2021		<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
9/27/2021	<0.0005						
4/19/2022			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
5/3/2022	<0.0005						
8/29/2022			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2022	<0.0005						
2/1/2023			<0.0005		<0.0005	<0.0005	<0.0005
2/7/2023	<0.0005		<0.0005				
7/18/2023							<0.0005
7/19/2023			<0.0005	<0.0005	<0.0005	<0.0005	
7/31/2023	<0.0005						

Tukey's Outlier Screening, Pooled Background

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	0.00274 (J)	0.00652 (J)					
5/17/2016		0.00651 (J)					
5/18/2016	<0.01015						
7/11/2016	<0.01015	0.00691 (J)					
9/14/2016	<0.01015	0.0074 (J)					
11/16/2016	0.00215 (J)	0.00663 (J)					
3/1/2017	<0.01015	0.00856 (J)					
5/23/2017	<0.01015	0.00689 (J)					
6/19/2017	<0.01015	0.00687 (J)					
1/10/2018	<0.01015	0.00806 (J)					
4/19/2018	<0.01015	0.00659 (J)					
10/3/2018	<0.01015	0.00669 (J)					
4/1/2019	<0.01015						
4/2/2019		0.00766 (J)					
9/17/2019		0.00644 (J)					
9/18/2019	<0.01015						
2/19/2020		0.00575 (J)					
7/27/2020		0.0058 (J)					
4/5/2021		0.00538					
4/12/2021			0.000402	0.00167	0.000473	<0.01015	
4/13/2021							0.000176 (J)
9/21/2021			0.00017 (J)	0.00088	0.00019 (J)	<0.01015	0.00015 (J)
9/27/2021	0.00469						
4/19/2022			0.0002 (J)	0.00074	0.00012 (J)	<0.01015	0.00013 (J)
5/3/2022	0.00439						
8/29/2022			0.00013 (J)	0.000816	<0.01015	<0.01015	0.000169 (J)
8/30/2022	0.00435						
2/1/2023			0.000151 (J)		<0.01015	<0.01015	<0.01015
2/7/2023	0.00393			0.000954			
7/18/2023							<0.01015
7/19/2023			<0.01015	<0.01015	<0.01015	<0.01015	
7/31/2023	<0.01015						

Tukey's Outlier Screening, Pooled Background

Constituent: pH (pH) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	7.79	7.82					
5/17/2016		7.79					
5/18/2016	7.73						
7/11/2016	7.99	7.96					
9/14/2016	7.75	7.79					
11/16/2016	7.64	7.72					
3/1/2017	7.65	7.68					
5/23/2017	7.67	7.69					
6/19/2017	7.65	7.67					
8/15/2017	7.69	7.73					
1/10/2018	7.8	7.84					
4/19/2018	7.54	7.69					
10/3/2018	7.68	7.7					
4/1/2019	7.76						
4/2/2019		7.8					
9/17/2019		7.8					
9/18/2019	7.69						
2/19/2020		7.8					
7/27/2020		7.69					
4/5/2021		7.67					
4/12/2021			7.99	7.09	7.77	7.18	
4/13/2021							6.14 (O)
9/21/2021			7.85	7.3	7.12	7.3	6.07 (O)
9/27/2021		7.81					
4/19/2022			7.91	6.85	7.68	6.8	6.31 (O)
5/3/2022		7.72					
8/29/2022			8.09	7.09	7.73	7.57	5.87 (O)
8/30/2022		9.22 (o)					
2/1/2023			8.18		8.04	7.75	6.52
2/7/2023		7.79		7.58			
7/18/2023							6.13 (O)
7/19/2023			7.78	7.04	7.71	7.45	
7/31/2023		7.75					

Tukey's Outlier Screening, Pooled Background

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.001015	<0.001015					
5/17/2016		<0.001015					
5/18/2016	<0.001015						
7/11/2016	<0.001015	<0.001015					
9/14/2016	<0.001015	<0.001015					
11/16/2016	<0.001015	<0.001015					
3/1/2017	<0.001015	<0.001015					
5/23/2017	<0.001015	<0.001015					
6/19/2017	<0.001015	<0.001015					
1/10/2018	<0.001015	<0.001015					
4/19/2018	<0.001015	<0.001015					
10/3/2018	<0.001015	<0.001015					
4/1/2019	<0.001015						
4/2/2019		<0.001015					
9/17/2019		<0.001015					
9/18/2019	<0.001015						
2/19/2020		<0.001015					
7/27/2020		<0.001015					
4/5/2021		<0.001015					
4/12/2021			<0.001015	<0.001015	<0.001015	<0.001015	
4/13/2021							<0.001015
9/21/2021			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
9/27/2021	<0.001015						
4/19/2022			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
5/3/2022	<0.001015						
8/29/2022			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/30/2022	<0.001015						
2/1/2023			<0.001015		<0.001015	<0.001015	0.000584 (J)
2/7/2023	<0.001015		<0.001015				
7/18/2023							<0.001015
7/19/2023			<0.001015	<0.001015	<0.001015	<0.001015	
7/31/2023	<0.001015						

Tukey's Outlier Screening, Pooled Background

Constituent: Sulfate (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	2.09	7.57					
5/17/2016		5.12					
5/18/2016	1.92						
7/11/2016	3.41	4.63					
9/14/2016	4.94	3.19					
11/16/2016	10.5	3.71					
3/1/2017	5.1	3.4 (J)					
5/23/2017	2.3 (J)	2 (J)					
6/19/2017	2.1 (J)	2.5 (J)					
8/15/2017	1.7 (J)	2.4 (J)					
4/19/2018	<2	1.9 (J)					
10/3/2018	1.7 (J)	2.7 (J)					
4/1/2019	1.87						
4/2/2019		3.24					
9/17/2019		4.51					
9/18/2019	2.39						
2/19/2020		3.73					
7/27/2020		4.11					
4/5/2021		3.2					
4/12/2021			12.6	14.6	7.23	2.99	
4/13/2021							4.92
9/21/2021			5.49	14.5	1.31	1.44	3.27
9/27/2021		2.76					
4/19/2022			2.72	11.4	0.934 (J)	1.37 (J)	2.25
5/3/2022		2.16					
8/29/2022			3.16	12.4	<2	2.24	2.99
8/30/2022		2.73					
2/1/2023			1.28 (J)		0.892 (J)	1.82 (J)	2.27
2/7/2023		2.6		14.2			
7/18/2023							1.65 (J)
7/19/2023			2.51	13.1	1.7 (J)	2.04	
7/31/2023		4.18					

Tukey's Outlier Screening, Pooled Background

Constituent: TDS (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	138	147					
5/17/2016		140					
5/18/2016	156						
7/11/2016	167	146					
9/14/2016	166	141					
11/16/2016	192	157					
3/1/2017	186	148					
5/23/2017	158	141					
6/19/2017	156	126					
8/15/2017	168	146					
4/19/2018	154	143					
10/3/2018	156	148					
4/1/2019	160						
4/2/2019		140					
9/17/2019		145					
9/18/2019	154						
2/19/2020		149					
7/27/2020		154					
4/5/2021		136					
4/12/2021			129	146	118	126	
4/13/2021							77.3
9/21/2021			115	139	111	148	83.3
9/27/2021		132					
4/19/2022			122	144	107	138	67.3
5/3/2022		141					
8/29/2022			98	136	94.699997	133	76
8/30/2022		151					
2/1/2023			104		98.699997	122	66
2/7/2023		141		145			
7/18/2023							74.699997
7/19/2023			103	148	109	133	
7/31/2023		150					

Tukey's Outlier Screening, Pooled Background

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 3:31 PM View: Pooled Upgradient Wells
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-38 (bg)	GN-AP-MW-39 (bg)	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-42 (bg)
3/28/2016	<0.000203	0.000648 (J)					
5/17/2016		<0.000203					
5/18/2016	<0.000203						
7/11/2016	<0.000203	<0.000203					
9/14/2016	<0.000203	<0.000203					
11/16/2016	<0.000203	<0.000203					
3/1/2017	0.000265 (J)	<0.000203					
5/23/2017	0.000239 (J)	<0.000203					
6/19/2017	0.000202 (J)	<0.000203					
1/10/2018	<0.000203	<0.000203					
4/19/2018	<0.000203	<0.000203					
10/3/2018	<0.000203	<0.000203					
4/1/2019	<0.000203						
4/2/2019		<0.000203					
9/17/2019		<0.000203					
9/18/2019	<0.000203						
2/19/2020		<0.000203					
7/27/2020		<0.000203					
4/5/2021		0.000203 (J)					
4/12/2021			<0.000203	<0.000203	<0.000203	<0.000203	
4/13/2021							0.00015 (J)
9/21/2021			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
9/27/2021		8E-05 (J)					
4/19/2022			<0.000203	<0.000203	<0.000203	<0.000203	9E-05 (J)
5/3/2022		0.00036					
8/29/2022			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/30/2022		0.000709					
2/1/2023			<0.000203		<0.000203	<0.000203	8.3E-05 (J)
2/7/2023		0.000482		<0.000203			
7/18/2023							<0.000203
7/19/2023			<0.000203	<0.000203	<0.000203	<0.000203	
7/31/2023		0.000399					

FIGURE D.

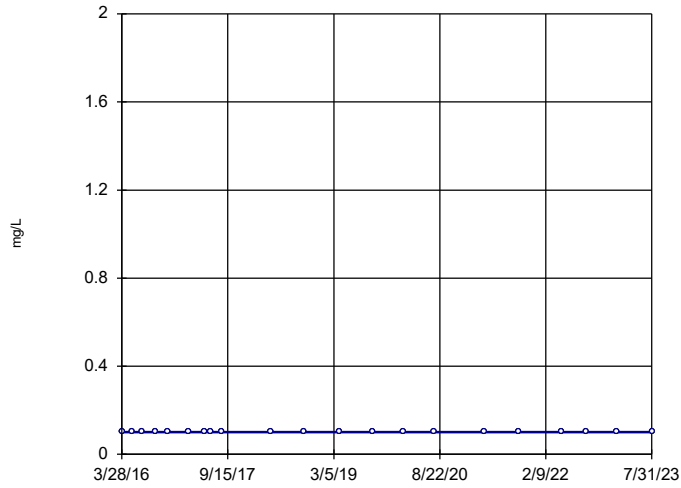
Upgradient Wells Trend Tests - All Results (No Significant)

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 10:03 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-3 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-38 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-39 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-40 (bg)	0	5	14	No	6	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-41 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-42 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-3 (bg)	0.09626	22	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-38 (bg)	-1.106	-9	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-39 (bg)	0.1096	2	14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-40 (bg)	-0.8295	-6	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-41 (bg)	-0.9605	-1	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-42 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-3 (bg)	-0.0162	-29	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-38 (bg)	-0.7411	-9	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-39 (bg)	-0.3476	-7	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-40 (bg)	-0.2781	-9	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-41 (bg)	-0.2882	-11	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-42 (bg)	-0.2696	-11	-14	No	6	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-3 (bg)	0	40	92	No	22	68.18	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-38 (bg)	0	1	14	No	6	66.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-39 (bg)	-0.02469	-6	-14	No	6	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-40 (bg)	0.02641	9	14	No	6	66.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-41 (bg)	0	3	14	No	6	83.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GN-AP-MW-42 (bg)	-0.003885	-4	-14	No	6	50	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-3 (bg)	-0.002517	-17	-87	No	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-38 (bg)	0.07242	1	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-39 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-40 (bg)	0.1383	3	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-41 (bg)	0.2824	7	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-42 (bg)	0.03293	1	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-3 (bg)	-0.1584	-46	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-38 (bg)	-3.086	-11	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-39 (bg)	-0.2253	-5	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-40 (bg)	-0.338	-5	-14	No	6	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-41 (bg)	-0.1217	-1	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-42 (bg)	-1.4	-11	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-3 (bg)	0	7	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-38 (bg)	-11.46	-9	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-39 (bg)	1.241	3	14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-40 (bg)	-9.015	-7	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-41 (bg)	-4.002	-4	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-42 (bg)	-1.648	-7	-14	No	6	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GN-AP-MW-3 (bg)

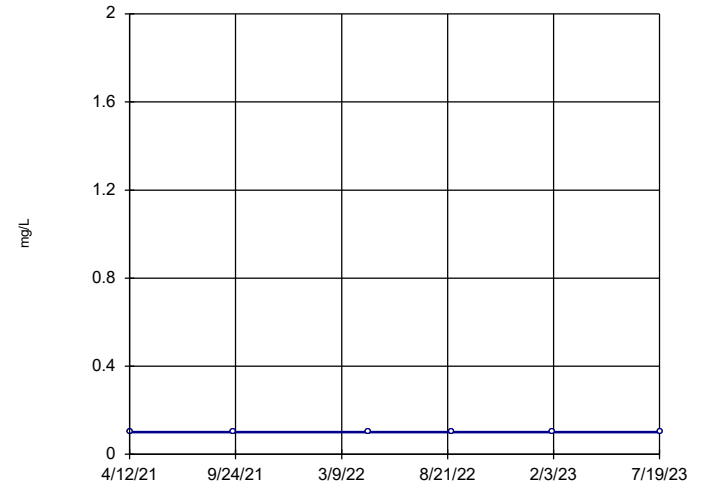


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)

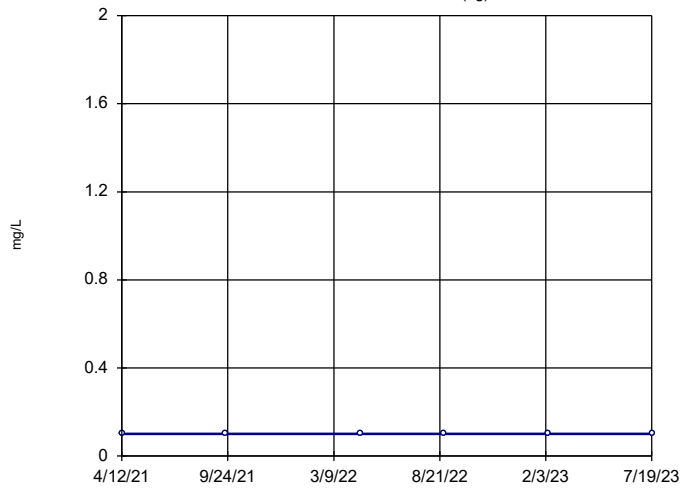


n = 6
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 14
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)

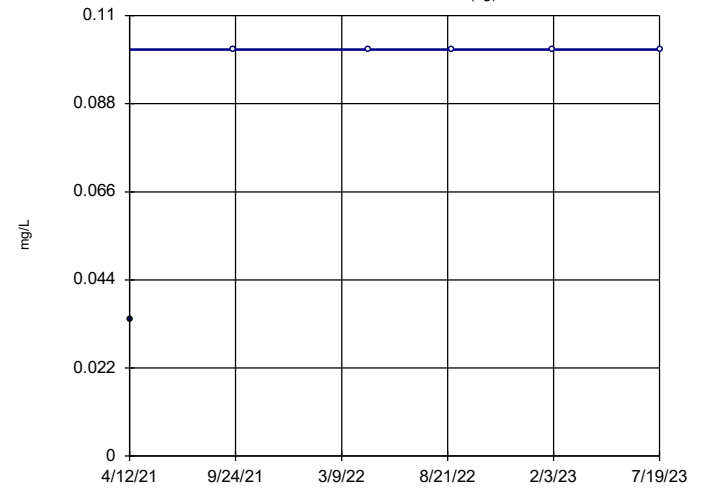


n = 6
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 14
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-40 (bg)

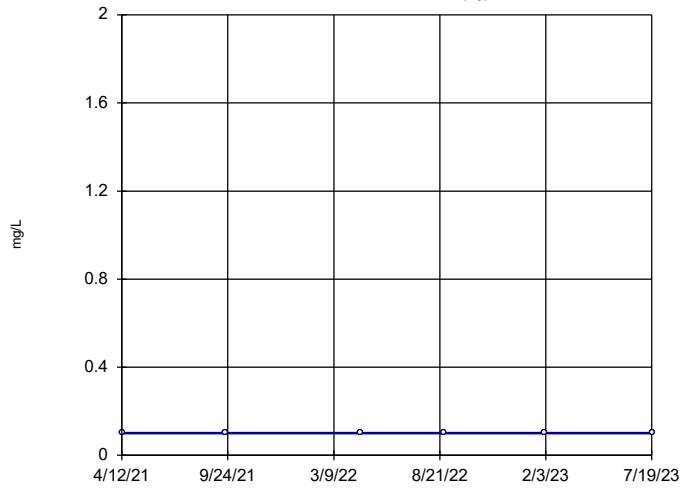


n = 6
Slope = 0
units per year.
Mann-Kendall
statistic = 5
critical = 14
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-41 (bg)

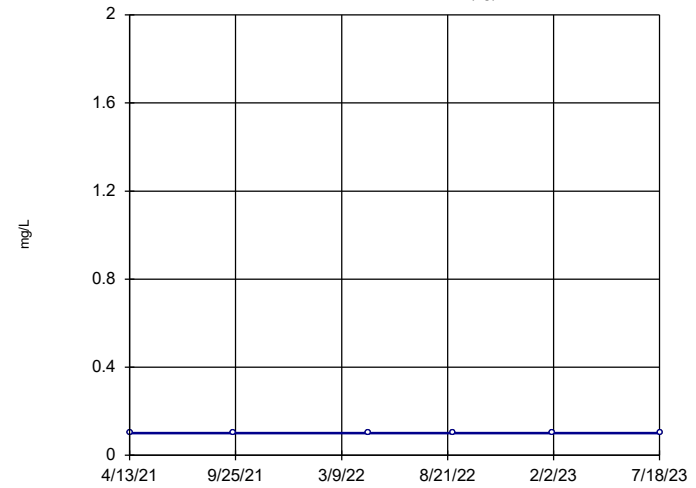


n = 6
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 14
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)

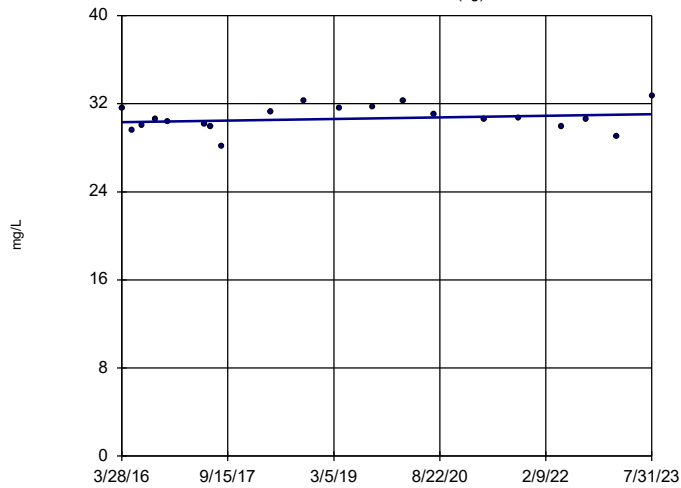


n = 6
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 14
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

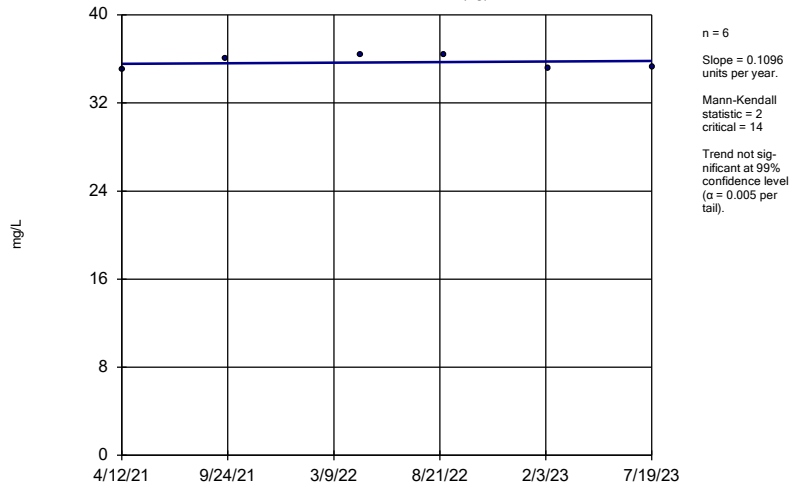
Sen's Slope Estimator

GN-AP-MW-3 (bg)



Sen's Slope Estimator

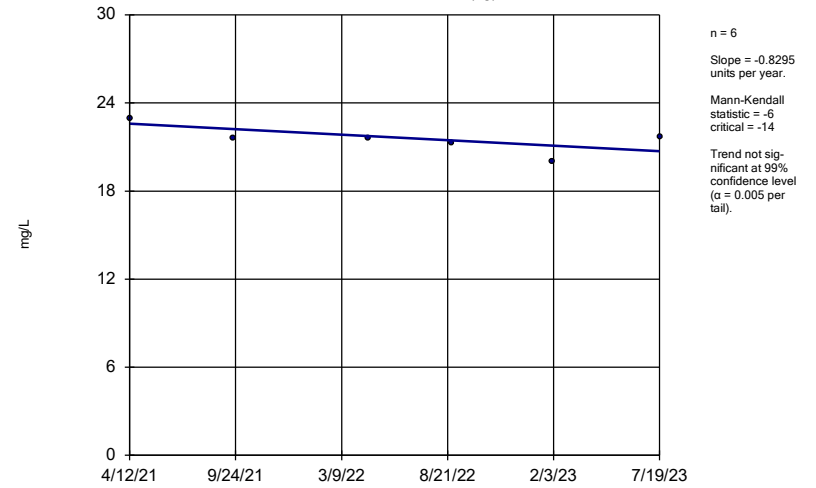
GN-AP-MW-39 (bg)



Constituent: Calcium Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

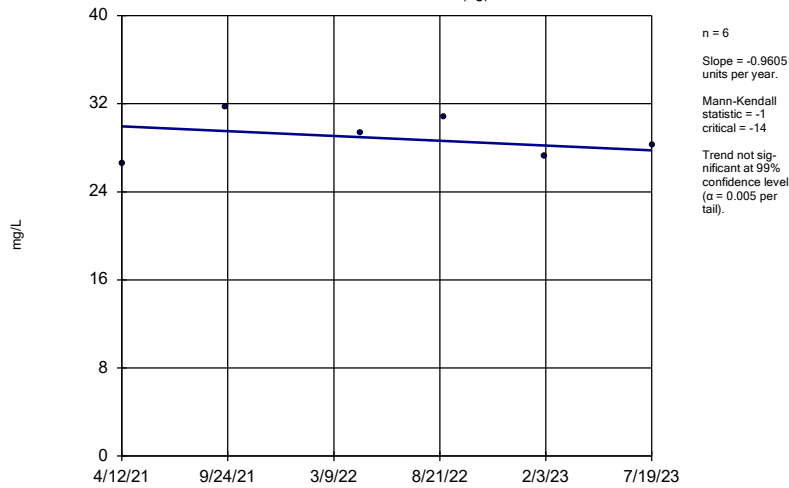
GN-AP-MW-40 (bg)



Constituent: Calcium Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

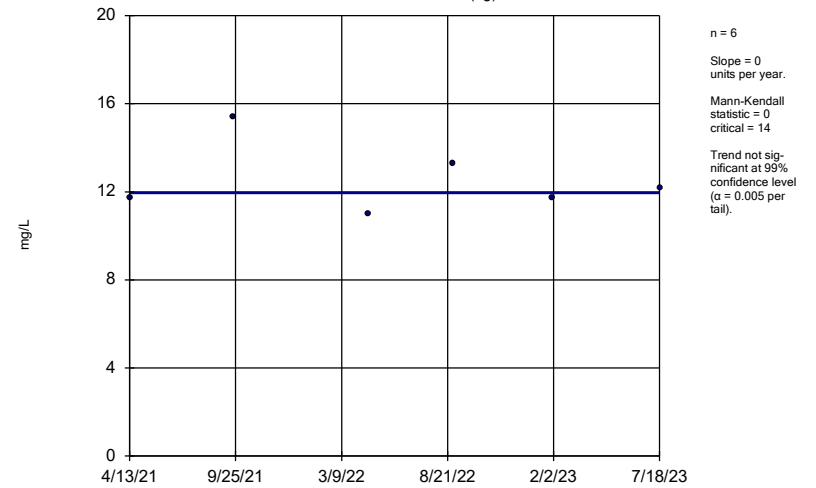
GN-AP-MW-41 (bg)



Constituent: Calcium Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

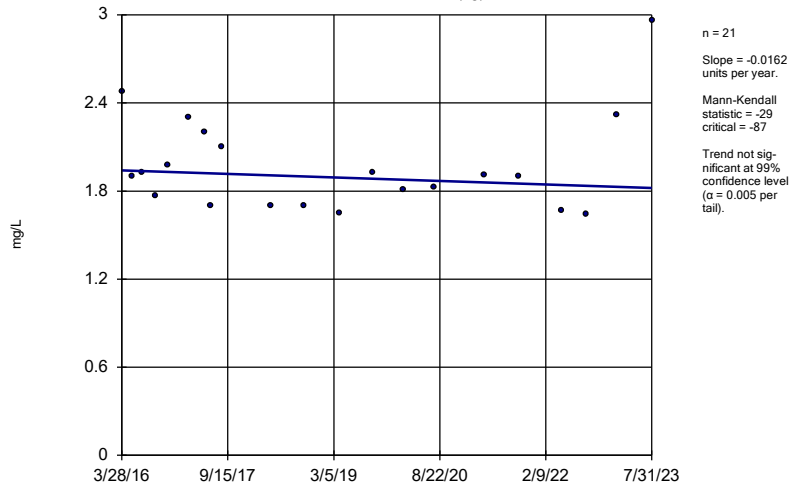
GN-AP-MW-42 (bg)



Constituent: Calcium Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

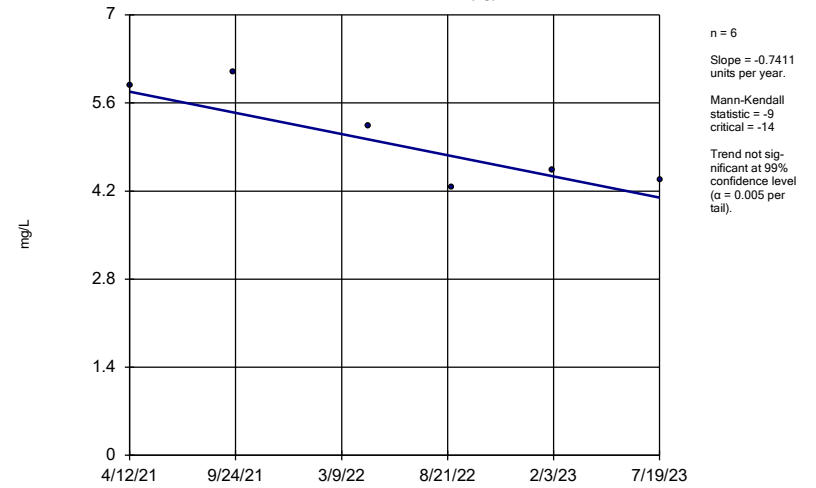
GN-AP-MW-3 (bg)



Constituent: Chloride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

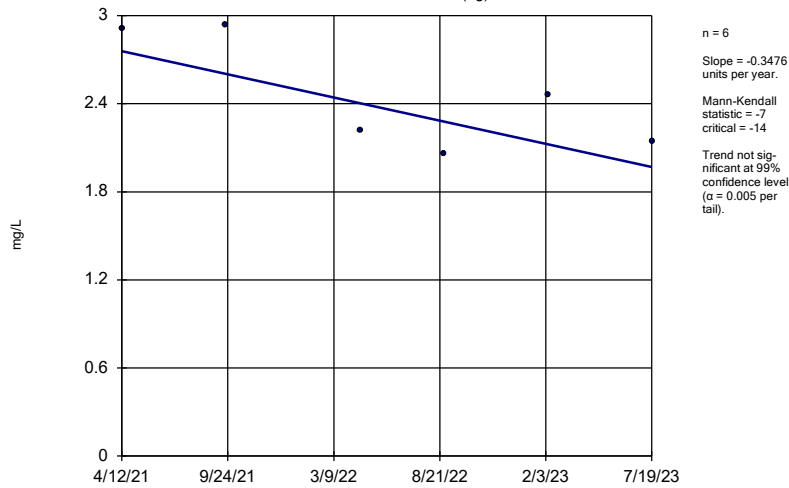
GN-AP-MW-38 (bg)



Constituent: Chloride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

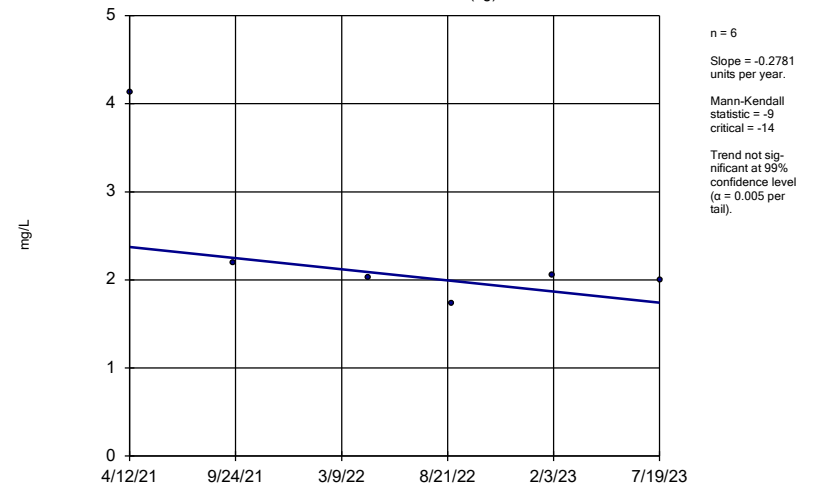
GN-AP-MW-39 (bg)



Constituent: Chloride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

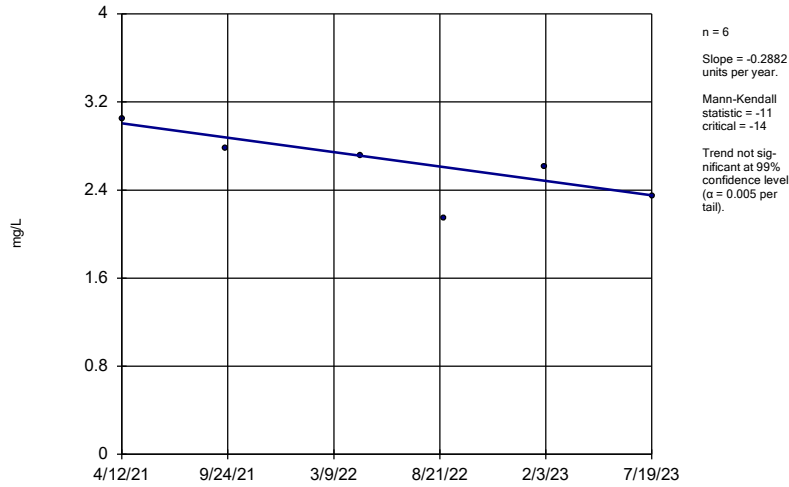
GN-AP-MW-40 (bg)



Constituent: Chloride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

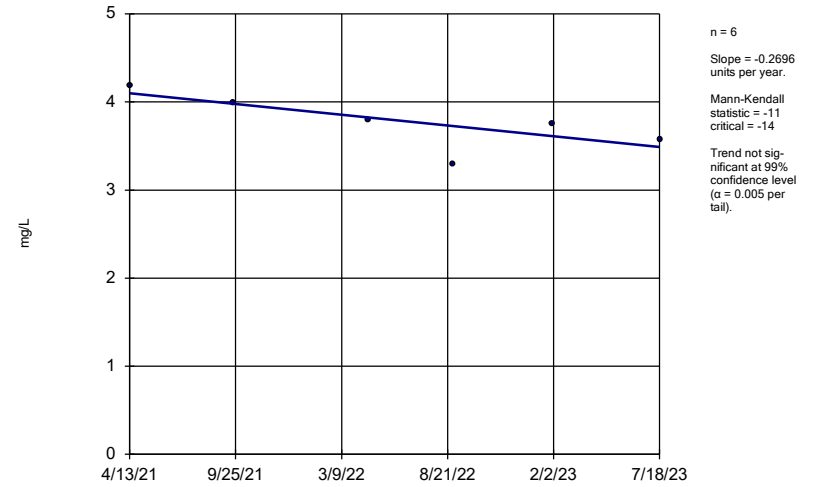
GN-AP-MW-41 (bg)



Constituent: Chloride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

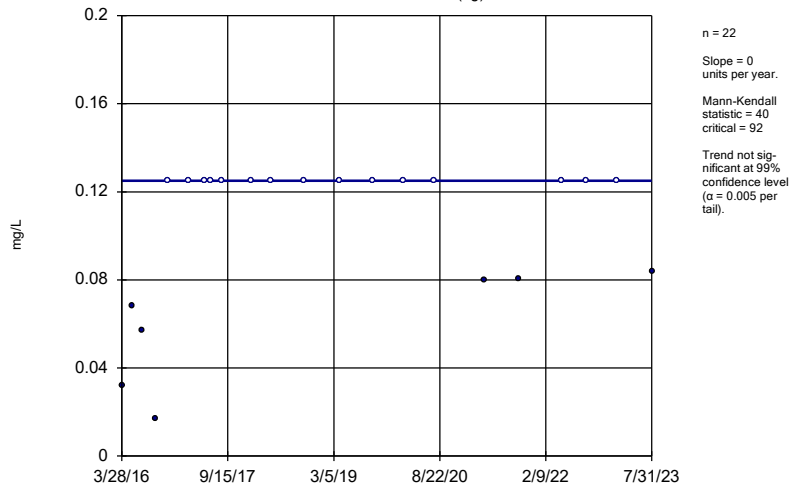
GN-AP-MW-42 (bg)



Constituent: Chloride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

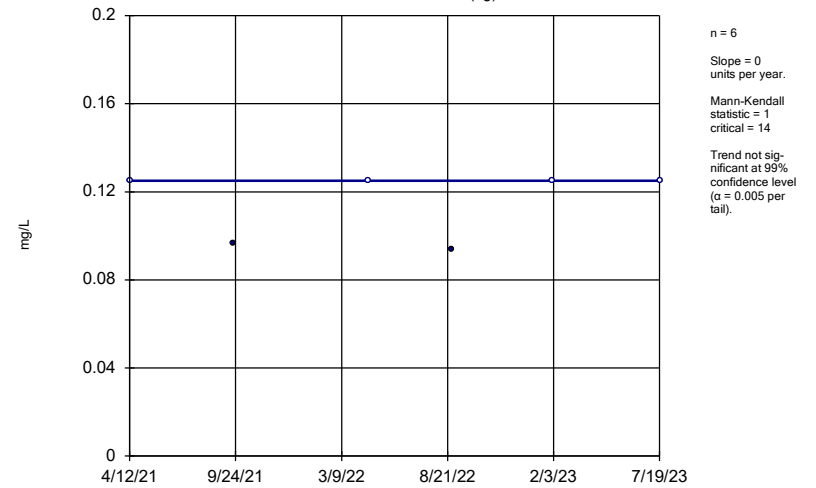
GN-AP-MW-3 (bg)



Constituent: Fluoride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

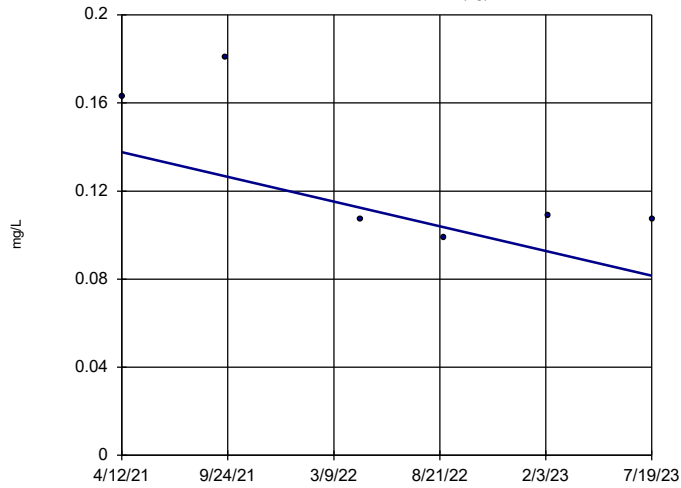
GN-AP-MW-38 (bg)



Constituent: Fluoride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)



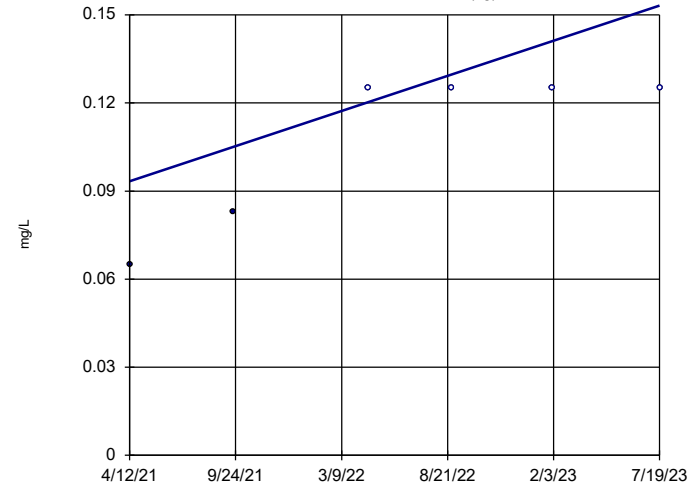
n = 6
 Slope = -0.02469
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-40 (bg)



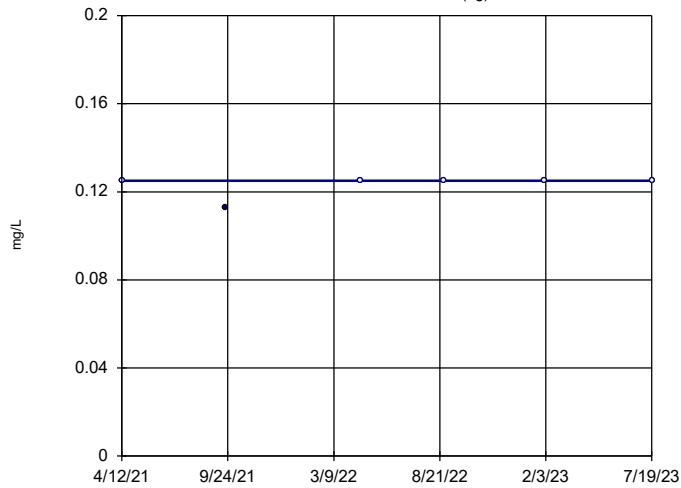
n = 6
 Slope = 0.02641
 units per year.
 Mann-Kendall
 statistic = 9
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-41 (bg)



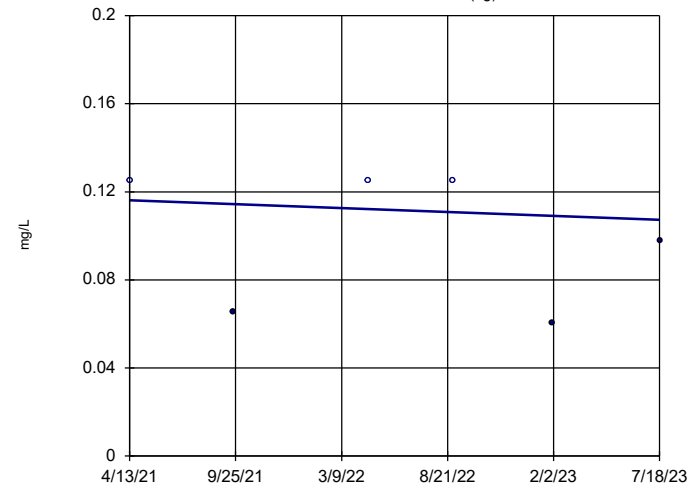
n = 6
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-42 (bg)

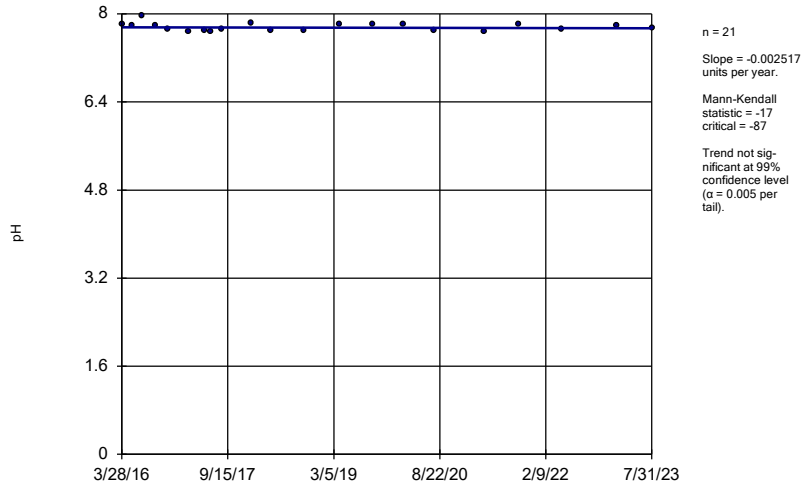


n = 6
 Slope = -0.003885
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

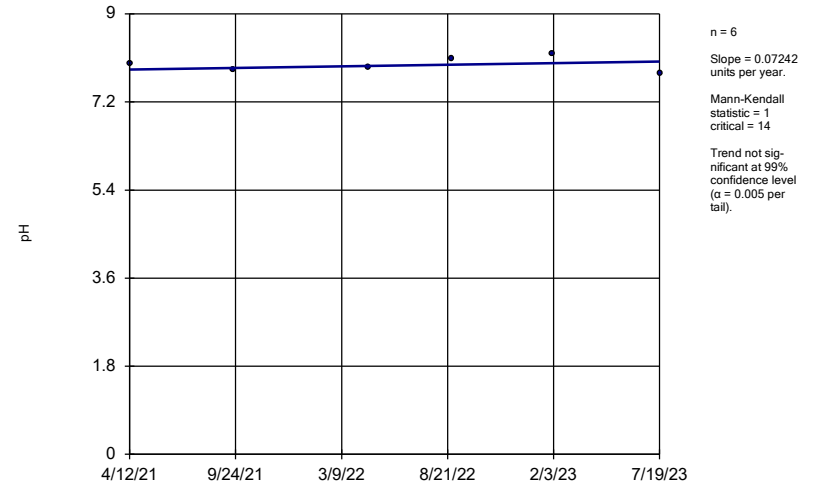
GN-AP-MW-3 (bg)



Constituent: pH Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

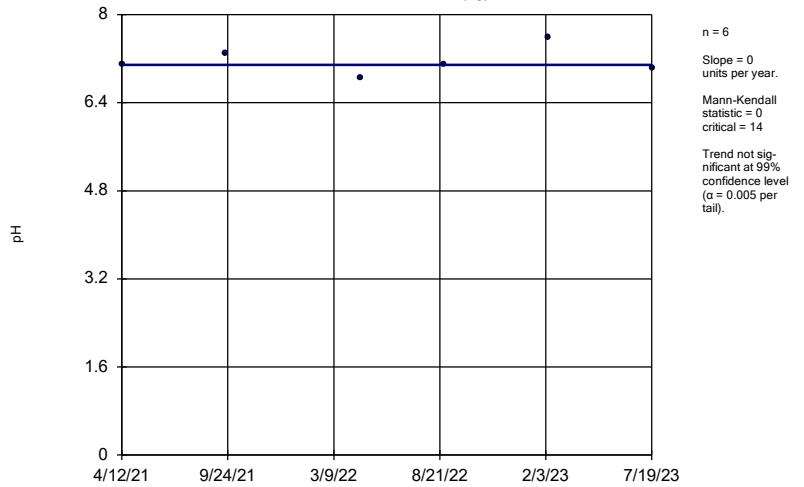
GN-AP-MW-38 (bg)



Constituent: pH Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

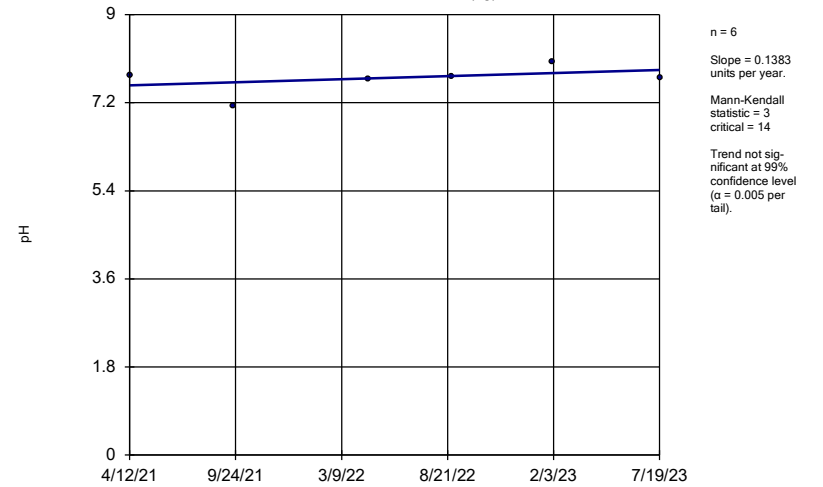
GN-AP-MW-39 (bg)



Constituent: pH Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

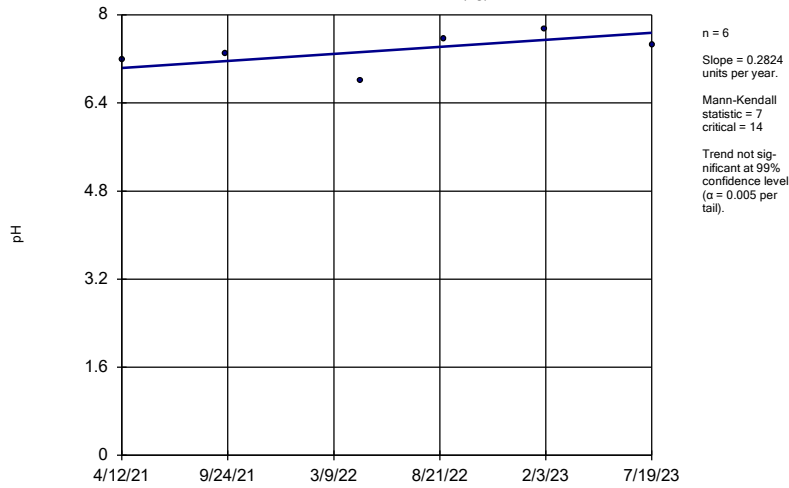
GN-AP-MW-40 (bg)



Constituent: pH Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

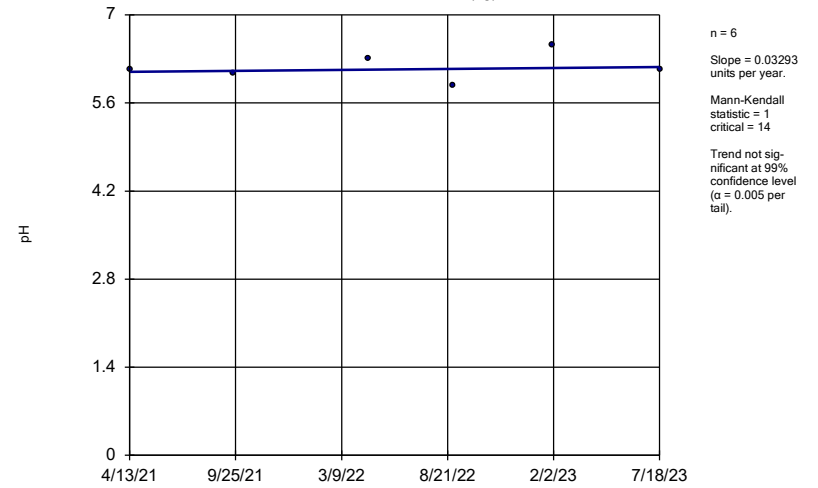
GN-AP-MW-41 (bg)



Constituent: pH Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

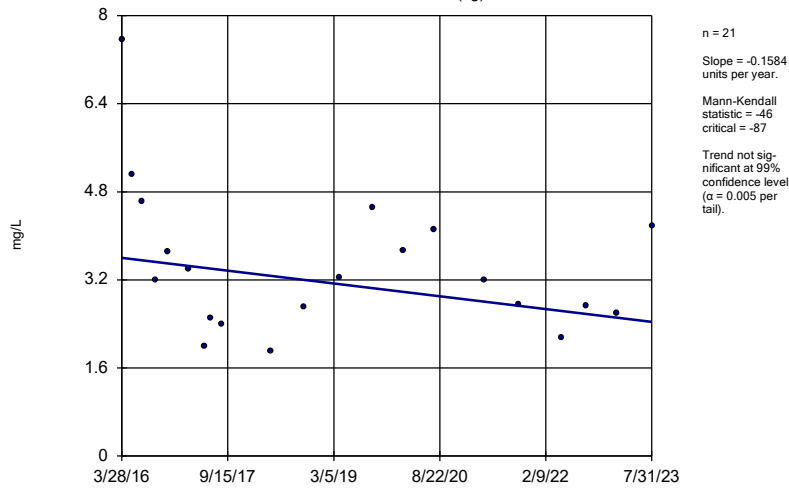
GN-AP-MW-42 (bg)



Constituent: pH Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

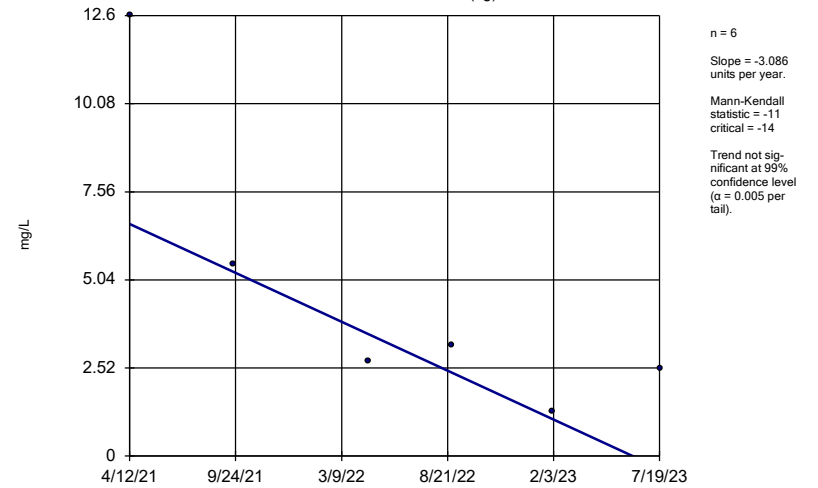
GN-AP-MW-3 (bg)



Constituent: Sulfate Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

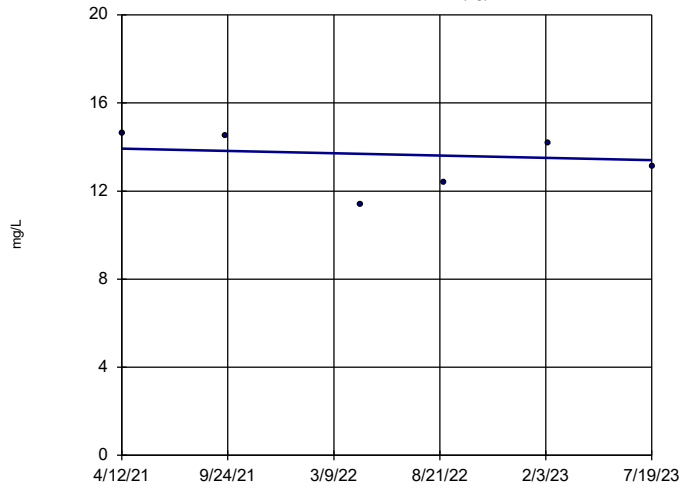
GN-AP-MW-38 (bg)



Constituent: Sulfate Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)



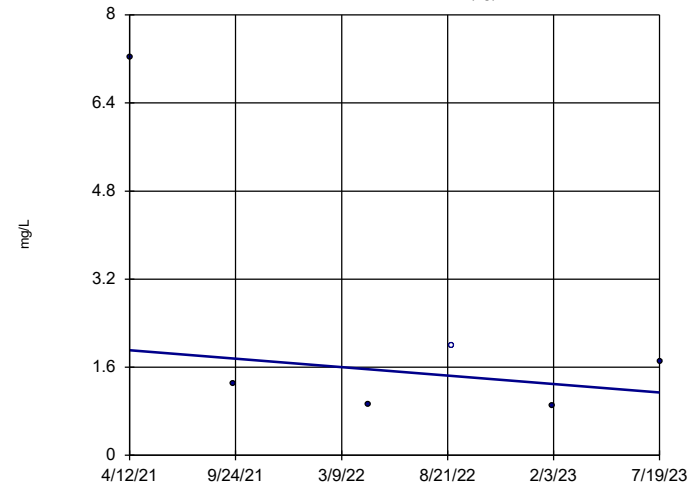
n = 6
 Slope = -0.2253
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-40 (bg)

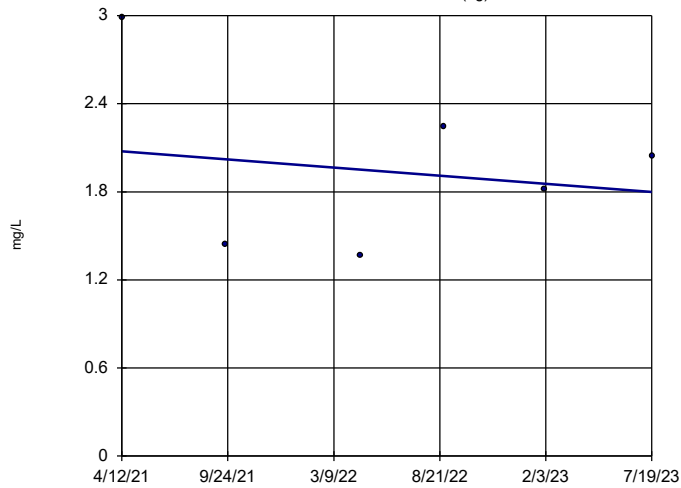


n = 6
 Slope = -0.338
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-41 (bg)

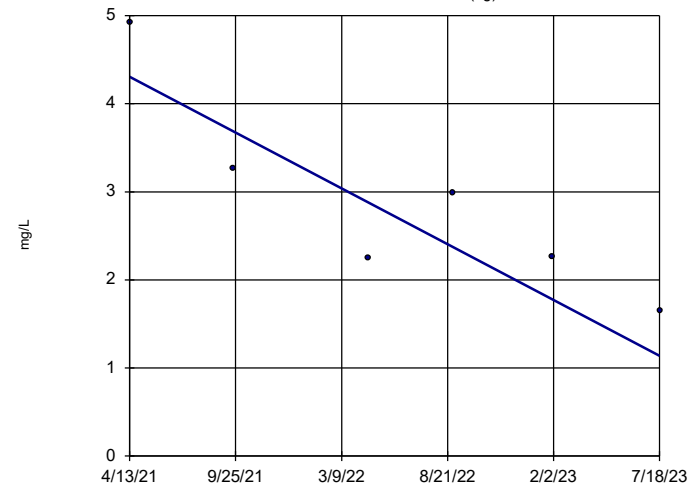


n = 6
 Slope = -0.1217
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)

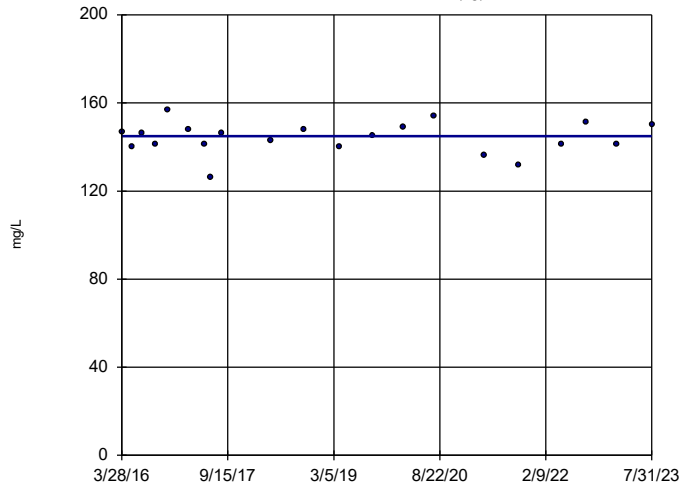


n = 6
 Slope = -1.4
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

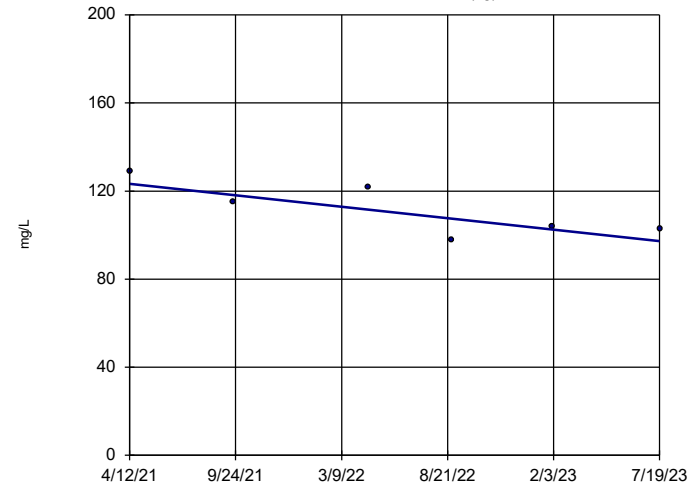


n = 21
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)

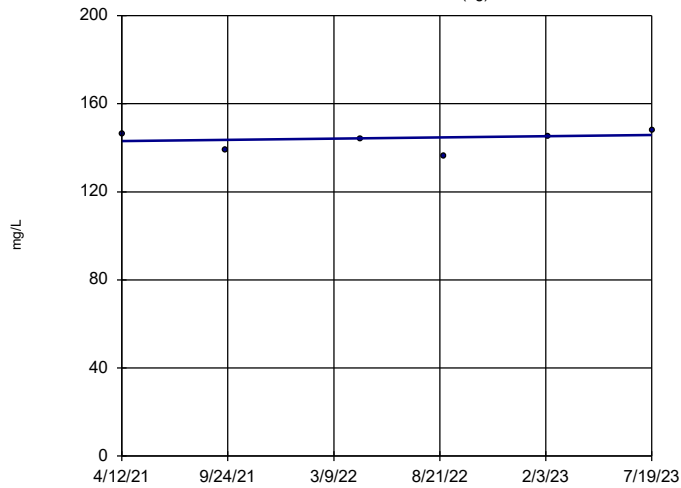


n = 6
 Slope = -11.46
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/4/2023 9:55 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)

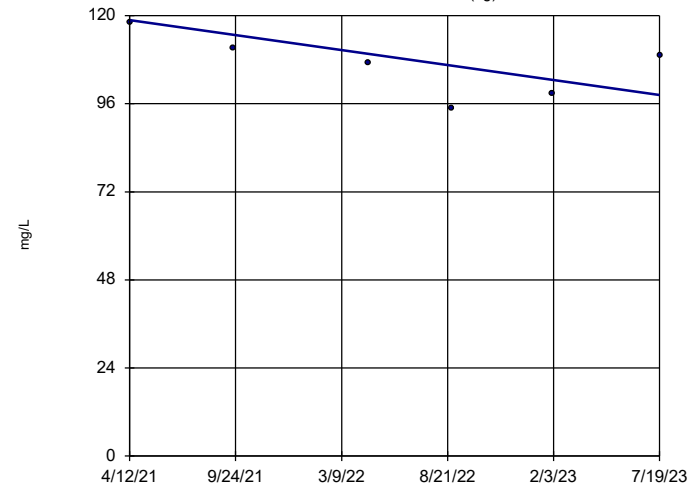


n = 6
 Slope = 1.241
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/4/2023 9:56 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-40 (bg)

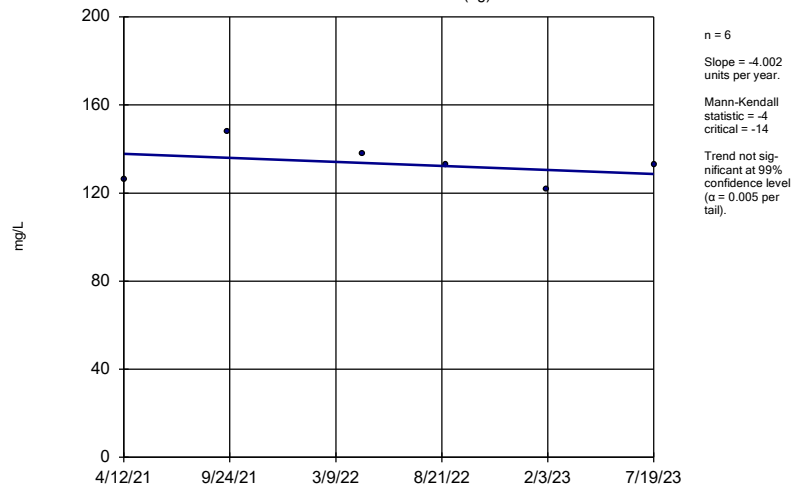


n = 6
 Slope = -9.015
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/4/2023 9:56 PM View: Appendix III - Upgradient Wells Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

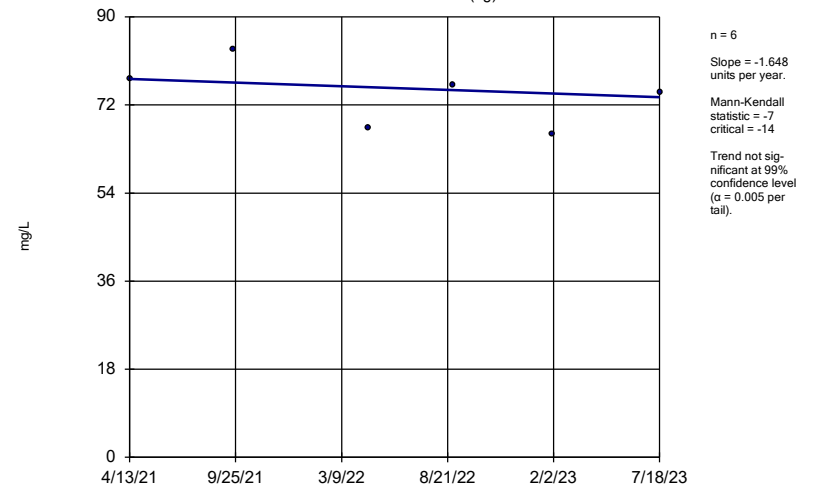
GN-AP-MW-41 (bg)



Constituent: TDS Analysis Run 10/4/2023 9:56 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)



Constituent: TDS Analysis Run 10/4/2023 9:56 PM View: Appendix III - Upgradient Wells Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.1015	n/a	7/31/2023	0.371	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-12	0.1015	n/a	7/18/2023	0.483	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-15R	0.1015	n/a	8/1/2023	2.1	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-16	0.1015	n/a	7/19/2023	1.51	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-17	0.1015	n/a	7/25/2023	3.56	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-18	0.1015	n/a	7/25/2023	1.65	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-20	0.1015	n/a	7/25/2023	4.79	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-21	0.1015	n/a	7/26/2023	1.33	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-22	0.1015	n/a	8/1/2023	0.833	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-5	0.1015	n/a	8/1/2023	0.464	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-6	0.1015	n/a	7/26/2023	1.41	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-7	0.1015	n/a	7/26/2023	1.16	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-11	38.28	n/a	7/31/2023	44.6	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-12	38.28	n/a	7/18/2023	69.3	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-13	38.28	n/a	7/19/2023	45.6	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-14	38.28	n/a	7/26/2023	53.8	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-15R	38.28	n/a	8/1/2023	95.2	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-16	38.28	n/a	7/19/2023	177	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-17	38.28	n/a	7/25/2023	379	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-18	38.28	n/a	7/25/2023	128	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-19	38.28	n/a	7/18/2023	52.9	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-20	38.28	n/a	7/25/2023	165	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-21	38.28	n/a	7/26/2023	70.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-22	38.28	n/a	8/1/2023	63.2	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-4	38.28	n/a	7/25/2023	47.5	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-5	38.28	n/a	8/1/2023	48.4	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-6	38.28	n/a	7/26/2023	61.8	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-7	38.28	n/a	7/26/2023	59.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-8	38.28	n/a	7/19/2023	60.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-11	5.645	n/a	7/31/2023	7.77	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-12	5.645	n/a	7/18/2023	18.7	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-15R	5.645	n/a	8/1/2023	86.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-16	5.645	n/a	7/19/2023	180	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-17	5.645	n/a	7/25/2023	532	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-18	5.645	n/a	7/25/2023	13.3	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-19	5.645	n/a	7/18/2023	14.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-20	5.645	n/a	7/25/2023	18.9	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-21	5.645	n/a	7/26/2023	21.8	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-22	5.645	n/a	8/1/2023	13.2	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-4	5.645	n/a	7/25/2023	8.49	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-5	5.645	n/a	8/1/2023	10.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-6	5.645	n/a	7/26/2023	14.9	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-7	5.645	n/a	7/26/2023	11.4	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-9	5.645	n/a	7/18/2023	9.03	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
pH (pH)	GN-AP-MW-17	8.18	5.87	7/25/2023	9.16	Yes	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-11	14.51	n/a	7/31/2023	69	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-12	14.51	n/a	7/18/2023	113	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-14	14.51	n/a	7/26/2023	91.9	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-15R	14.51	n/a	8/1/2023	233	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-16	14.51	n/a	7/19/2023	234	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-17	14.51	n/a	7/25/2023	493	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-18	14.51	n/a	7/25/2023	216	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-19	14.51	n/a	7/18/2023	28.2	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-20	14.51	n/a	7/25/2023	614	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-21	14.51	n/a	7/26/2023	108	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-22	14.51	n/a	8/1/2023	59.3	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-5	14.51	n/a	8/1/2023	20.7	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-6	14.51	n/a	7/26/2023	93.9	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-7	14.51	n/a	7/26/2023	91.8	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-9	14.51	n/a	7/18/2023	20.8	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-11	182.6	n/a	7/31/2023	242	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-12	182.6	n/a	7/18/2023	372	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-13	182.6	n/a	7/19/2023	199	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-14	182.6	n/a	7/26/2023	283	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-15R	182.6	n/a	8/1/2023	580	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-16	182.6	n/a	7/19/2023	746	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-17	182.6	n/a	7/25/2023	2010	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-18	182.6	n/a	7/25/2023	620	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:07 PM

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-19	182.6	n/a	7/18/2023	232	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-20	182.6	n/a	7/25/2023	950	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-21	182.6	n/a	7/26/2023	376	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-22	182.6	n/a	8/1/2023	299	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-4	182.6	n/a	7/25/2023	244	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-5	182.6	n/a	8/1/2023	228	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-6	182.6	n/a	7/26/2023	343	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-7	182.6	n/a	7/26/2023	312	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-8	182.6	n/a	7/19/2023	243	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-9	182.6	n/a	7/18/2023	219	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GN-AP-MW-10	0.1015	n/a	7/18/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-11	0.1015	n/a	7/31/2023	0.371	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-12	0.1015	n/a	7/18/2023	0.483	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-13	0.1015	n/a	7/19/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-14	0.1015	n/a	7/26/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-15R	0.1015	n/a	8/1/2023	2.1	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-16	0.1015	n/a	7/19/2023	1.51	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-17	0.1015	n/a	7/25/2023	3.56	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-18	0.1015	n/a	7/25/2023	1.65	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-19	0.1015	n/a	7/18/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-20	0.1015	n/a	7/25/2023	4.79	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-21	0.1015	n/a	7/26/2023	1.33	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-22	0.1015	n/a	8/1/2023	0.833	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-4	0.1015	n/a	7/25/2023	0.0943J	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-5	0.1015	n/a	8/1/2023	0.464	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-6	0.1015	n/a	7/26/2023	1.41	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-7	0.1015	n/a	7/26/2023	1.16	Yes	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-8	0.1015	n/a	7/19/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Boron (mg/L)	GN-AP-MW-9	0.1015	n/a	7/18/2023	0.1015ND	No	64	n/a	n/a	98.44	n/a	n/a	0.0004553	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GN-AP-MW-10	38.28	n/a	7/18/2023	38	No	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-11	38.28	n/a	7/31/2023	44.6	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-12	38.28	n/a	7/18/2023	69.3	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-13	38.28	n/a	7/19/2023	45.6	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-14	38.28	n/a	7/26/2023	53.8	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-15R	38.28	n/a	8/1/2023	95.2	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-16	38.28	n/a	7/19/2023	177	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-17	38.28	n/a	7/25/2023	379	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-18	38.28	n/a	7/25/2023	128	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-19	38.28	n/a	7/18/2023	52.9	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-20	38.28	n/a	7/25/2023	165	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-21	38.28	n/a	7/26/2023	70.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-22	38.28	n/a	8/1/2023	63.2	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-4	38.28	n/a	7/25/2023	47.5	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-5	38.28	n/a	8/1/2023	48.4	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-6	38.28	n/a	7/26/2023	61.8	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-7	38.28	n/a	7/26/2023	59.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-8	38.28	n/a	7/19/2023	60.1	Yes	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Calcium (mg/L)	GN-AP-MW-9	38.28	n/a	7/18/2023	30.2	No	63	26110	13853	0	None	x^3	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-10	5.645	n/a	7/18/2023	2.72	No	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-11	5.645	n/a	7/31/2023	7.77	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-12	5.645	n/a	7/18/2023	18.7	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-13	5.645	n/a	7/19/2023	4.19	No	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-14	5.645	n/a	7/26/2023	4.43	No	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-15R	5.645	n/a	8/1/2023	86.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-16	5.645	n/a	7/19/2023	180	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-17	5.645	n/a	7/25/2023	532	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-18	5.645	n/a	7/25/2023	13.3	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-19	5.645	n/a	7/18/2023	14.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-20	5.645	n/a	7/25/2023	18.9	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-21	5.645	n/a	7/26/2023	21.8	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-22	5.645	n/a	8/1/2023	13.2	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-4	5.645	n/a	7/25/2023	8.49	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-5	5.645	n/a	8/1/2023	10.1	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-6	5.645	n/a	7/26/2023	14.9	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-7	5.645	n/a	7/26/2023	11.4	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-8	5.645	n/a	7/19/2023	3.51	No	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Chloride (mg/L)	GN-AP-MW-9	5.645	n/a	7/18/2023	9.03	Yes	64	0.8872	0.3901	1.563	None	ln(x)	0.000396	Param Inter 1 of 2
Fluoride (mg/L)	GN-AP-MW-10	0.181	n/a	7/18/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-11	0.181	n/a	7/31/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-12	0.181	n/a	7/18/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-13	0.181	n/a	7/19/2023	0.0611J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-14	0.181	n/a	7/26/2023	0.104J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-15R	0.181	n/a	8/1/2023	0.0627J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-16	0.181	n/a	7/19/2023	0.111J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-17	0.181	n/a	7/25/2023	0.102J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride														

Appendix III Interwell Prediction Limits - All Results

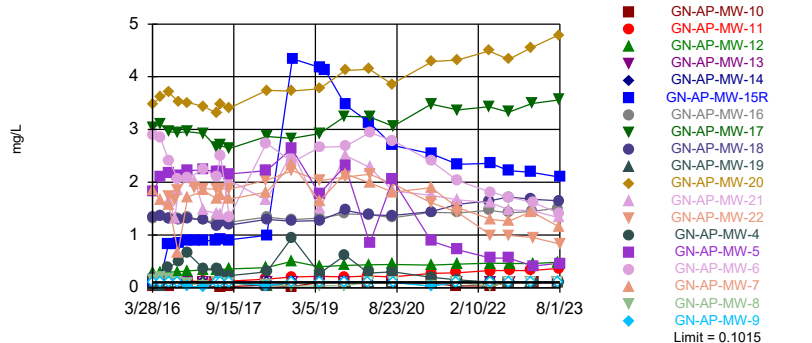
Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:07 PM

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-21	0.181	n/a	7/26/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-22	0.181	n/a	8/1/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-4	0.181	n/a	7/25/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-5	0.181	n/a	8/1/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-6	0.181	n/a	7/26/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-7	0.181	n/a	7/26/2023	0.125ND	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-8	0.181	n/a	7/19/2023	0.0855J	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GN-AP-MW-9	0.181	n/a	7/18/2023	0.134	No	66	n/a	n/a	60.61	n/a	n/a	0.0004297	NP Inter (NDs) 1 of 2
pH (pH)	GN-AP-MW-10	8.18	5.87	7/18/2023	7.05	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-11	8.18	5.87	7/31/2023	7.73	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-12	8.18	5.87	7/18/2023	7.26	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-13	8.18	5.87	7/19/2023	7.36	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-14	8.18	5.87	7/26/2023	7.36	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-15R	8.18	5.87	8/1/2023	7.48	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-16	8.18	5.87	7/19/2023	7.84	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-17	8.18	5.87	7/25/2023	9.16	Yes	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-18	8.18	5.87	7/25/2023	6.9	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-19	8.18	5.87	7/18/2023	7.61	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-20	8.18	5.87	7/25/2023	7.91	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-21	8.18	5.87	7/26/2023	7.44	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-22	8.18	5.87	8/1/2023	6.88	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-4	8.18	5.87	7/25/2023	7.2	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-5	8.18	5.87	8/1/2023	7.45	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-6	8.18	5.87	7/26/2023	7.05	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-7	8.18	5.87	7/26/2023	7.35	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-8	8.18	5.87	7/19/2023	7.24	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
pH (pH)	GN-AP-MW-9	8.18	5.87	7/18/2023	7.64	No	65	n/a	n/a	0	n/a	n/a	0.0008849	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GN-AP-MW-10	14.51	n/a	7/18/2023	4.01	No	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-11	14.51	n/a	7/31/2023	69	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-12	14.51	n/a	7/18/2023	113	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-13	14.51	n/a	7/19/2023	3.14	No	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-14	14.51	n/a	7/26/2023	91.9	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-15R	14.51	n/a	8/1/2023	233	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-16	14.51	n/a	7/19/2023	234	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-17	14.51	n/a	7/25/2023	493	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-18	14.51	n/a	7/25/2023	216	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-19	14.51	n/a	7/18/2023	28.2	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-20	14.51	n/a	7/25/2023	614	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-21	14.51	n/a	7/26/2023	108	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-22	14.51	n/a	8/1/2023	59.3	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-4	14.51	n/a	7/25/2023	11.4	No	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-5	14.51	n/a	8/1/2023	20.7	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-6	14.51	n/a	7/26/2023	93.9	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-7	14.51	n/a	7/26/2023	91.8	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-8	14.51	n/a	7/19/2023	3.93	No	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
Sulfate (mg/L)	GN-AP-MW-9	14.51	n/a	7/18/2023	20.8	Yes	64	1.135	0.7118	3.125	None	ln(x)	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-10	182.6	n/a	7/18/2023	166	No	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-11	182.6	n/a	7/31/2023	242	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-12	182.6	n/a	7/18/2023	372	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-13	182.6	n/a	7/19/2023	199	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-14	182.6	n/a	7/26/2023	283	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-15R	182.6	n/a	8/1/2023	580	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-16	182.6	n/a	7/19/2023	746	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-17	182.6	n/a	7/25/2023	2010	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-18	182.6	n/a	7/25/2023	620	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-19	182.6	n/a	7/18/2023	232	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-20	182.6	n/a	7/25/2023	950	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-21	182.6	n/a	7/26/2023	376	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-22	182.6	n/a	8/1/2023	299	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-4	182.6	n/a	7/25/2023	244	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-5	182.6	n/a	8/1/2023	228	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-6	182.6	n/a	7/26/2023	343	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-7	182.6	n/a	7/26/2023	312	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-8	182.6	n/a	7/19/2023	243	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2
TDS (mg/L)	GN-AP-MW-9	182.6	n/a	7/18/2023	219	Yes	64	18565	6836	0	None	x^2	0.000396	Param Inter 1 of 2

Sanitas™ v.10.0.12 - 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



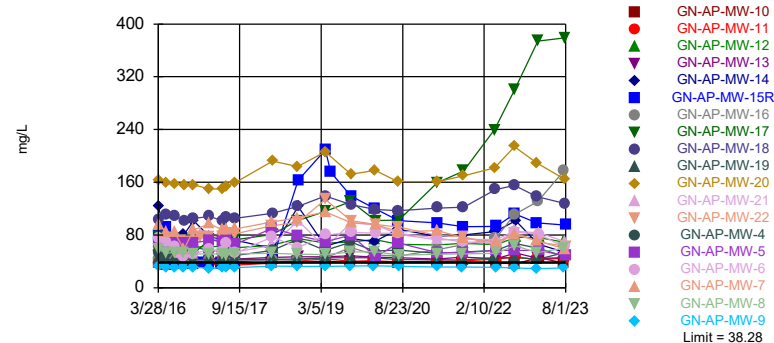
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 64 background values. 98.44% NDs. Annual per-constituent alpha = 0.01716. Individual comparison alpha = 0.0004553 (1 of 2). Comparing 19 points to limit.

Constituent: Boron Analysis Run 10/6/2023 12:03 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.10.0.12 - 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



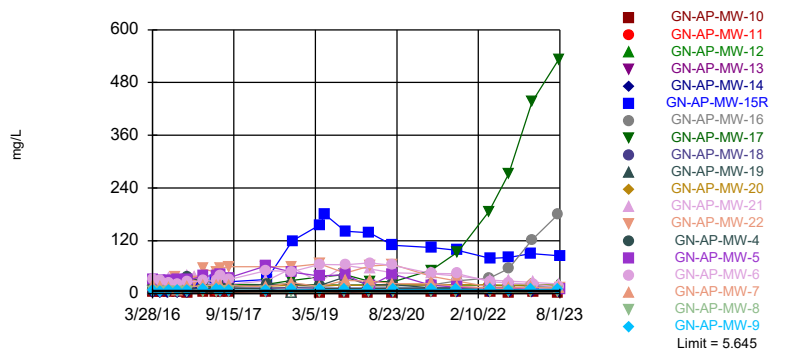
Background Data Summary (based on cube transformation): Mean=26110, Std. Dev.=13853, n=63. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9667, critical = 0.947. Kappa = 2.164 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

Constituent: Calcium Analysis Run 10/6/2023 12:03 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.10.0.12 - 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 Parametric



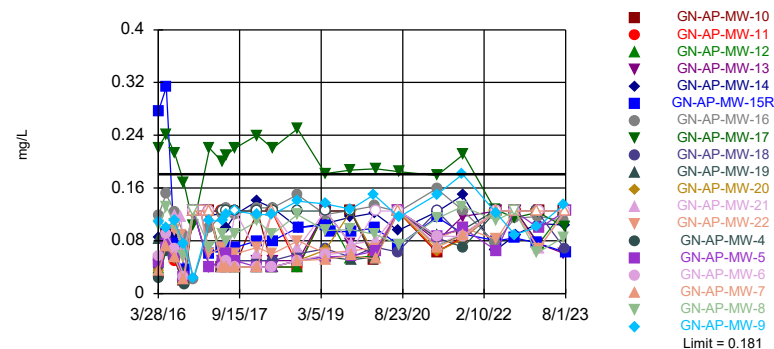
Background Data Summary (based on natural log transformation): Mean=0.8872, Std. Dev.=0.3901, n=64, 1.563% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9494, critical = 0.947. Kappa = 2.163 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

Constituent: Chloride Analysis Run 10/6/2023 12:03 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sanitas™ v.10.0.12 - UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

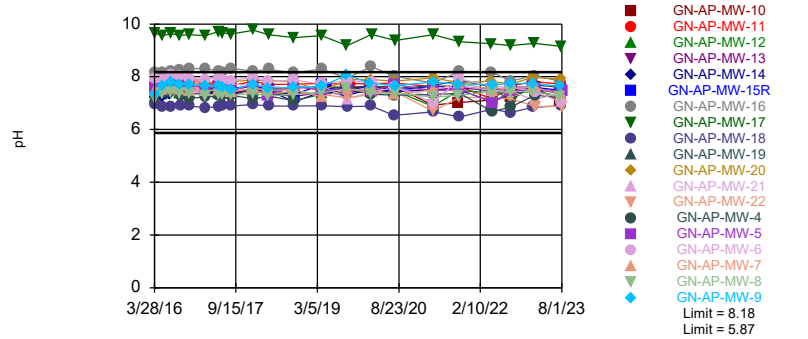


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 66 background values. 60.61% NDs. Annual per-constituent alpha = 0.0162. Individual comparison alpha = 0.0004297 (1 of 2). Comparing 19 points to limit.

Constituent: Fluoride Analysis Run 10/6/2023 12:03 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Exceeds Limits: GN-AP-MW-17

Prediction Limit Interwell Non-parametric



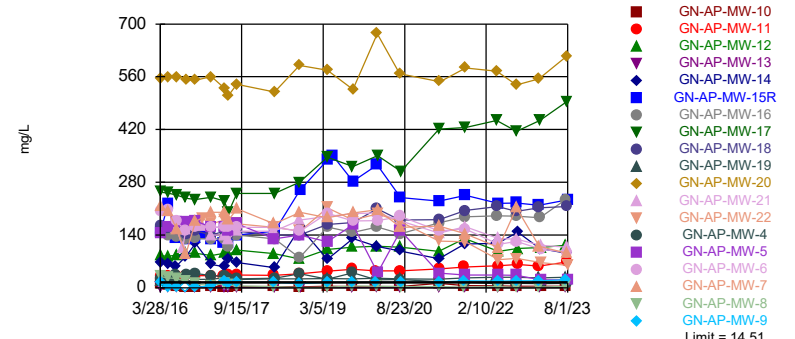
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 65 background values. Annual per-constituent alpha = 0.03335. Individual comparison alpha = 0.0008849 (1 of 2). Comparing 19 points to limit.

Constituent: pH Analysis Run 10/6/2023 12:03 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

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

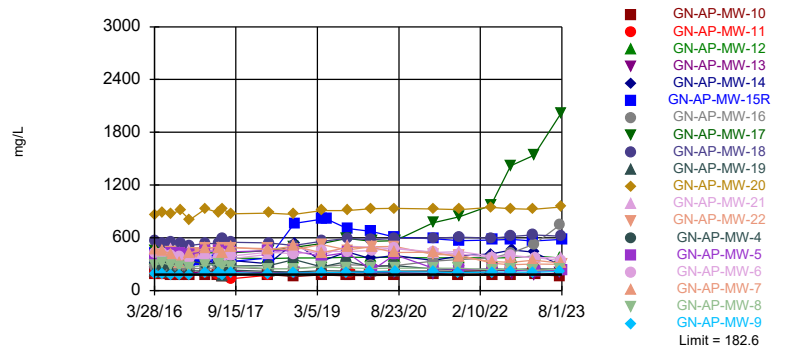


Background Data Summary (based on natural log transformation): Mean=1.135, Std. Dev.=0.7118, n=64, 3.125% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9483, critical = 0.947. Kappa = 2.163 (c=7, w=19, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000396. Comparing 19 points to limit.

Constituent: Sulfate Analysis Run 10/6/2023 12:03 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

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=18565, Std. Dev.=6836, n=64. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.959, critical = 0.947. Kappa = 2.163 (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 10/6/2023 12:03 PM View: Appendix III - PLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-16
3/28/2016	<0.1015	<0.1015	0.0538 (J)	<0.1015	0.103				
3/29/2016						3.48	3.04	1.33	1.32
3/30/2016									
4/4/2016									
5/17/2016	<0.1015	<0.1015					3.1	1.37	1.35
5/18/2016			0.0252 (J)	<0.1015		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	2.92	1.29	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	2.66	1.17	1.24
6/19/2017	<0.1015			<0.1015		3.48	2.7	1.24	1.26
6/20/2017					0.91				
6/21/2017		<0.1015	<0.1015						
8/14/2017			<0.1015		0.906	3.4	2.64	1.19	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	0.0258 (J)	<0.1015	0.991	3.74	2.87	1.3	1.34
10/1/2018						3.73	2.83	1.26	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	2.92	1.27	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 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-18	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		3.48	1.44	
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								
8/29/2022									
8/30/2022	<0.1015		<0.1015			4.33	3.33	1.72	1.42
8/31/2022					2.22				
9/6/2022		<0.1015							
9/7/2022									
1/24/2023					2.19	4.55		1.68	
1/25/2023			<0.1015						
1/30/2023							3.49		1.45
1/31/2023		<0.1015							
2/1/2023									
2/6/2023									
2/7/2023	<0.1015								
7/18/2023			<0.1015						
7/19/2023									1.51
7/25/2023						4.79	3.56	1.65	
7/26/2023		<0.1015							
7/31/2023	<0.1015								
8/1/2023					2.1				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-10
3/28/2016									
3/29/2016	0.161								
3/30/2016		0.112	<0.1015	0.193	1.82	0.287	2.89	1.85	0.0291 (J)
4/4/2016									
5/17/2016				0.201					0.0466 (J)
5/18/2016		0.118	<0.1015			0.286			
5/19/2016							2.84	1.66	
5/23/2016	0.197				2.11				
7/11/2016				0.375					
7/12/2016	0.17								
7/13/2016		0.125				0.299	2.41	1.58	0.0305 (J)
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	0.108			2.13		2.06	0.674	<0.1015
9/14/2016				0.507					
11/14/2016		0.126	<0.1015			0.323			
11/15/2016	0.0853 (J)				2.22		2.08	1.72	<0.1015
11/16/2016				0.655					
1/3/2017									
2/27/2017									
2/28/2017	0.0452 (J)	0.12	<0.1015	0.364		0.336			<0.1015
3/1/2017					2.24		2.25	1.84	
5/22/2017		0.116							<0.1015
5/23/2017					2.2		2.11	1.69	
5/24/2017	0.113		<0.1015	0.352		0.342			
6/19/2017		0.12							0.0204 (J)
6/20/2017	0.0853 (J)				2.2		2.5	1.75	
6/21/2017			<0.1015	0.263		0.342			
8/14/2017		0.124	<0.1015			0.359			0.0242 (J)
8/15/2017	0.0862 (J)			0.23	2.16		1.34	1.68	
8/16/2017									
4/16/2018		0.163				0.384			0.0466 (J)
4/17/2018	0.0649 (J)				2.22		2.74	1.81	
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		0.206				0.503	2.38	2.34	
10/5/2018			<0.1015						
4/1/2019	0.0345 (J)								
4/2/2019				0.271	1.78		2.66	1.64	
4/3/2019		0.216	<0.1015			0.401			<0.1015
5/7/2019									
9/16/2019		0.207				0.423			<0.1015
9/17/2019	0.0439 (J)		<0.1015	0.619					
9/18/2019					2.31		2.68	2.16	
2/17/2020		0.221							<0.1015
2/18/2020				0.281		0.433			
2/19/2020			<0.1015						
2/25/2020	<0.1015								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-10
2/26/2020					0.84		2.94	1.99	
7/22/2020		0.205							<0.1015
7/23/2020									
7/27/2020			<0.1015	0.3		0.444			
7/28/2020					2.05		2.79	1.81	
7/29/2020	<0.1015								
4/5/2021		0.271		0.2		0.427			0.0854 (J)
4/6/2021	0.0327 (J)		<0.1015						
4/7/2021					0.885		2.4	1.9	
4/12/2021									
4/13/2021									
9/21/2021	<0.1015	0.283							0.0378 (J)
9/22/2021			<0.1015			0.447			
9/27/2021				0.149	0.721		2.03	1.52	
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	0.0313 (J)	0.324	<0.1015	0.109					0.0352 (J)
5/3/2022					0.562	0.465	1.81	1.3	
8/29/2022									
8/30/2022				0.112	0.562		1.72	1.26	
8/31/2022	<0.1015								<0.1015
9/6/2022		0.326				0.459			
9/7/2022			<0.1015						
1/24/2023									
1/25/2023	<0.1015	0.327						1.44	
1/30/2023									
1/31/2023									
2/1/2023			<0.1015						
2/6/2023					0.412	0.463	1.62		<0.1015
2/7/2023				0.0979 (J)					
7/18/2023						0.483			<0.1015
7/19/2023	<0.1015		<0.1015						
7/25/2023				0.0943 (J)					
7/26/2023							1.41	1.16	
7/31/2023		0.371							
8/1/2023					0.464				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 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 10/6/2023 12:07 PM View: Appendix III - PLs
 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					
8/29/2022				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
8/30/2022		1.48	0.992					
8/31/2022	<0.1015							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	<0.1015							
1/30/2023								
1/31/2023								
2/1/2023				<0.1015		<0.1015	<0.1015	<0.1015
2/6/2023		1.46	0.95					
2/7/2023					<0.1015			
7/18/2023	<0.1015							<0.1015
7/19/2023				<0.1015	<0.1015	<0.1015	<0.1015	
7/25/2023								
7/26/2023		1.33						
7/31/2023								
8/1/2023			0.833					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-16
3/28/2016	31.6	124	46	34.2	79.7				
3/29/2016						163	77.4	104	43.2
3/30/2016									
4/4/2016									
5/17/2016	29.6	74.6					70.3	110	41.4
5/18/2016			42.9	32.6		160			
5/19/2016					91.5				
5/23/2016									
7/11/2016	30	68.9		32.5	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		80.3	44.1				70.7		39.6
9/14/2016	30.6			32.1	36.5	156		101	
11/14/2016						156		105	41
11/15/2016		102			36.8				
11/16/2016	30.4		42.7	33.4			51.7		
1/3/2017					38				
2/27/2017		77.9	43.1		36.8				
2/28/2017						150	73.1	108	41.8
3/1/2017	<0.5 (o)			33.3					
5/22/2017			41.9		36.9				
5/23/2017	30.1			32.7					
5/24/2017		72.9				150	70.6	102	39.8
6/19/2017	29.9			32.6		153	67.7	107	40.2
6/20/2017					36.9				
6/21/2017		80	41.8						
8/14/2017			43		39.5	159	72.8	105	41.3
8/15/2017	28.1	72.1		31.5					
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	31.2	59.6	43.2	34.2	43.4	192	80.8	113	42.3
10/1/2018						184	102	123	41.5
10/2/2018			43.8						
10/3/2018	32.3			38.6					
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	206	116	139	45.7
5/7/2019					175				
9/16/2019									61.3
9/17/2019	31.7	74.9					131		
9/18/2019			45.6	35	139	172		126	
2/17/2020									
2/18/2020			45.5						
2/19/2020	32.3	69.9							
2/25/2020					120	178		119	50

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-16
2/26/2020							102		
7/22/2020						161		117	
7/23/2020		88.6							
7/27/2020	31		42.6						
7/28/2020					102				48.1
7/29/2020							103		
4/5/2021	30.6		42.6						57.6
4/6/2021		78.2			98.6		159	121	
4/7/2021									
4/12/2021						161			
4/13/2021									
9/21/2021									
9/22/2021		80	42.1						
9/27/2021	30.7								
9/28/2021					92.5	170		122	65.3
9/29/2021							177		
4/19/2022			45.6						
4/20/2022						182	240		
4/26/2022								149	
4/27/2022		85.3							74.9
5/2/2022					93.2				
5/3/2022	29.9								
8/29/2022									
8/30/2022	30.6		45.799999			214	300	155	111
8/31/2022					112				
9/6/2022		102							
9/7/2022									
1/24/2023					98.300003	189		138	
1/25/2023			43						
1/30/2023							374		131
1/31/2023		66.599998							
2/1/2023									
2/6/2023									
2/7/2023	29								
7/18/2023			52.900002						
7/19/2023									177
7/25/2023						165	379	128	
7/26/2023		53.799999							
7/31/2023	32.700001								
8/1/2023					95.199997				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-10
2/26/2020					46.8		83.1	95.8	
7/22/2020		39							38.5
7/23/2020									
7/27/2020			45.5	57		65.7			
7/28/2020					67.8		82.5	84.9	
7/29/2020	49.4								
4/5/2021		40.1		52.2		64.8			40
4/6/2021	51.1		43.8						
4/7/2021					53.3		75.5	86.8	
4/12/2021									
4/13/2021									
9/21/2021	51.4	40.9							38.4
9/22/2021			46.6			67.3			
9/27/2021				54.4	53.1		69.2	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	43.4	44.1	56.8					37.8
5/3/2022					56.6	65.3	68.8	69	
8/29/2022									
8/30/2022				67.400002	56.599998		84.599998	81.199997	
8/31/2022	64								36.400002
9/6/2022		46.700001				76.800003			
9/7/2022			52.700001						
1/24/2023									
1/25/2023	53.099998	43						71.400002	
1/30/2023									
1/31/2023									
2/1/2023			44.799999						
2/6/2023					56.700001	76.300003	81.5		45.400002
2/7/2023				59.700001					
7/18/2023						69.300003			38
7/19/2023	60.099998		45.599998						
7/25/2023				47.5					
7/26/2023							61.799999	59.099998	
7/31/2023		44.599998							
8/1/2023					48.400002				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

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-38 (bg)	GN-AP-MW-39 (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	23.2	35	22.9	
4/13/2021								11.7
9/21/2021	31.5			31.7	22.3	36.1	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	23.3	36.4	21.6	11
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	30.9							
5/3/2022		73	64					
8/29/2022				30.799999	23.1	36.400002	21.299999	13.3
8/30/2022		85.599998	83.699997					
8/31/2022	29.9							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	29.1							
1/30/2023								
1/31/2023								
2/1/2023				27.200001	21.200001		20	11.7
2/6/2023		83.300003	69.400002					
2/7/2023						35.200001		
7/18/2023	30.200001							12.2
7/19/2023				28.200001	20.4	35.299999	21.700001	
7/25/2023								
7/26/2023		70.099998						
7/31/2023								
8/1/2023			63.200001					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-16
3/28/2016	2.48	2.11	9.86	1.73	21.9				
3/29/2016						17.2	14.7	11.1	10.8
3/30/2016									
4/4/2016									
5/17/2016	1.9	2.38					13.8	10.3	10
5/18/2016			9.4	1.4		16.2			
5/19/2016					20.9				
5/23/2016									
7/11/2016	1.93	2.42		1.73	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		10.2	3.57			14.2		
1/3/2017					24.1				
2/27/2017		5.8	12		27				
2/28/2017						18	17	12	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	17	13	12
6/19/2017	1.7 (J)			1.9 (J)		18	16	12	11
6/20/2017					27				
6/21/2017		3.6	12						
8/14/2017			12		27	18	17	12	12
8/15/2017	2.1	4.9		5.4					
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	1.7 (J)	6.5	11	1.8 (J)	32	17	21	12	12
10/1/2018						19	30	13	14
10/2/2018			<2						
10/3/2018	1.7 (J)			<2					
10/4/2018									
10/5/2018		3.5			120				
4/1/2019			11.9	1.36					
4/2/2019	1.65								
4/3/2019		5.72			156	17.9	38	12.1	15.9
5/7/2019					180				
9/16/2019									20.4
9/17/2019	1.93	4.16					43.2		
9/18/2019			11.6	1.53	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 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-18	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		52.8	12.4	
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								
8/29/2022									
8/30/2022	1.64		13			19	272	13	56.599998
8/31/2022					82				
9/6/2022		5.29							
9/7/2022									
1/24/2023					91.199997	19.700001		14.1	
1/25/2023			14.1						
1/30/2023							436		122
1/31/2023		5.23							
2/1/2023									
2/6/2023									
2/7/2023	2.32								
7/18/2023			14.1						
7/19/2023									180
7/25/2023						18.9	532	13.3	
7/26/2023		4.43							
7/31/2023	2.96								
8/1/2023					86.099998				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-10
2/26/2020					17.5		69.7	28	
7/22/2020		6.75							2.53
7/23/2020									
7/27/2020			5.2	20.2		19.8			
7/28/2020					44.2		64.2	22.3	
7/29/2020	3.77								
4/5/2021		7.09		12.8		19.7			3.88
4/6/2021	3.9		5.06						
4/7/2021					18.8		45.5	22.4	
4/12/2021									
4/13/2021									
9/21/2021	3.8	7.14							3.39
9/22/2021			4.8			19.7			
9/27/2021				11	14.6		45.3	16.5	
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	3.33	6.86	4.32	8.75					3.2
5/3/2022					12.8	18.9	26.9	12.6	
8/29/2022									
8/30/2022				8.56	12.6		23.9	12	
8/31/2022	2.97								2.43
9/6/2022		7.27				18.4			
9/7/2022			4.55						
1/24/2023									
1/25/2023	3.58	7.78						14.5	
1/30/2023									
1/31/2023									
2/1/2023			4.54						
2/6/2023					9.05	19.700001	21.200001		2.95
2/7/2023				9.01					
7/18/2023						18.700001			2.72
7/19/2023	3.51		4.19						
7/25/2023				8.49					
7/26/2023							14.9	11.4	
7/31/2023		7.77							
8/1/2023					10.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 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					
8/29/2022				4.26	2.06	2.15	1.74	3.29
8/30/2022		28.1	15.3					
8/31/2022	8.1							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	9.4							
1/30/2023								
1/31/2023								
2/1/2023				4.54		2.61	2.05	3.75
2/6/2023		25.700001	13.7					
2/7/2023					2.46			
7/18/2023	9.03							3.57
7/19/2023				4.37	2.14	2.35	2	
7/25/2023								
7/26/2023		21.799999						
7/31/2023								
8/1/2023			13.2					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-15R	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-16	GN-AP-MW-18
3/28/2016	0.032 (J)	0.084 (J)	0.083 (J)	0.276 (J)	0.028 (J)				
3/29/2016						0.035 (J)	0.221 (J)	0.118 (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			0.092 (J)		0.064 (J)	0.076 (J)			
5/19/2016				0.313					
5/23/2016									
7/11/2016	0.057 (J)	0.086 (J)		0.076 (J)	0.054 (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	0.017 (J)			0.036 (J)	0.016 (J)	0.022 (J)			0.025 (J)
11/14/2016						<0.125		0.022 (J)	<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	<0.125	0.06 (J)					
2/28/2017						<0.125	0.22	0.1	0.04 (J)
3/1/2017	<0.125				<0.125				
5/22/2017			0.04 (J)	0.07 (J)					
5/23/2017	<0.125				<0.125				
5/24/2017		0.12				0.04 (J)	0.2	0.12	0.05 (J)
6/19/2017	<0.125				<0.125	0.04 (J)	0.21	0.13	0.05 (J)
6/20/2017				0.07 (J)					
6/21/2017		0.1	0.05 (J)						
8/14/2017			0.04 (J)	0.07 (J)		0.04 (J)	0.22	0.12	0.05 (J)
8/15/2017	<0.125	0.12			<0.125				
8/16/2017									
1/9/2018		0.14		0.08 (J)		0.04 (J)	0.24	0.13	0.05 (J)
1/10/2018	<0.125		0.04 (J)		<0.125				
4/16/2018									
4/17/2018									
4/19/2018	<0.125	0.13	0.04 (J)	0.08 (J)	<0.125	0.04 (J)	0.22	0.13	0.05 (J)
10/1/2018						0.05 (J)	0.25	0.15	0.06 (J)
10/2/2018			0.05 (J)						
10/3/2018	<0.125				0.04 (J)				
10/4/2018									
10/5/2018		0.1		0.1					
4/1/2019			0.0563 (J)		<0.125				
4/2/2019	<0.125								
4/3/2019		0.106		0.104		0.0657 (J)	0.182	0.12	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			0.0507 (J)	0.094 (J)	<0.125	<0.125			0.0551 (J)
2/17/2020									
2/18/2020			0.0557 (J)						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-15R	GN-AP-MW-2 (bg)	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-16	GN-AP-MW-18
2/19/2020	<0.125	0.122							
2/25/2020				0.0995 (J)		0.0566 (J)		0.133	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)		0.0828 (J)		0.125	0.0839 (J)
9/29/2021							0.211		
4/19/2022			<0.125						
4/20/2022						<0.125	0.128		
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								
8/29/2022									
8/30/2022	<0.125		<0.125			<0.125	0.115 (J)	0.114 (J)	<0.125
8/31/2022				0.0842 (J)					
9/6/2022		0.0891 (J)							
9/7/2022									
1/24/2023				0.0768 (J)		<0.125			<0.125
1/25/2023			<0.125						
1/30/2023							0.123 (J)	0.117 (J)	
1/31/2023		0.106 (J)							
2/1/2023									
2/6/2023									
2/7/2023	<0.125								
7/18/2023			<0.125						
7/19/2023								0.111 (J)	
7/25/2023						<0.125	0.102 (J)		0.0686 (J)
7/26/2023		0.104 (J)							
7/31/2023	0.0836 (J)								
8/1/2023				0.0627 (J)					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-10
3/28/2016									
3/29/2016	0.104 (J)								
3/30/2016		0.026 (J)	0.042 (J)	0.023 (J)	0.048 (J)	0.039 (J)	0.056 (J)	0.034 (J)	0.052 (J)
4/4/2016									
5/17/2016				0.065 (J)					0.088 (J)
5/18/2016		0.068 (J)	0.08 (J)			0.078 (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		0.049 (J)				0.058 (J)	0.067 (J)	0.054 (J)	0.06 (J)
7/14/2016			0.06 (J)		0.058 (J)				
7/18/2016									
8/22/2016									
9/12/2016			0.028 (J)			0.023 (J)			
9/13/2016	0.057 (J)	0.018 (J)			0.025 (J)		0.026 (J)	0.021 (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)	<0.125	0.04 (J)	<0.125		<0.125			<0.125
3/1/2017					0.04 (J)		<0.125	<0.125	
5/22/2017		<0.125							0.04 (J)
5/23/2017					0.05 (J)		0.04 (J)	0.04 (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)				0.06 (J)		0.05 (J)	0.04 (J)	
6/21/2017			0.05 (J)	<0.125		0.05 (J)			
8/14/2017		<0.125	0.05 (J)			0.04 (J)			0.04 (J)
8/15/2017	0.09 (J)			<0.125	0.05 (J)		0.04 (J)	0.04 (J)	
8/16/2017									
1/9/2018		<0.125	0.05 (J)		0.04 (J)	0.04 (J)			
1/10/2018	0.11			<0.125			0.04 (J)	0.04 (J)	<0.125
4/16/2018		<0.125				0.04 (J)			0.04 (J)
4/17/2018	0.09 (J)				0.04 (J)		0.04 (J)	<0.125	
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		0.04 (J)				0.04 (J)	0.05 (J)	0.05 (J)	
10/5/2018			0.05 (J)						
4/1/2019	0.0956 (J)								
4/2/2019				<0.125	0.0555 (J)		0.0586 (J)	0.052 (J)	
4/3/2019		<0.125	<0.125			<0.125			<0.125
5/7/2019									
9/16/2019		<0.125				0.0538 (J)			<0.125
9/17/2019	0.0971 (J)		0.0753 (J)	<0.125					
9/18/2019					0.0568 (J)		0.0634 (J)	0.0578 (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 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-10
2/19/2020			0.06 (J)						
2/25/2020	0.0898 (J)								
2/26/2020					0.0647 (J)		<0.125	0.0523 (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		0.0634 (J)		0.0842 (J)		0.0733 (J)			0.0627 (J)
4/6/2021	0.114		0.0794 (J)						
4/7/2021					0.0874 (J)		0.0872 (J)	0.0705 (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				0.0702 (J)	0.0989 (J)		0.0862 (J)	0.0882 (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					0.0648 (J)	<0.125	<0.125	<0.125	
8/29/2022									
8/30/2022				<0.125	<0.125		<0.125	<0.125	
8/31/2022	<0.125								<0.125
9/6/2022		<0.125				<0.125			
9/7/2022			<0.125						
1/24/2023									
1/25/2023	0.0614 (J)	<0.125						<0.125	
1/30/2023									
1/31/2023									
2/1/2023			0.0758 (J)						
2/6/2023					0.0991 (J)	0.0753 (J)	<0.125		<0.125
2/7/2023				<0.125					
7/18/2023						<0.125			<0.125
7/19/2023	0.0855 (J)		0.0611 (J)						
7/25/2023				<0.125					
7/26/2023							<0.125	<0.125	
7/31/2023		<0.125							
8/1/2023					<0.125				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 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-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-39 (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 10/6/2023 12:07 PM View: Appendix III - PLs
 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-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-39 (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				<0.125	0.0651 (J)	<0.125	0.163	
4/13/2021								<0.125
9/21/2021	0.181			0.0969 (J)	0.083 (J)	0.113	0.181	0.0656 (J)
9/22/2021								
9/27/2021		0.0914 (J)	0.1					
9/28/2021								
9/29/2021								
4/19/2022				<0.125	<0.125	<0.125	0.107 (J)	<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)					
8/29/2022				0.0941 (J)	<0.125	<0.125	0.0988 (J)	<0.125
8/30/2022		<0.125	<0.125					
8/31/2022	0.089 (J)							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	0.101 (J)							
1/30/2023								
1/31/2023								
2/1/2023				<0.125	<0.125	<0.125		0.0603 (J)
2/6/2023		0.0676 (J)	0.0686 (J)					
2/7/2023							0.109 (J)	
7/18/2023	0.134							0.098 (J)
7/19/2023				<0.125	<0.125	<0.125	0.107 (J)	
7/25/2023								
7/26/2023		<0.125						
7/31/2023								
8/1/2023			<0.125					

Prediction Limit

Constituent: pH (pH) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-3 (bg)	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-20
2/18/2020			7.64						
2/19/2020	7.52				7.8				
2/25/2020		7.64				8.38		6.89	7.9
2/26/2020							9.61		
7/22/2020								6.54	7.84
7/23/2020	7.44								
7/27/2020			7.56		7.69				
7/28/2020		7.5				8.02			
7/29/2020							9.38		
4/5/2021			7.66		7.67	7.76			
4/6/2021	7.51	7.64					9.59	6.67	
4/7/2021									
4/12/2021									7.96
4/13/2021									
9/21/2021									
9/22/2021	7.5		7.86						
9/27/2021					7.81				
9/28/2021		7.63				8.2		6.48	7.76
9/29/2021							9.33		
4/19/2022			7.63						
4/20/2022							9.25		7.83
4/26/2022								6.77	
4/27/2022	7.07					8.17			
5/2/2022		7.49							
5/3/2022					7.72				
8/29/2022									
8/30/2022			7.1		9.22 (o)	7.84	9.18	6.65	7.73
8/31/2022		7.6							
9/6/2022	7.35								
9/7/2022									
1/24/2023		7.6						6.84	7.98
1/25/2023			7.69						
1/30/2023						8.04	9.27		
1/31/2023	7.62								
2/1/2023									
2/6/2023									
2/7/2023					7.79				
7/18/2023			7.61						
7/19/2023						7.84			
7/25/2023							9.16	6.9	7.91
7/26/2023	7.36								
7/31/2023					7.75				
8/1/2023		7.48							

Prediction Limit

Constituent: pH (pH) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
3/28/2016									
3/29/2016	7.2								
3/30/2016		7.27	7.39	7.31	7.61	7.63	7.95	7.45	7.45
4/4/2016									
5/17/2016				7.35				7.68	
5/18/2016		7.37	7.34			7.64			
5/19/2016							7.88		7.5
5/23/2016	7.39				7.68				
7/11/2016				7.43					
7/12/2016	7.43								
7/13/2016			7.52			7.84	8.07	7.71	7.58
7/14/2016		7.51			7.79				
7/18/2016									
8/22/2016									
9/12/2016		7.39	7.39						
9/13/2016	7.38				7.69	7.69	8.04	7.53	7.53
9/14/2016				7.26					
11/14/2016		7.37	7.42			7.7			
11/15/2016	7.35				7.72		7.93	7.53	7.48
11/16/2016				7.19					
1/3/2017									
2/27/2017									
2/28/2017	7.3	7.32	7.46	7.23		7.79		7.58	
3/1/2017					7.55		7.89		7.46
5/22/2017						7.72		7.51	
5/23/2017					7.64		7.96		7.51
5/24/2017	7.33	7.44	7.39	7.26					
6/19/2017						7.73		7.53	
6/20/2017	7.33				7.5		7.87		7.52
6/21/2017		7.39	7.36	7.26					
8/14/2017		7.39	7.36			7.67		7.52	
8/15/2017	7.31			7.29	7.46		7.86		7.43
8/16/2017									
1/9/2018		7.5	7.45		7.71	7.82			
1/10/2018	7.36			7.17			7.98	7.64	7.57
4/16/2018			7.36			7.71		7.54	
4/17/2018	7.28				7.29		7.82		7.5
4/19/2018		7.38		7.27					
10/1/2018	7.33				7.68				
10/2/2018								7.54	
10/3/2018				7.09					
10/4/2018			7.37			7.71	7.87		7.49
10/5/2018		7.25							
4/1/2019	7.4								
4/2/2019				7.34	7.47		7.73		7.24
4/3/2019		7.41	7.37			7.75		7.6	
5/7/2019									
9/16/2019			7.44			7.71		7.6	
9/17/2019	7.55	7.45		7.65					
9/18/2019					7.53		7.85		7.52
10/8/2019						7.74		7.59	
2/17/2020						7.74		7.61	

Prediction Limit

Constituent: pH (pH) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-13	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-11	GN-AP-MW-6	GN-AP-MW-10	GN-AP-MW-7
2/18/2020			7.42	7.34					
2/19/2020		7.42							
2/25/2020	7.39								
2/26/2020					7.47		7.8		7.51
7/22/2020						7.76		7.64	
7/23/2020									
7/27/2020		7.48	7.47	7.3					
7/28/2020					7.7		7.62		7.32
7/29/2020	7.39								
4/5/2021			6.88	7.33		7.63		6.93	
4/6/2021	7.23	7.5							
4/7/2021					7.47		7.02		7.51
4/12/2021									
4/13/2021									
9/21/2021	7.3					7.64		7.02	
9/22/2021		7.59	7.48						
9/27/2021				7.37	7.55		7.92		7.74
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	7.44	7.46		6.68		7.16		7.12	
5/3/2022			7.39		7.01		7.63		7.53
8/29/2022									
8/30/2022				6.85	7.47		7.6		7.57
8/31/2022	7.44							7.25	
9/6/2022			7.39			7.67			
9/7/2022		7.52							
1/24/2023									
1/25/2023	7.45					7.81			7.61
1/30/2023									
1/31/2023									
2/1/2023		7.55							
2/6/2023			7.45		7.52		7.43	7.6	
2/7/2023				7.3					
7/18/2023			7.26					7.05	
7/19/2023	7.24	7.36							
7/25/2023				7.2					
7/26/2023							7.05		7.35
7/31/2023						7.73			
8/1/2023					7.45				

Prediction Limit

Constituent: pH (pH) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 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-38 (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	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 10/6/2023 12:07 PM View: Appendix III - PLs
 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-38 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-40 (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				7.09	7.99	7.18	7.77	
4/13/2021								6.14
9/21/2021	7.72			7.3	7.85	7.3	7.12	6.07
9/22/2021								
9/27/2021		7.64	7.23					
9/28/2021								
9/29/2021								
4/19/2022				6.85	7.91	6.8	7.68	6.31
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	7.7							
5/3/2022		7.48	7.21					
8/29/2022				7.09	8.09	7.57	7.73	5.87
8/30/2022		7.45	7.17					
8/31/2022	7.74							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	7.75							
1/30/2023								
1/31/2023								
2/1/2023					8.18	7.75	8.04	6.52
2/6/2023		7.12	6.88					
2/7/2023				7.58				
7/18/2023	7.64							6.13
7/19/2023				7.04	7.78	7.45	7.71	
7/25/2023								
7/26/2023		7.44						
7/31/2023								
8/1/2023			6.88					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-18	GN-AP-MW-16
3/28/2016	7.57	66.6	16.8	2.09	147				
3/29/2016						556	254	163	146
3/30/2016									
4/4/2016									
5/17/2016	5.12	63.9					251	159	140
5/18/2016			14.9	1.92		559			
5/19/2016					224				
5/23/2016									
7/11/2016	4.63	57.6		3.41	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		21.7	10.5			234		
1/3/2017					143				
2/27/2017		62 (J)	23		130				
2/28/2017						560	240	140	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	230	150	130
6/19/2017	2.5 (J)			2.1 (J)		510	200	140	110
6/20/2017					120				
6/21/2017		75	20						
8/14/2017			22		140	540	250	150	140
8/15/2017	2.4 (J)	67		1.7 (J)					
8/16/2017									
4/16/2018									
4/17/2018									
4/19/2018	1.9 (J)	53	24	<2	150	520	250	140	130
10/1/2018						590	280	140	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			24.4	1.87					
4/2/2019	3.24								
4/3/2019		75.2			339	577	346	168	161
5/7/2019					351				
9/16/2019									147
9/17/2019	4.51	131					322		
9/18/2019			23.6	2.39	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 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-15R	GN-AP-MW-20	GN-AP-MW-17	GN-AP-MW-18	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		421	181	
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								
8/29/2022									
8/30/2022	2.73		27.5			538	415	203	190
8/31/2022					225				
9/6/2022		148							
9/7/2022									
1/24/2023					219	554		212	
1/25/2023			26.6						
1/30/2023							444		186
1/31/2023		104							
2/1/2023									
2/6/2023									
2/7/2023	2.6								
7/18/2023			28.200001						
7/19/2023									234
7/25/2023						614	493	216	
7/26/2023		91.900002							
7/31/2023	4.18								
8/1/2023					233				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-10
3/28/2016									
3/29/2016	29.9								
3/30/2016		32.2	<2	24.9	146	85	204	215	9.91
4/4/2016									
5/17/2016				25.1					7.27
5/18/2016		30.8	0.492 (J)			83.8			
5/19/2016							206	204	
5/23/2016	26.5				160				
7/11/2016				33.2					
7/12/2016	24.3								
7/13/2016		32.4				86.2	176	155	4.11
7/14/2016			0.38 (J)		173				
7/18/2016									
8/22/2016									
9/12/2016			<2			91.8			
9/13/2016	17.8	30.9			173		151	89.8	2.86
9/14/2016				35.5					
11/14/2016		32.1	<2			91.2			
11/15/2016	10.1				177		161	176	2.16
11/16/2016				38.5					
1/3/2017									
2/27/2017									
2/28/2017	5.8	32	<2	32		86			3.7 (J)
3/1/2017					160		160	200	
5/22/2017		32							2.6 (J)
5/23/2017					160		160	200	
5/24/2017	11		<2	30		92			
6/19/2017		33							2.8 (J)
6/20/2017	7.9				150		160	180	
6/21/2017			<2	25		88			
8/14/2017		34	<2			100			3.4 (J)
8/15/2017	5			24	170		160	210	
8/16/2017									
4/16/2018		33				91			3.4 (J)
4/17/2018	2.9 (J)				130		160	170	
4/19/2018			<2	25					
10/1/2018	<2				140				
10/2/2018									2.6 (J)
10/3/2018				37					
10/4/2018		37				76	150	200	
10/5/2018			<2						
4/1/2019	1.8								
4/2/2019				22.4	122		198	186	
4/3/2019		44.2	0.925 (J)			102			3.85
5/7/2019									
9/16/2019		49.2				108			3.39
9/17/2019	4.62		<2	39.8					
9/18/2019					167		177	199	
2/17/2020		45.2							3.56
2/18/2020				21.4		110			
2/19/2020			0.571 (J)						
2/25/2020	3.89								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-8	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-12	GN-AP-MW-6	GN-AP-MW-7	GN-AP-MW-10
2/26/2020					39.8		178	207	
7/22/2020		45.3							3.65
7/23/2020									
7/27/2020			<2	21.7		108			
7/28/2020					152		189	160	
7/29/2020	3.25								
4/5/2021		50.1		15.6		96.8			11.4
4/6/2021	3.29		<2						
4/7/2021					38.7		151	164	
4/12/2021									
4/13/2021									
9/21/2021	1.95	55.4							5.56
9/22/2021			0.521 (J)			131			
9/27/2021				14.3	33.5		156	143	
9/28/2021									
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022									
4/27/2022									
5/2/2022	3.02	58.3	<2	11.1					4.75
5/3/2022					34	97	115	107	
8/29/2022									
8/30/2022				12.1	33.299999		123	212	
8/31/2022	1.14 (J)								3.78
9/6/2022		61.900002				104			
9/7/2022			0.641 (J)						
1/24/2023									
1/25/2023	1.96 (J)	57.799999						110	
1/30/2023									
1/31/2023									
2/1/2023			0.758 (J)						
2/6/2023					21.5	107	103		3.9
2/7/2023				11.2					
7/18/2023						113			4.01
7/19/2023	3.93		3.14						
7/25/2023				11.4					
7/26/2023							93.900002	91.800003	
7/31/2023		69							
8/1/2023					20.700001				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLS

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 10/6/2023 12:07 PM View: Appendix III - PLs
 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					
8/29/2022				3.16	12.4	2.24	<2	2.99
8/30/2022		129	77.900002					
8/31/2022	18.700001							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	18.6							
1/30/2023								
1/31/2023								
2/1/2023				1.28 (J)		1.82 (J)	0.892 (J)	2.27
2/6/2023		113	67.199997					
2/7/2023					14.2			
7/18/2023	20.799999							1.65 (J)
7/19/2023				2.51	13.1	2.04	1.7 (J)	
7/25/2023								
7/26/2023		108						
7/31/2023								
8/1/2023			59.299999					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-15R	GN-AP-MW-3 (bg)	GN-AP-MW-14	GN-AP-MW-19	GN-AP-MW-2 (bg)	GN-AP-MW-16	GN-AP-MW-20	GN-AP-MW-8	GN-AP-MW-17
3/28/2016	426	147	308	213	138				
3/29/2016						277	862	290	451
3/30/2016									
4/4/2016									
5/17/2016		140	314			261			432
5/18/2016				206	156		882		
5/19/2016	496								
5/23/2016								312	
7/11/2016	359	146	319		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		264		276	432
9/14/2016	340	141			166		908		
11/14/2016						249	804		
11/15/2016	324		452					262	
11/16/2016		157		224	192				412
1/3/2017	348								
2/27/2017	347		339	223					
2/28/2017						251	930	290	434
3/1/2017		148			186				
5/22/2017	348			219					
5/23/2017		141			158				
5/24/2017			316			257	886	296	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		146	340		168			279	
8/16/2017									
4/16/2018									
4/17/2018								250	
4/19/2018	369	143	304	218	154	247	880		455
10/1/2018						252	866	246	492
10/2/2018				212					
10/3/2018		148			156				
10/4/2018									
10/5/2018	762		544						
4/1/2019				225	160			268	
4/2/2019		140							
4/3/2019	810		336			273	910		536
5/7/2019	810								
9/16/2019						293			
9/17/2019		145	439					257	592
9/18/2019	704			222	154		908		
10/8/2019									
2/17/2020									
2/18/2020				215					
2/19/2020		149	363						

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-18	GN-AP-MW-7	GN-AP-MW-12	GN-AP-MW-4	GN-AP-MW-5	GN-AP-MW-6	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-10
2/25/2020	578								
2/26/2020		490			228	455			
7/22/2020	594						216		175
7/23/2020									
7/27/2020			378	284				202	
7/28/2020		434			406	485			
7/29/2020									
4/5/2021			372	248			217		184
4/6/2021	596							193	
4/7/2021		436			256	436			
4/12/2021									
4/13/2021									
9/21/2021							217		174
9/22/2021			375					210	
9/27/2021		379		237	240	415			
9/28/2021	608								
9/29/2021									
4/19/2022									
4/20/2022									
4/26/2022	596								
4/27/2022									
5/2/2022				248			234	201	173
5/3/2022		329	371		239	376			
8/29/2022									
8/30/2022	614	319		240	237	400			
8/31/2022									174
9/6/2022			376				226		
9/7/2022								192	
1/24/2023	632								
1/25/2023		345					234		
1/30/2023									
1/31/2023									
2/1/2023								181	
2/6/2023			391		222	374			183
2/7/2023				247					
7/18/2023			372						166
7/19/2023								199	
7/25/2023	620			244					
7/26/2023		312				343			
7/31/2023							242		
8/1/2023					228				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/6/2023 12:07 PM View: Appendix III - PLs
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-9	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-40 (bg)	GN-AP-MW-41 (bg)	GN-AP-MW-39 (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				118	126	146	129	
4/13/2021								77.3
9/21/2021	205			111	148	139	115	83.3
9/22/2021								
9/27/2021		443	402					
9/28/2021								
9/29/2021								
4/19/2022				107	138	144	122	67.3
4/20/2022								
4/26/2022								
4/27/2022								
5/2/2022	209							
5/3/2022		388	308					
8/29/2022				94.699997	133	136	98	76
8/30/2022		390	296					
8/31/2022	210							
9/6/2022								
9/7/2022								
1/24/2023								
1/25/2023	207							
1/30/2023								
1/31/2023								
2/1/2023				98.699997	122		104	66
2/6/2023		376	302					
2/7/2023						145		
7/18/2023	219							74.699997
7/19/2023				109	133	148	103	
7/25/2023								
7/26/2023		376						
7/31/2023								
8/1/2023			299					

FIGURE F.

Appendix III Trend Tests - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.03447	173	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.02745	179	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.2568	137	105	Yes	24	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-16	0.02302	106	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-17	0.08537	90	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.0532	97	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-20	0.1619	147	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-5	-0.23	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.297	119	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.481	118	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	5.182	144	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	24.74	157	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.305	127	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1971	135	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	9.848	155	105	Yes	24	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	3.293	183	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	11.09	180	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.3405	152	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5357	135	87	Yes	21	4.762	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-20	0.449	130	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-4	-1.991	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.4188	116	87	Yes	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.05972	-116	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.518	176	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	3.792	123	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	9.205	107	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	32.66	134	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-18	9.692	104	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.008	128	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-22	-12.58	-93	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-21.48	-140	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-6	-8.439	-97	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	1.864	150	87	Yes	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	7.165	167	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	4.492	113	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	19.43	131	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	78.3	154	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-18	11.88	123	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-20	9.367	109	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-10.77	-99	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-5	-26.88	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-7.546	-139	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	4.919	135	87	Yes	21	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GN-AP-MW-11	0.03447	173	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-12	0.02745	179	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-15R	0.2568	137	105	Yes	24	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-16	0.02302	106	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-17	0.08537	90	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-18	0.0532	97	87	Yes	21	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	0.1619	147	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-21	-0.03079	-24	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-22	-0.07118	-52	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-3 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-38 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-39 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-40 (bg)	0	5	14	No	6	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-41 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-42 (bg)	0	0	14	No	6	100	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-5	-0.23	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-6	-0.09549	-62	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GN-AP-MW-7	-0.04403	-37	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-11	1.297	119	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-12	1.481	118	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-13	0.02963	7	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-14	-1.112	-24	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-15R	7.959	94	105	No	24	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-16	5.182	144	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-17	24.74	157	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-18	4.305	127	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-19	0.1704	32	87	No	21	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	3.186	77	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-21	2.561	58	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-22	1.229	31	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-3 (bg)	0.09626	22	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-38 (bg)	-1.106	-9	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-39 (bg)	0.1096	2	14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-4	0.1461	18	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-40 (bg)	-0.8295	-6	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-41 (bg)	-0.9605	-1	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-42 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-5	-1.916	-52	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-6	2.361	64	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-7	-1.942	-46	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GN-AP-MW-8	0.1265	14	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-11	0.1971	135	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-12	-0.206	-75	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-15R	9.848	155	105	Yes	24	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-16	3.293	183	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-17	11.09	180	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-18	0.3405	152	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-19	0.5357	135	87	Yes	21	4.762	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	0.449	130	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-21	-0.01639	-2	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-22	-1.427	-19	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-3 (bg)	-0.0162	-29	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-38 (bg)	-0.7411	-9	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-39 (bg)	-0.3476	-7	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-4	-1.991	-91	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-40 (bg)	-0.2781	-9	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-41 (bg)	-0.2882	-11	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-42 (bg)	-0.2696	-11	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-5	-2.871	-61	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-6	0.6268	8	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-7	0	-2	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GN-AP-MW-9	0.4188	116	87	Yes	21	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-17	-0.05972	-116	-92	Yes	22	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)	-0.002517	-17	-87	No	21	0	n/a	n/a	0.01	NP

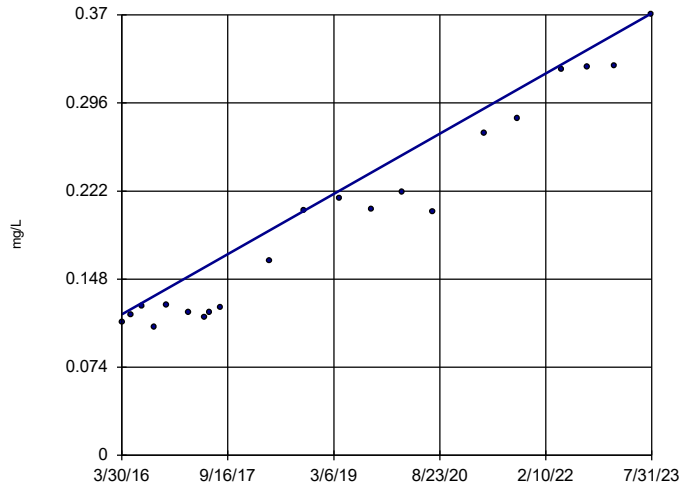
Appendix III Trend Tests - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/6/2023, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (pH)	GN-AP-MW-38 (bg)	0.07242	1	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-39 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-40 (bg)	0.1383	3	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-41 (bg)	0.2824	7	14	No	6	0	n/a	n/a	0.01	NP
pH (pH)	GN-AP-MW-42 (bg)	0.03293	1	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-11	4.518	176	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-12	3.792	123	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-14	6.374	77	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-15R	15.05	85	105	No	24	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-16	9.205	107	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-17	32.66	134	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-18	9.692	104	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-19	1.008	128	87	Yes	21	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	3.513	31	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-21	-2.573	-24	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-22	-12.58	-93	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-3 (bg)	-0.1584	-46	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-38 (bg)	-3.086	-11	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-39 (bg)	-0.2253	-5	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-40 (bg)	-0.338	-5	-14	No	6	16.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-41 (bg)	-0.1217	-1	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-42 (bg)	-1.4	-11	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-5	-21.48	-140	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-6	-8.439	-97	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-7	-8.006	-59	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GN-AP-MW-9	1.864	150	87	Yes	21	4.762	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-10	-1.237	-56	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-11	7.165	167	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-12	4.492	113	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-13	-1.503	-69	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-14	13.09	64	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-15R	32.29	70	105	No	24	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-16	19.43	131	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-17	78.3	154	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-18	11.88	123	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-19	1.751	68	87	No	21	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	9.367	109	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-21	-3.716	-19	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-22	-12.56	-41	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-3 (bg)	0	7	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-38 (bg)	-11.46	-9	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-39 (bg)	1.241	3	14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-4	-10.77	-99	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-40 (bg)	-9.015	-7	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-41 (bg)	-4.002	-4	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-42 (bg)	-1.648	-7	-14	No	6	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-5	-26.88	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-6	-0.2045	-2	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-7	-14.46	-49	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-8	-7.546	-139	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GN-AP-MW-9	4.919	135	87	Yes	21	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GN-AP-MW-11

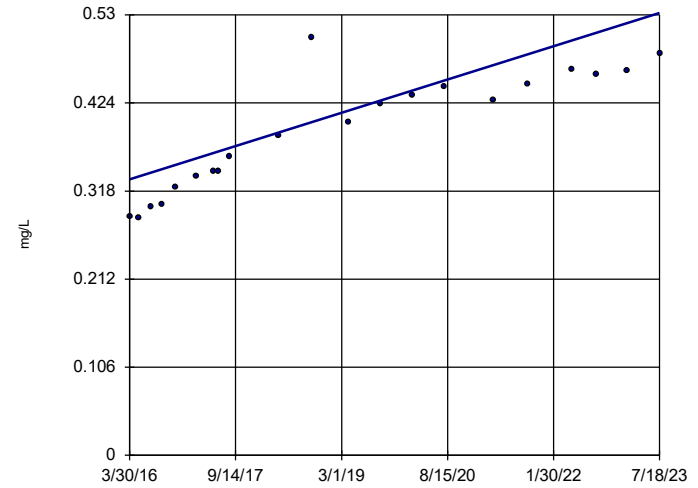


n = 21
 Slope = 0.03447
 units per year.
 Mann-Kendall
 statistic = 173
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12

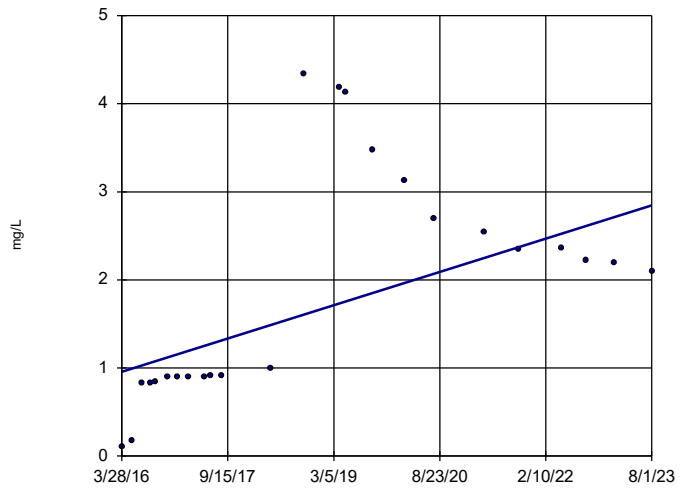


n = 21
 Slope = 0.02745
 units per year.
 Mann-Kendall
 statistic = 179
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-15R

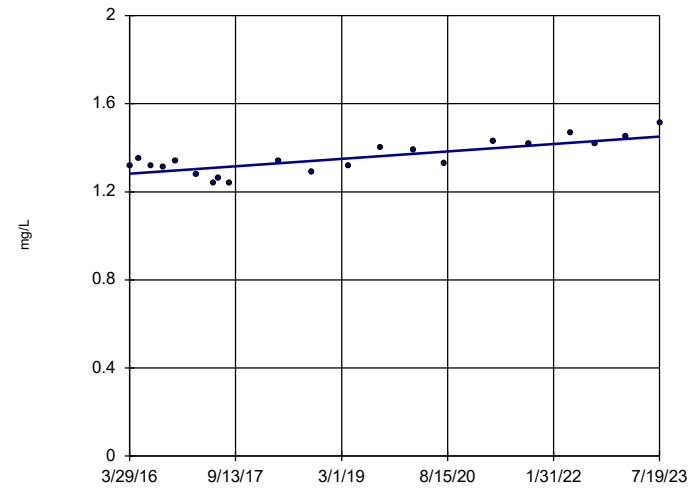


n = 24
 Slope = 0.2568
 units per year.
 Mann-Kendall
 statistic = 137
 critical = 105
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-16

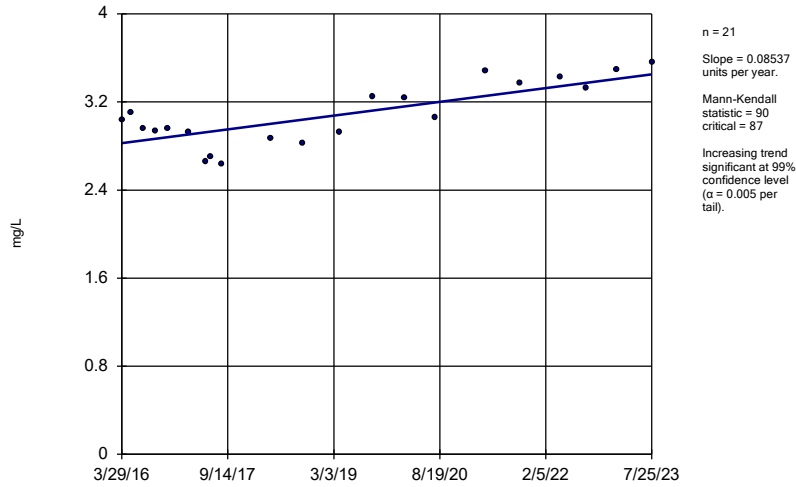


n = 21
 Slope = 0.02302
 units per year.
 Mann-Kendall
 statistic = 106
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

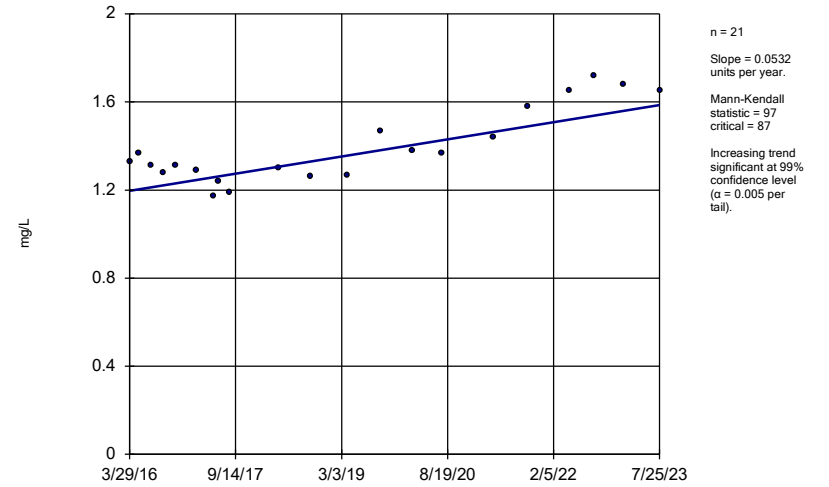
GN-AP-MW-17



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

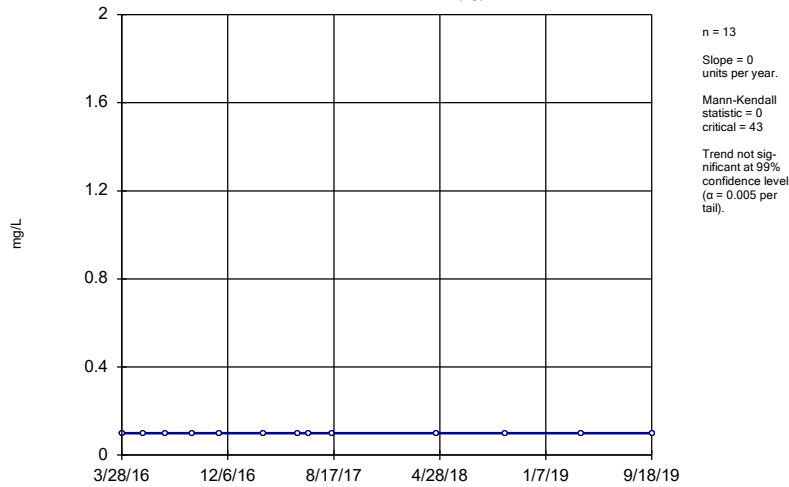
GN-AP-MW-18



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

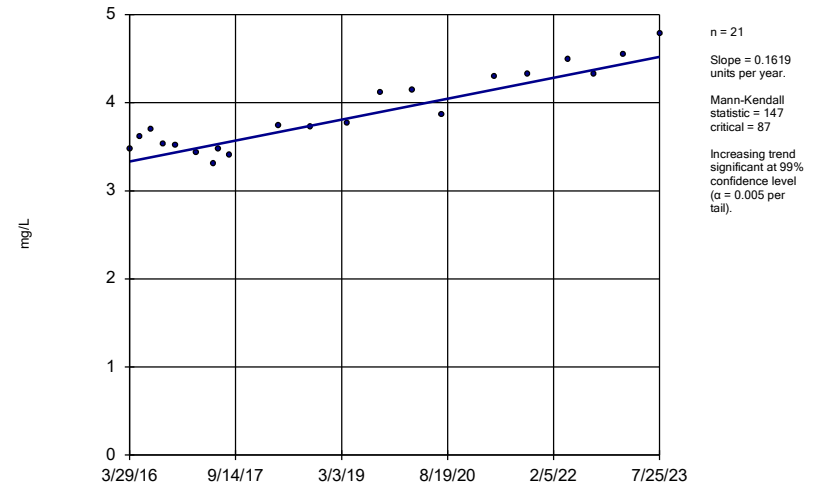
GN-AP-MW-2 (bg)



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

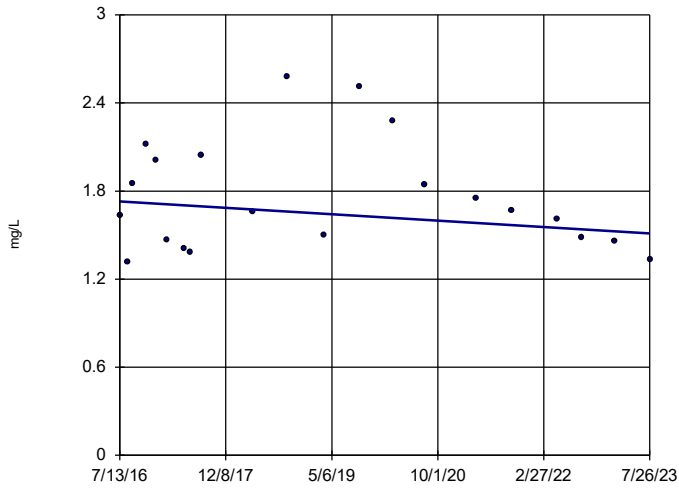
GN-AP-MW-20



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-21

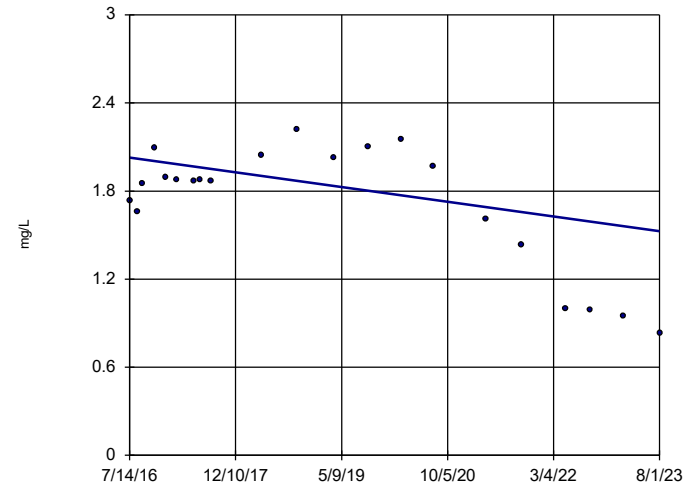


n = 21
 Slope = -0.03079
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-22

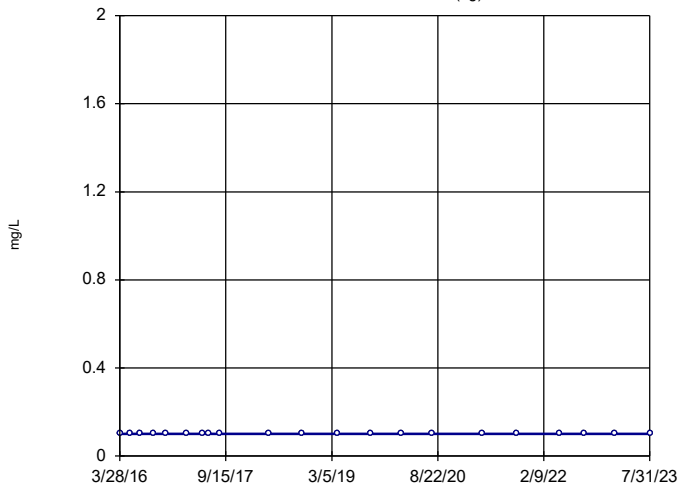


n = 21
 Slope = -0.07118
 units per year.
 Mann-Kendall
 statistic = -52
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

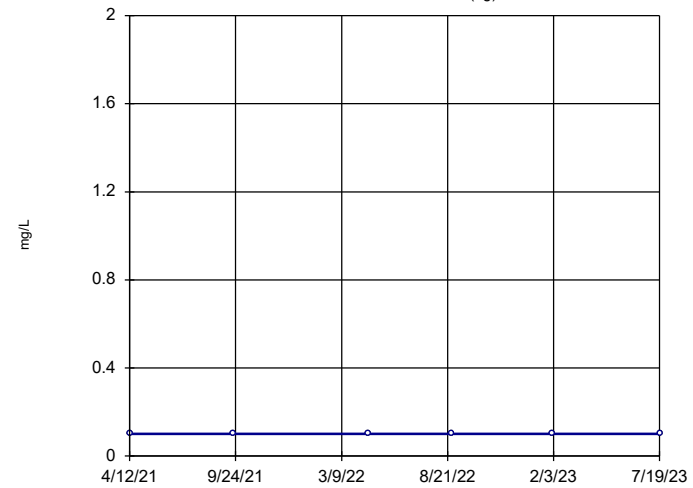


n = 21
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)

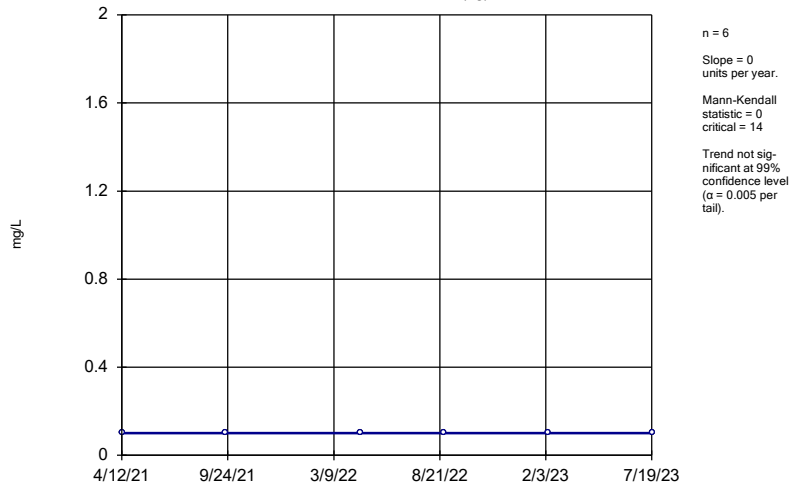


n = 6
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

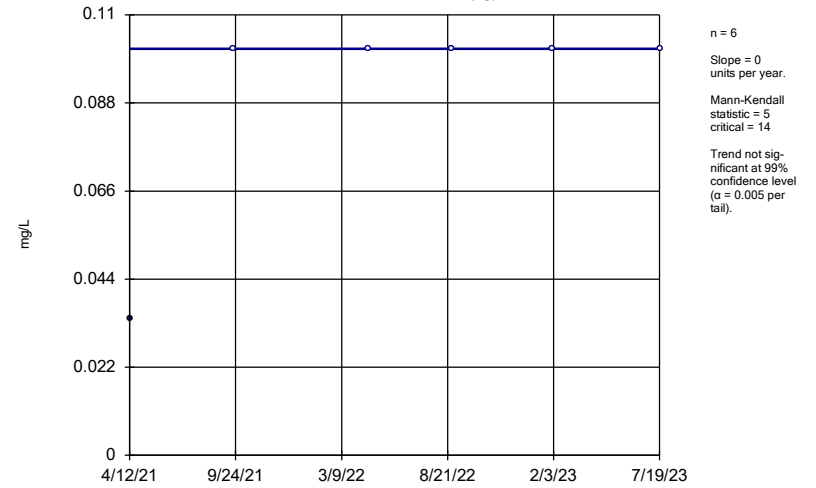
GN-AP-MW-39 (bg)



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

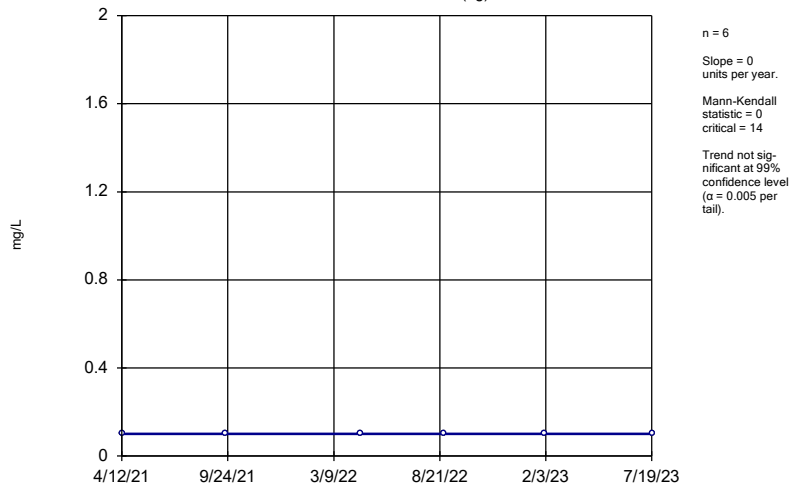
GN-AP-MW-40 (bg)



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

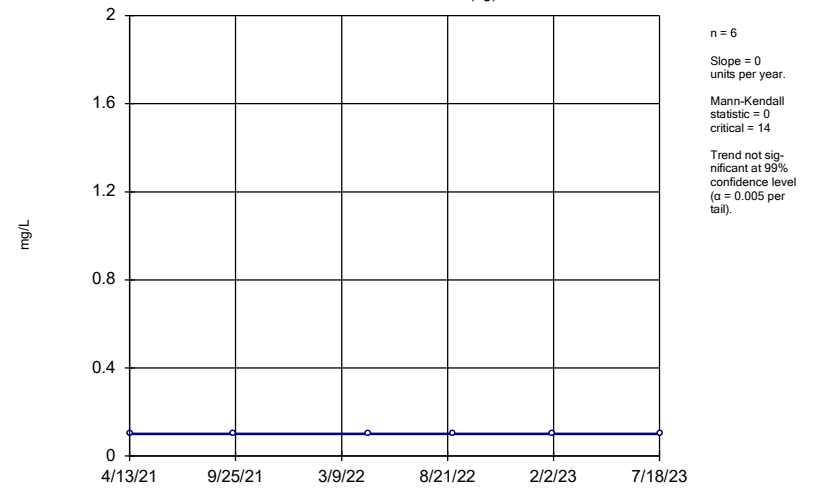
GN-AP-MW-41 (bg)



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Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

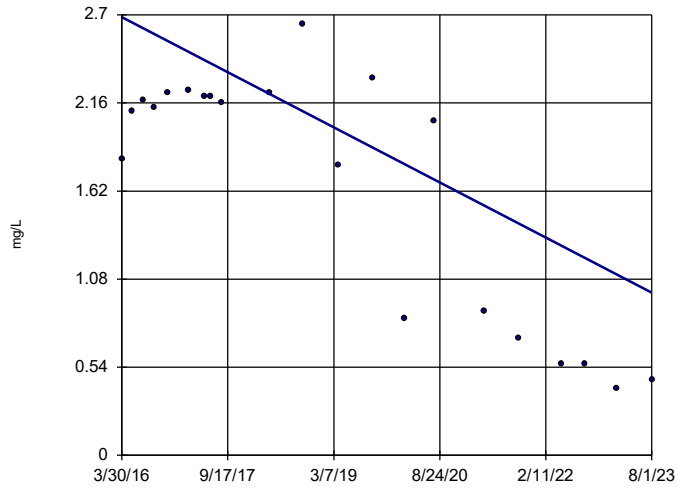
GN-AP-MW-42 (bg)



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

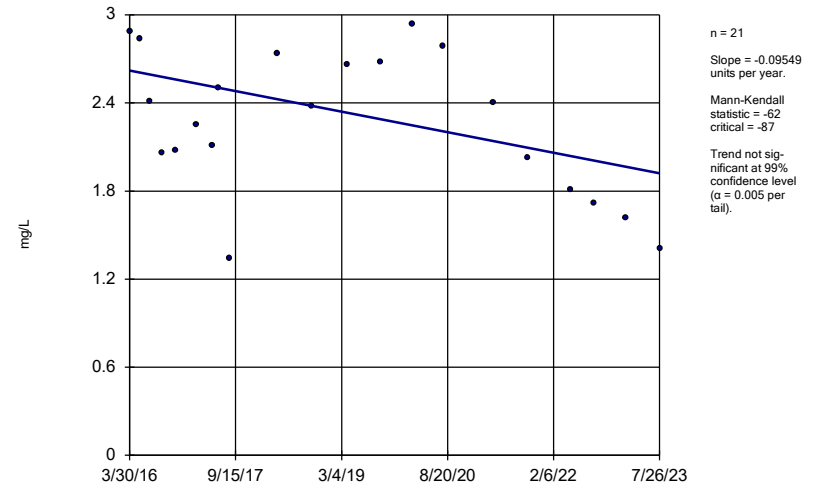
GN-AP-MW-5



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

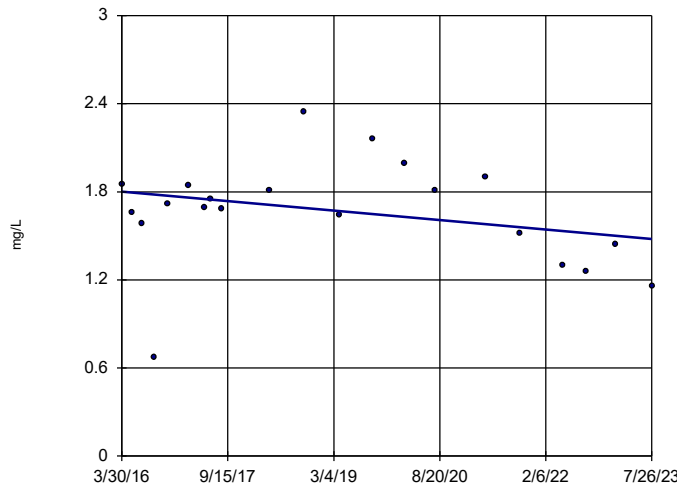
GN-AP-MW-6



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

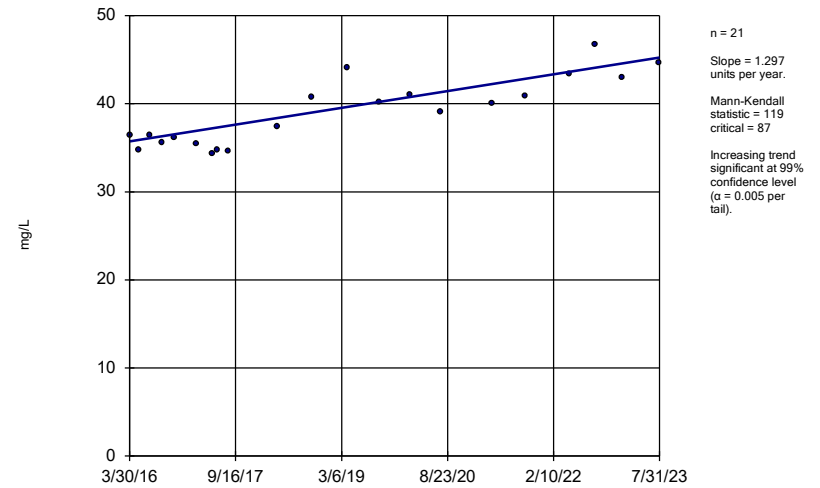
GN-AP-MW-7



Constituent: Boron Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

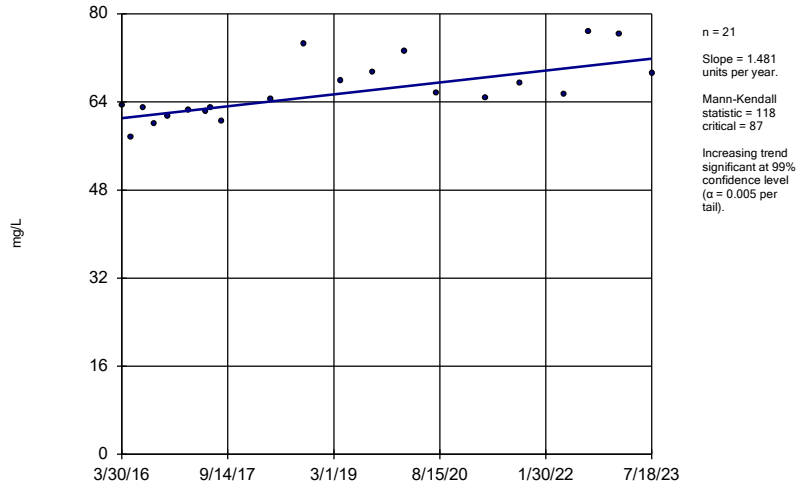
GN-AP-MW-11



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

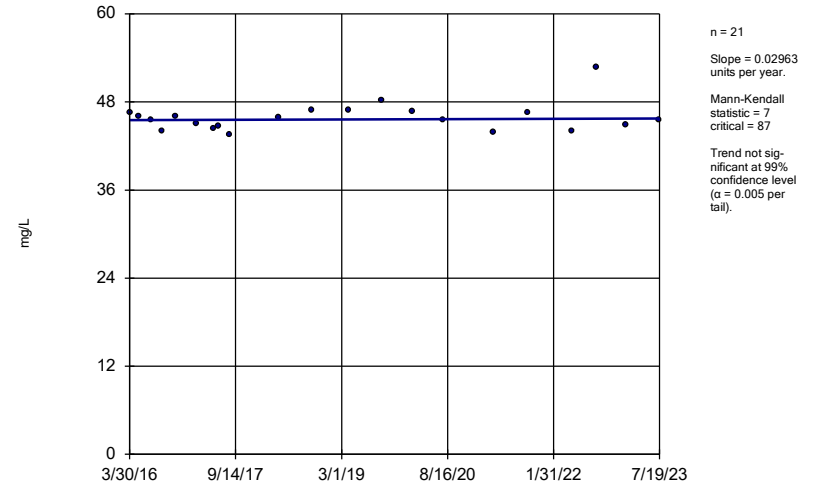
GN-AP-MW-12



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

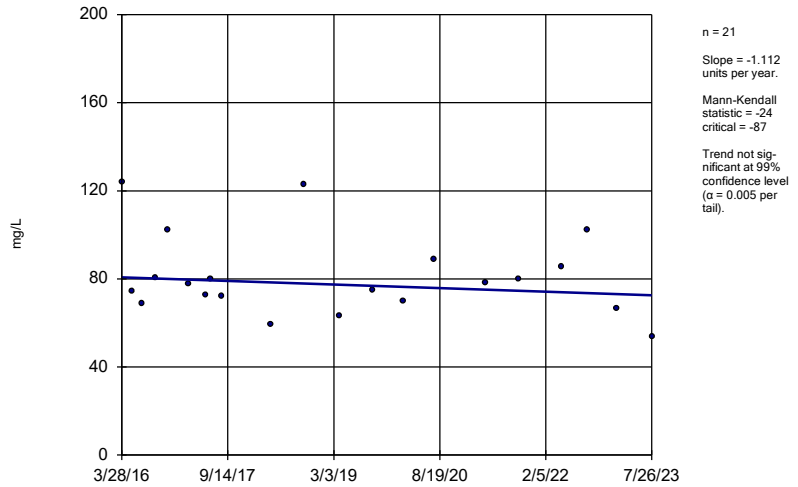
GN-AP-MW-13



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

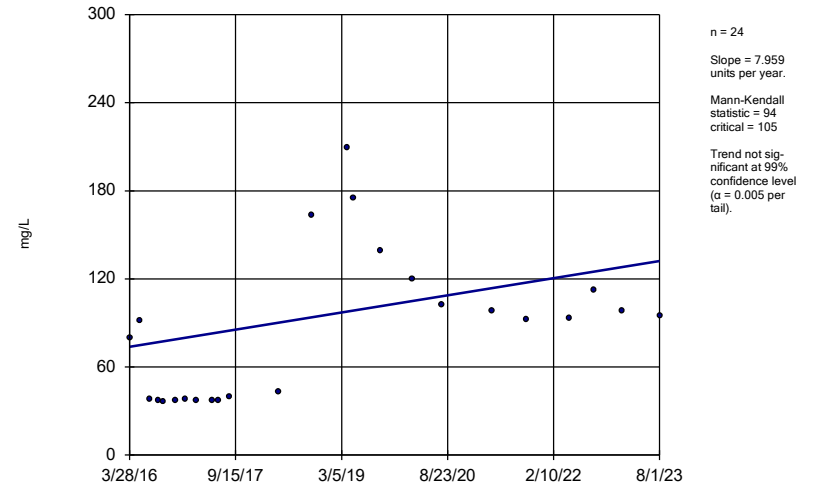
GN-AP-MW-14



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

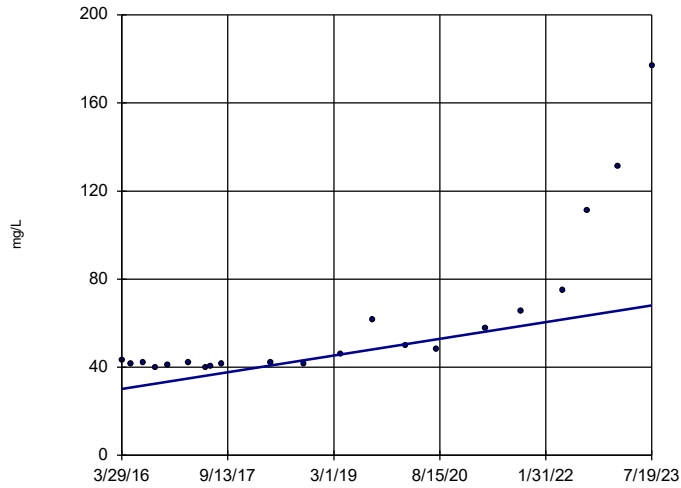
GN-AP-MW-15R



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-16

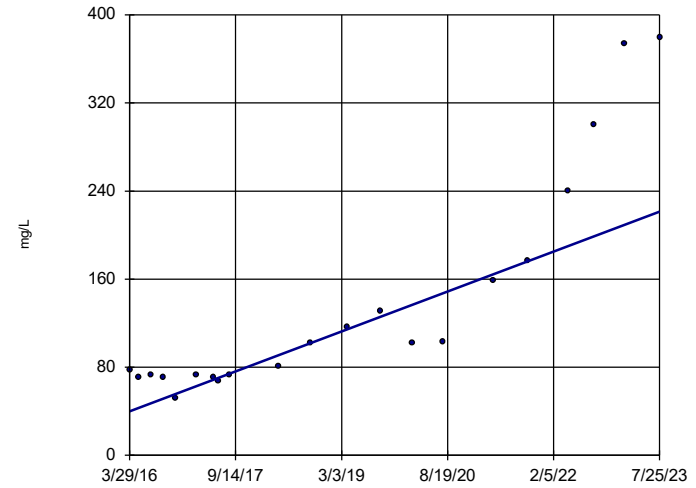


n = 21
 Slope = 5.182
 units per year.
 Mann-Kendall
 statistic = 144
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17

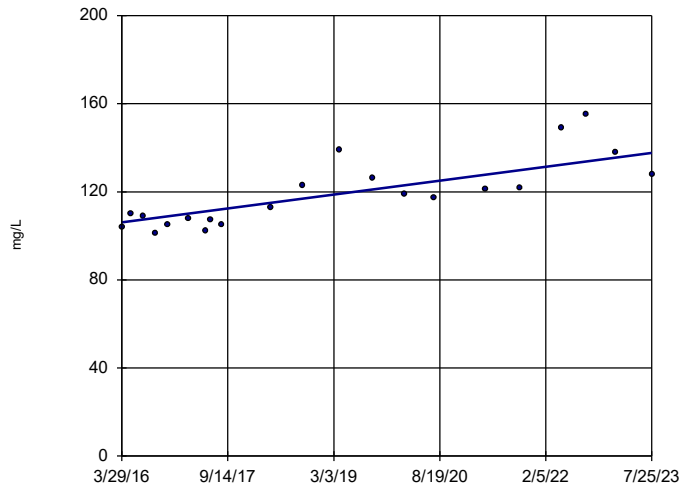


n = 21
 Slope = 24.74
 units per year.
 Mann-Kendall
 statistic = 157
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-18

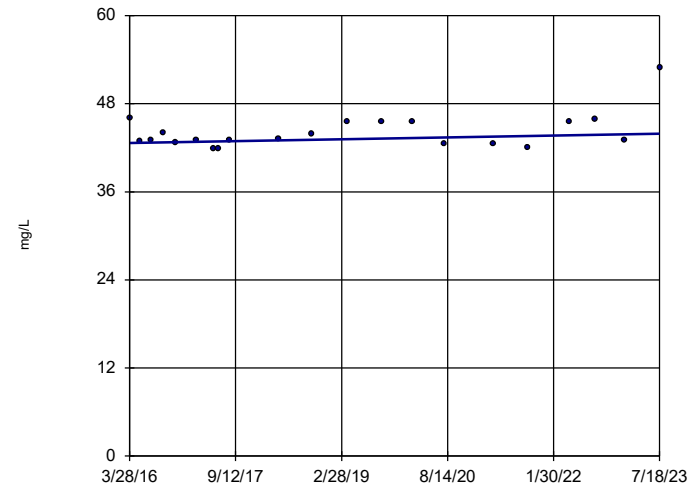


n = 21
 Slope = 4.305
 units per year.
 Mann-Kendall
 statistic = 127
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-19

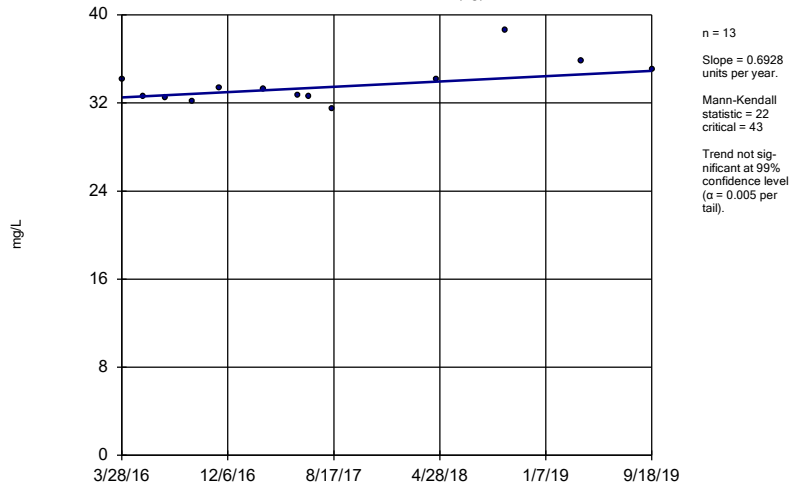


n = 21
 Slope = 0.1704
 units per year.
 Mann-Kendall
 statistic = 32
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

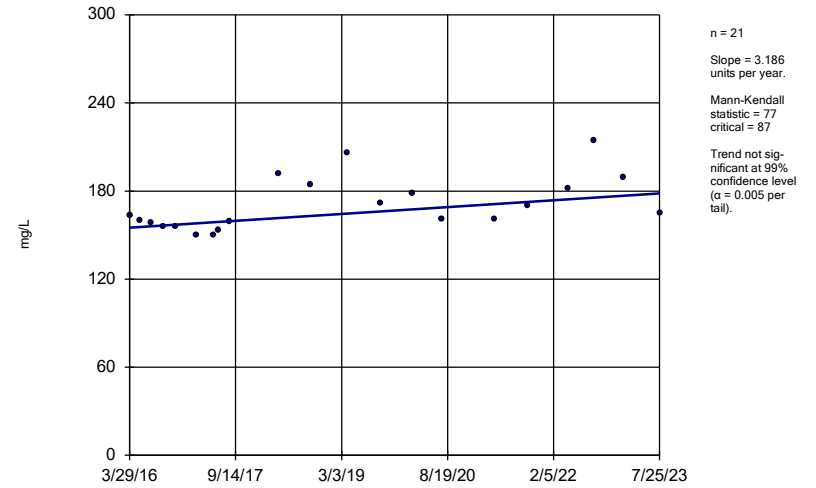
GN-AP-MW-2 (bg)



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

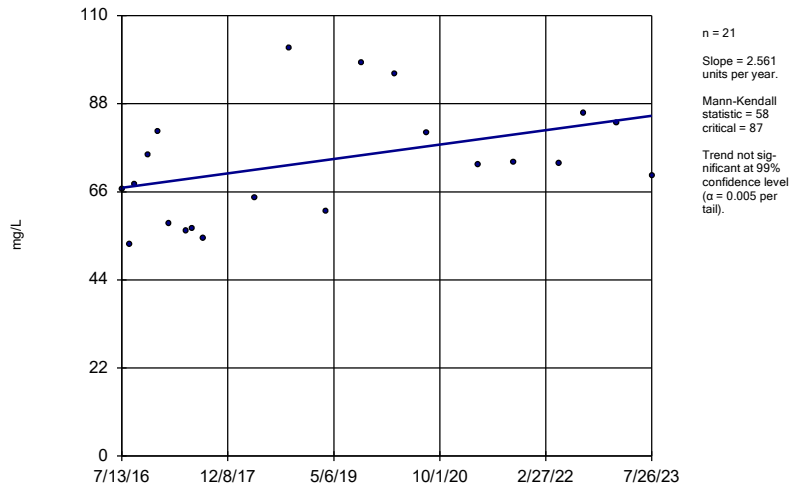
GN-AP-MW-20



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

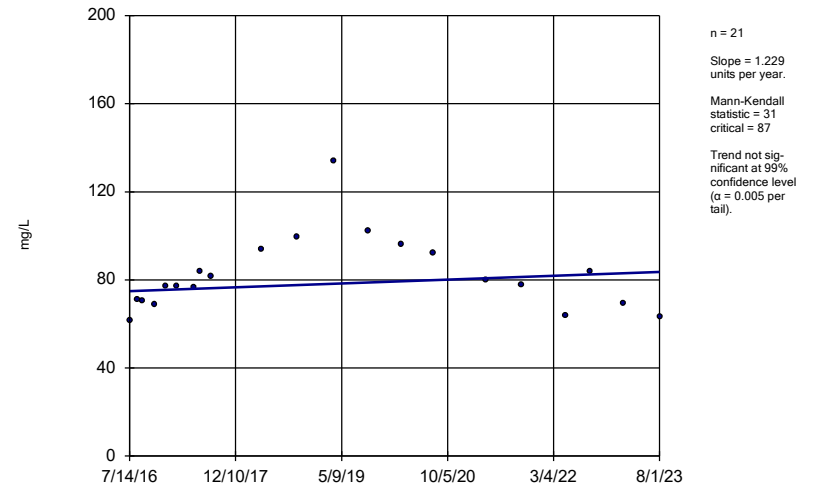
GN-AP-MW-21



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

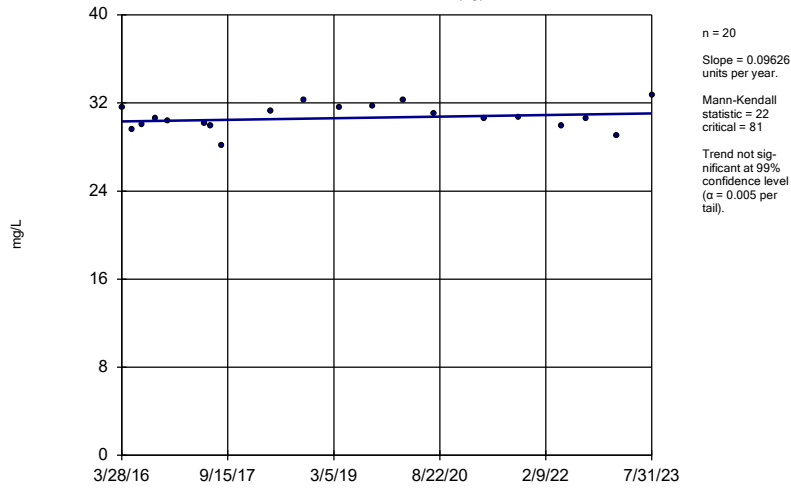
GN-AP-MW-22



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

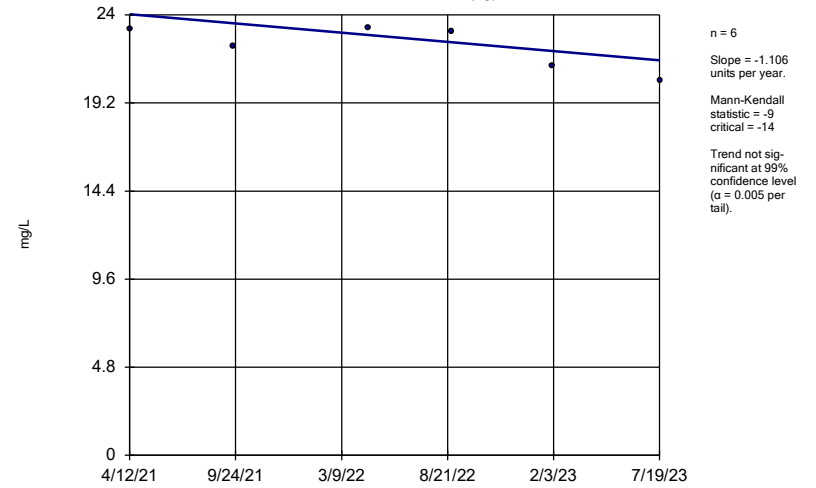
GN-AP-MW-3 (bg)



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

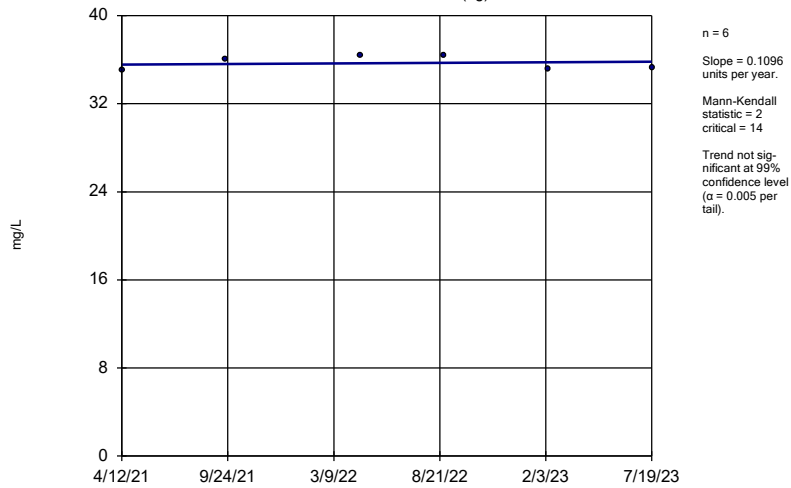
GN-AP-MW-38 (bg)



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

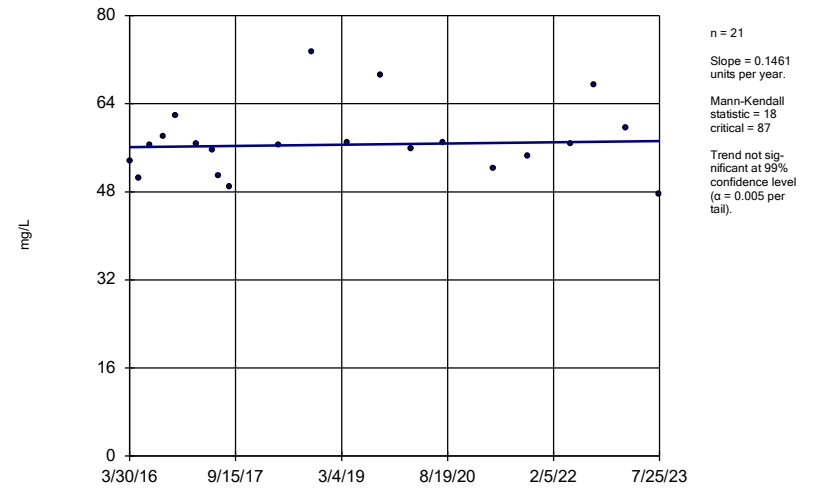
GN-AP-MW-39 (bg)



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

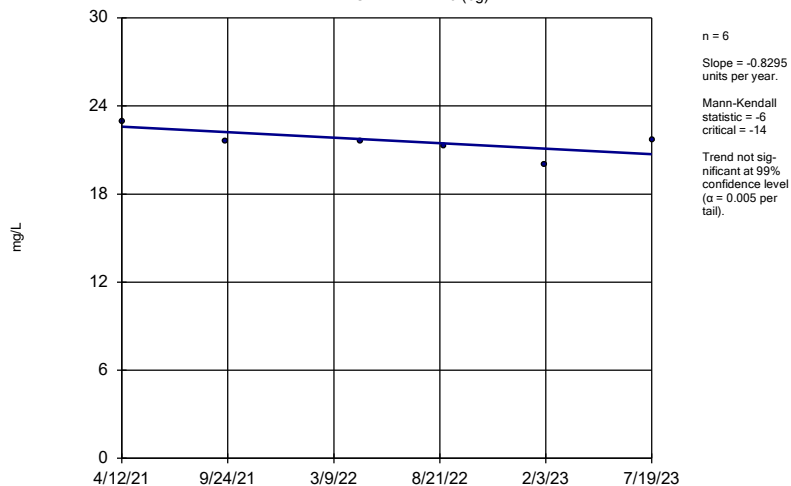
GN-AP-MW-4



Constituent: Calcium Analysis Run 10/6/2023 12:08 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

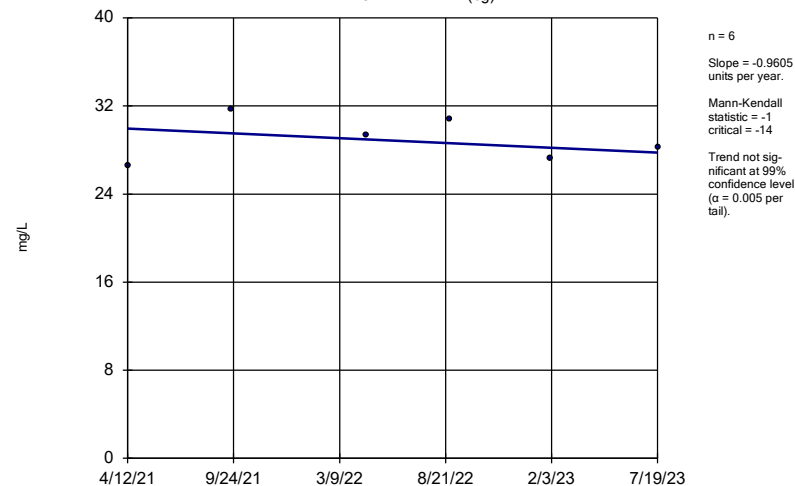
GN-AP-MW-40 (bg)



Constituent: Calcium Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

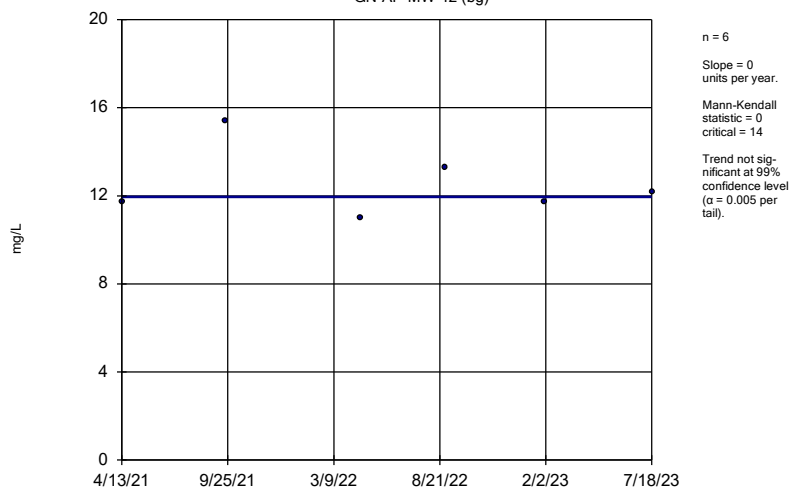
GN-AP-MW-41 (bg)



Constituent: Calcium Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

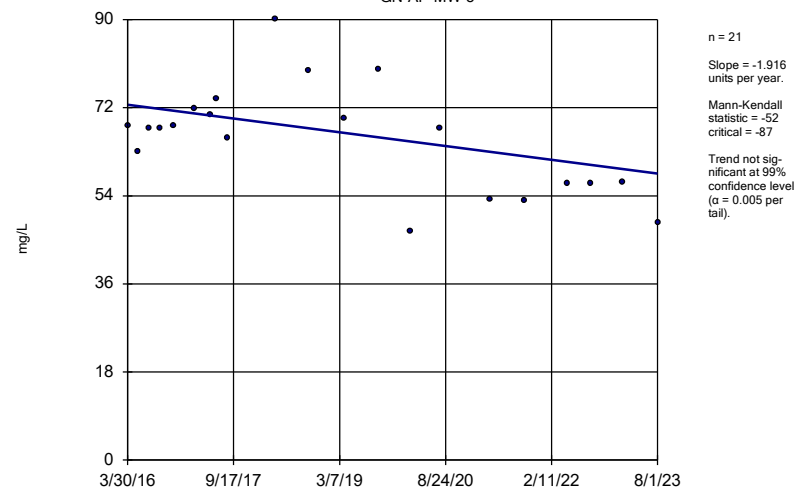
GN-AP-MW-42 (bg)



Constituent: Calcium Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

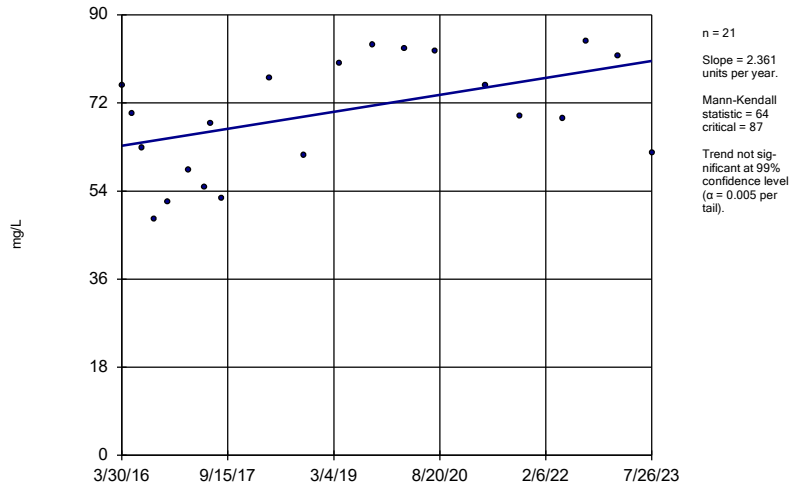
GN-AP-MW-5



Constituent: Calcium Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

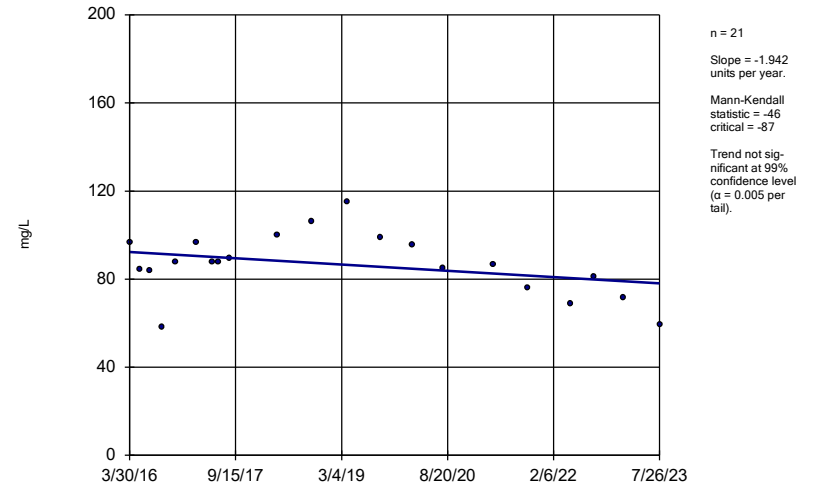
GN-AP-MW-6



Constituent: Calcium Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

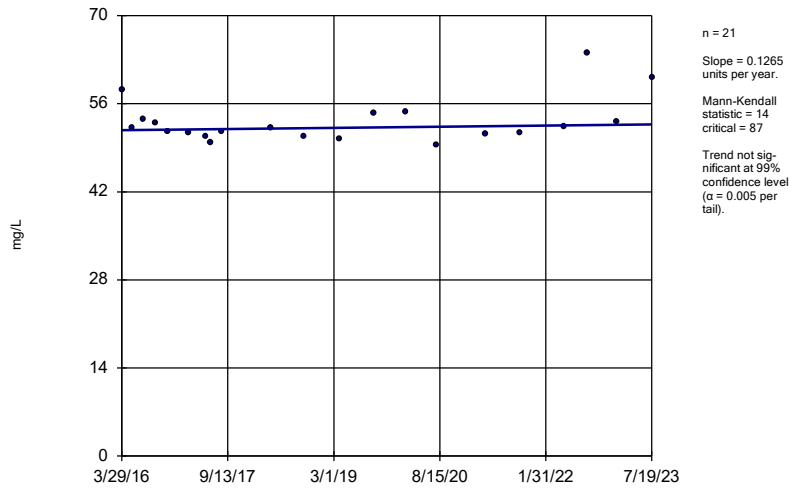
GN-AP-MW-7



Constituent: Calcium Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

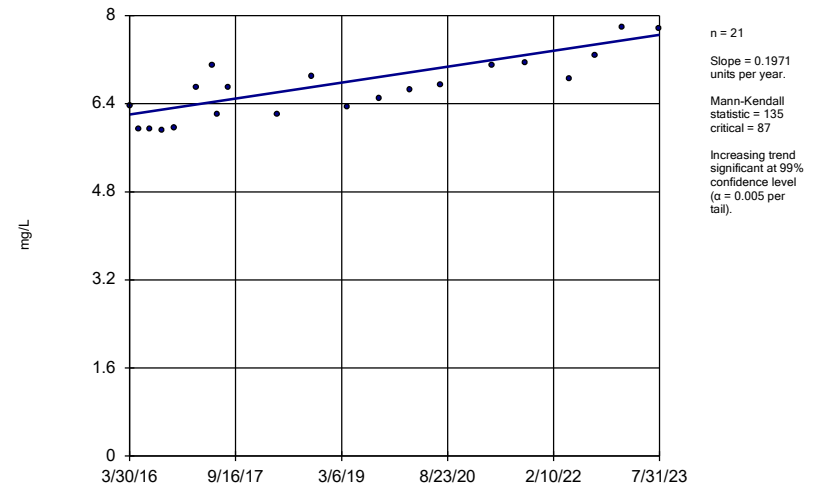
GN-AP-MW-8



Constituent: Calcium Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

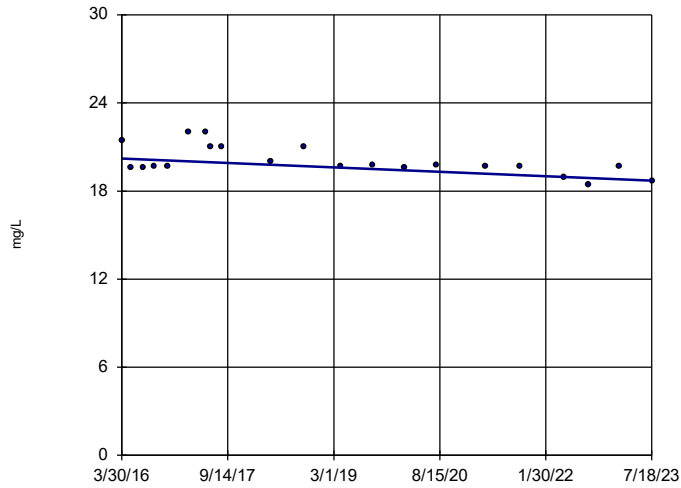
GN-AP-MW-11



Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12

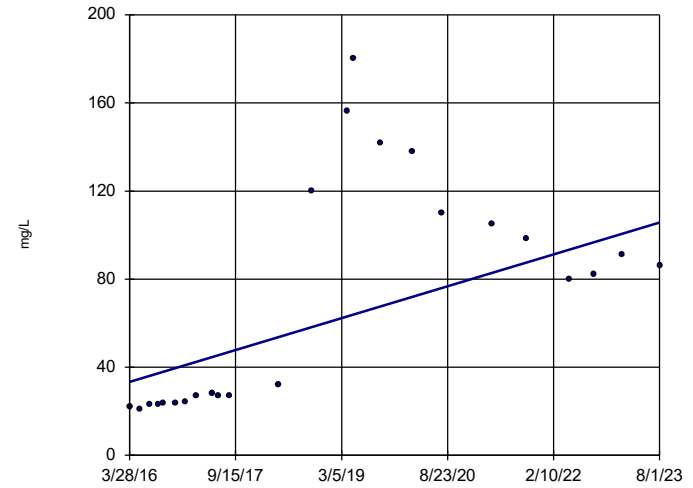


n = 21
 Slope = -0.206
 units per year.
 Mann-Kendall
 statistic = -75
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-15R

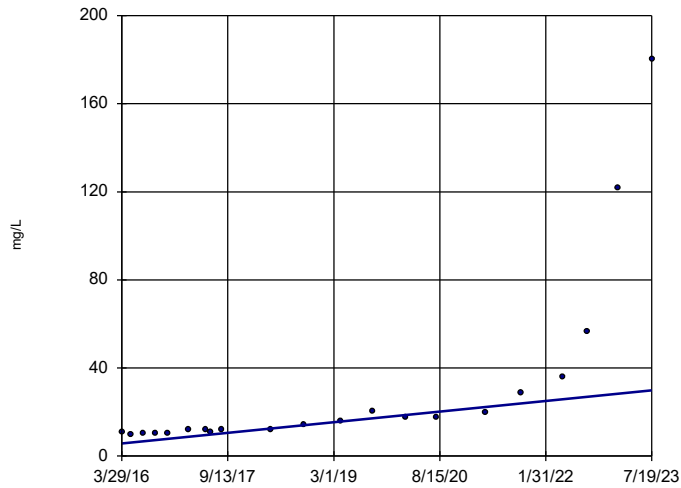


n = 24
 Slope = 9.848
 units per year.
 Mann-Kendall
 statistic = 155
 critical = 105
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-16

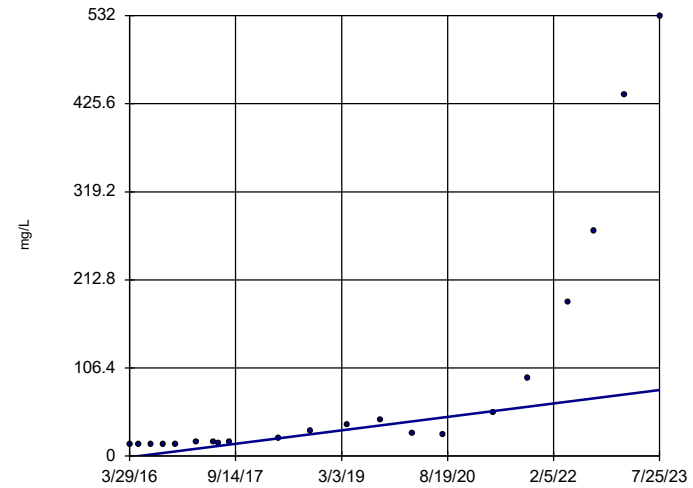


n = 21
 Slope = 3.293
 units per year.
 Mann-Kendall
 statistic = 183
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17

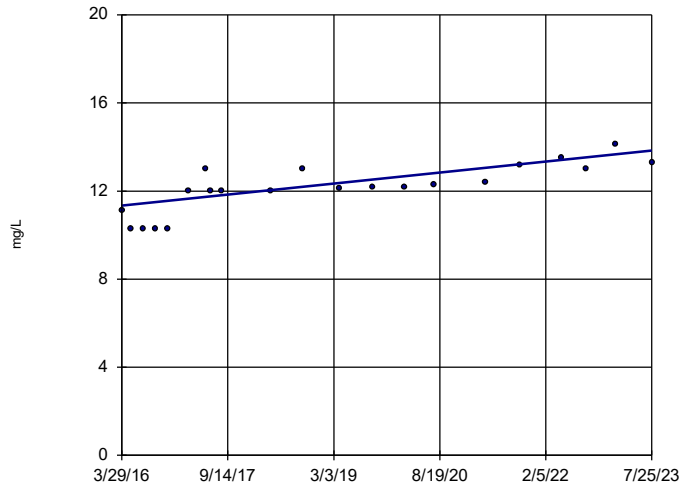


n = 21
 Slope = 11.09
 units per year.
 Mann-Kendall
 statistic = 180
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-18

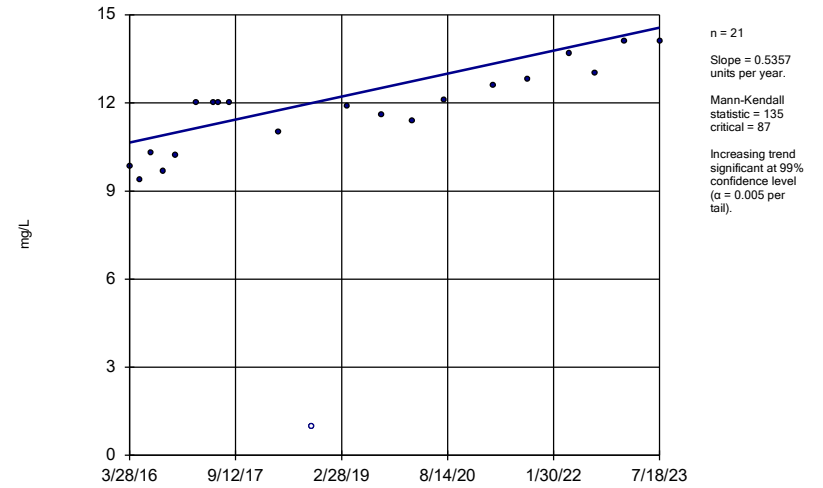


Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-19

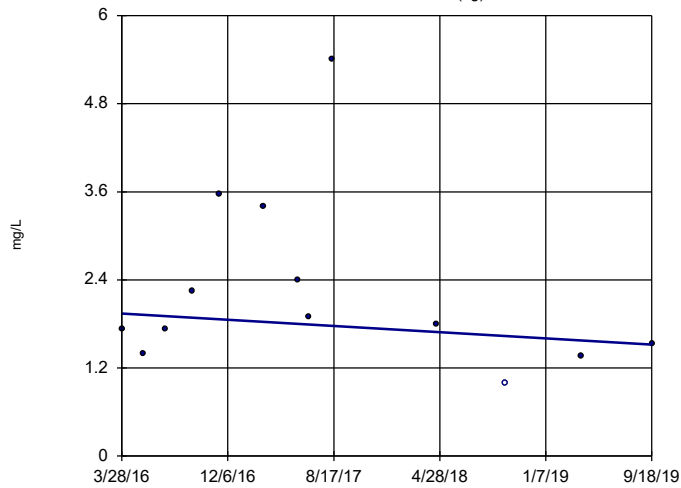


Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

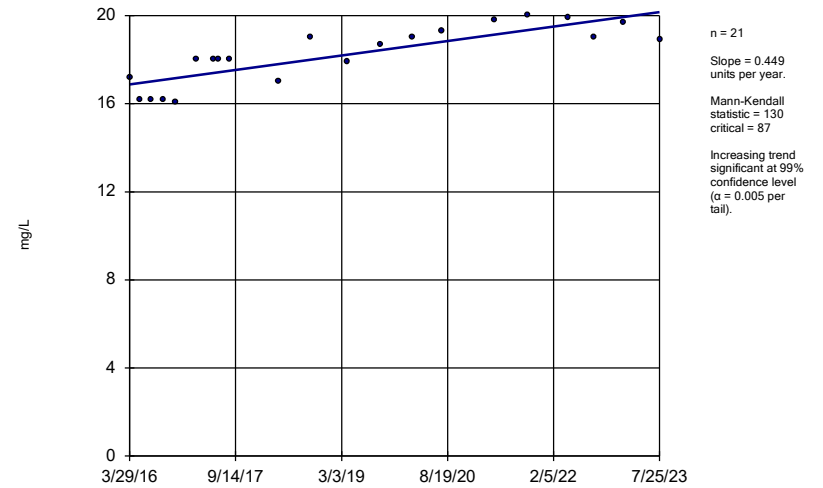
GN-AP-MW-2 (bg)



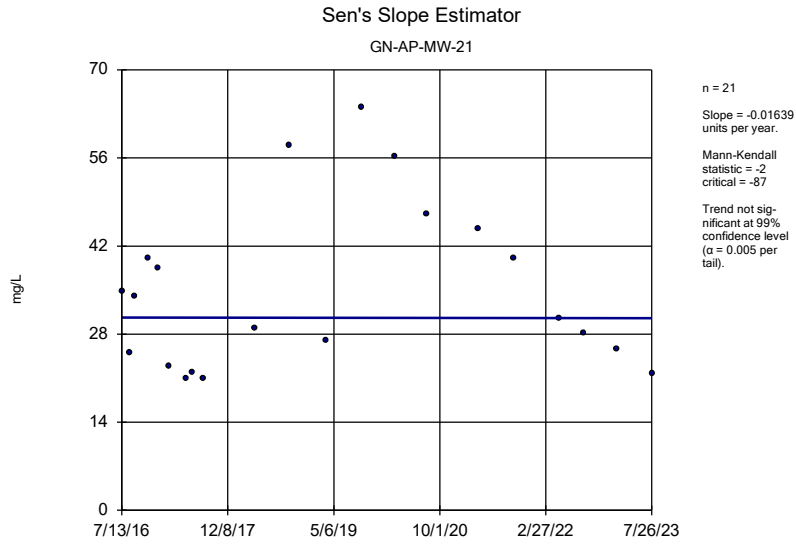
Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

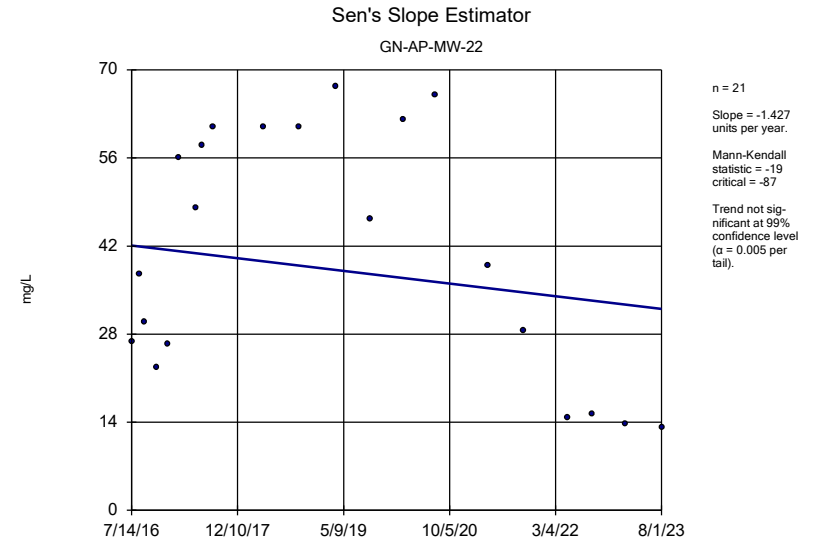
GN-AP-MW-20



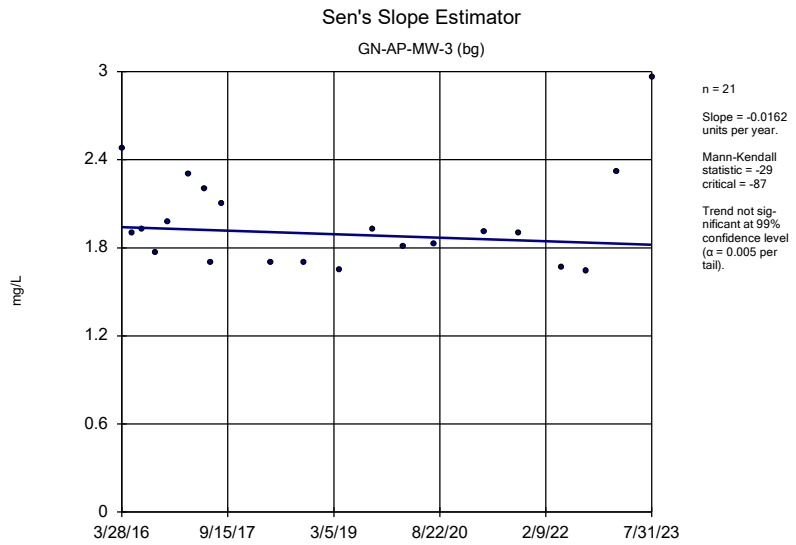
Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond



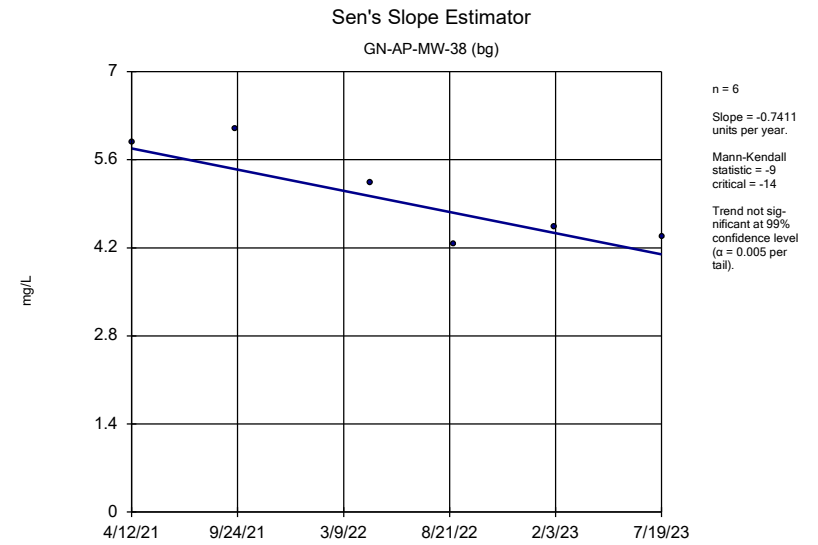
Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond



Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond



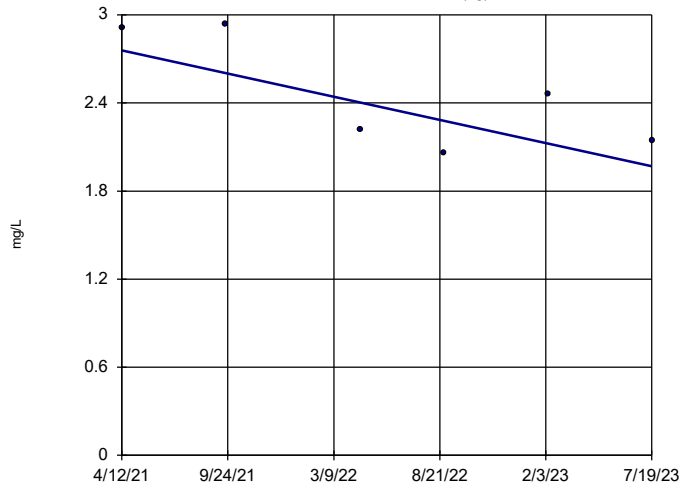
Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond



Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)

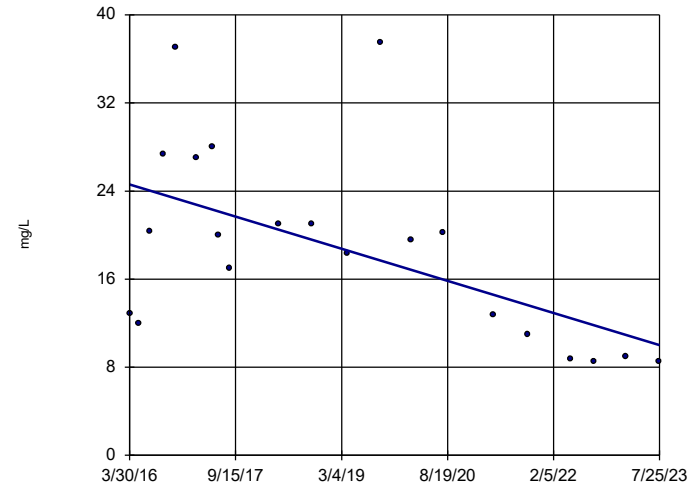


n = 6
 Slope = -0.3476
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-4

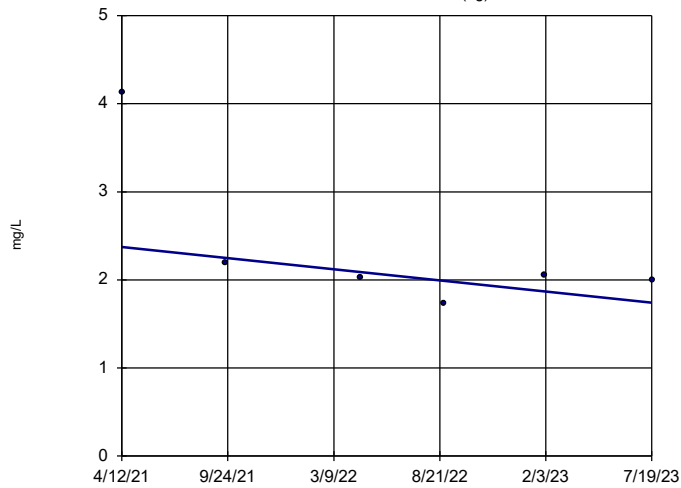


n = 21
 Slope = -1.991
 units per year.
 Mann-Kendall
 statistic = -91
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-40 (bg)

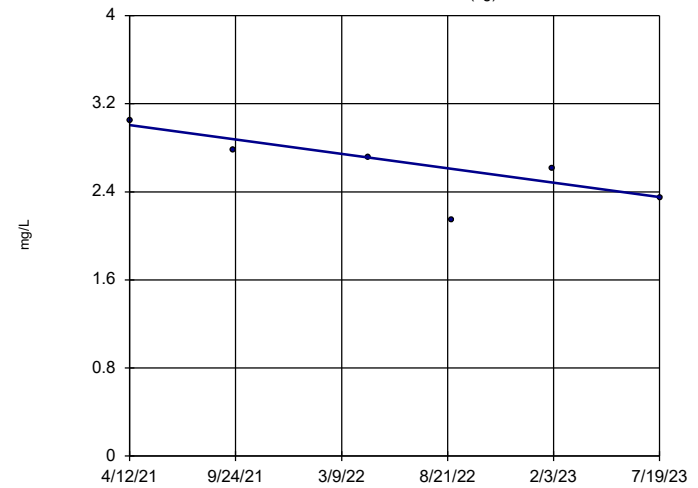


n = 6
 Slope = -0.2781
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-41 (bg)

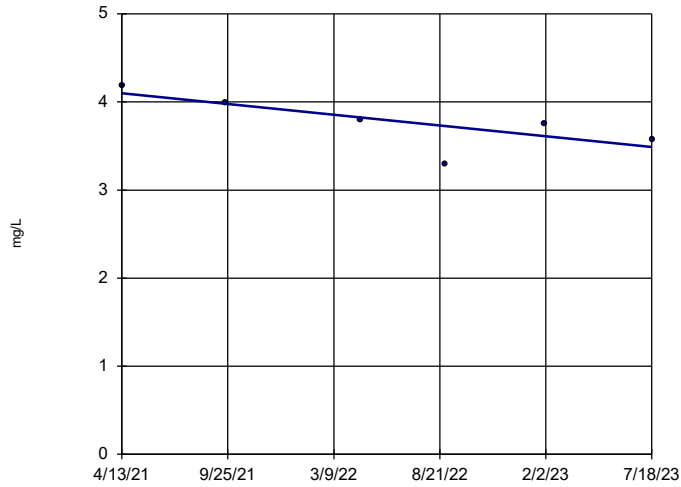


n = 6
 Slope = -0.2882
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)

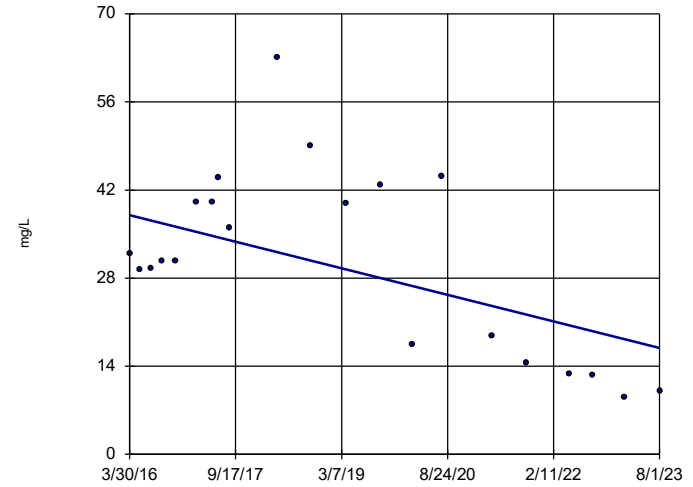


n = 6
 Slope = -0.2696
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-5

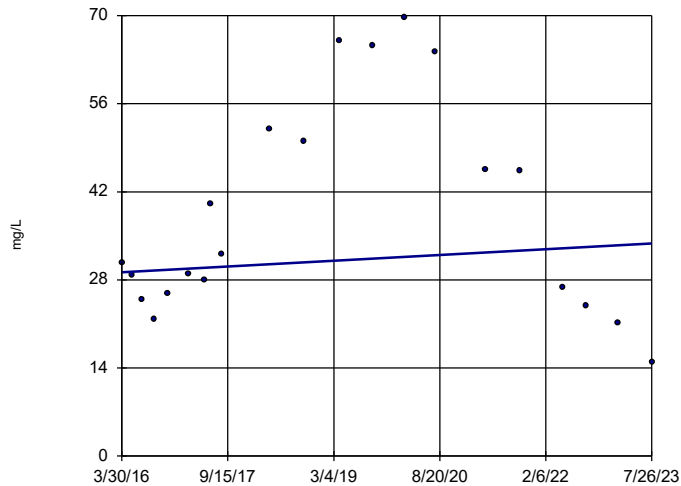


n = 21
 Slope = -2.871
 units per year.
 Mann-Kendall
 statistic = -61
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-6

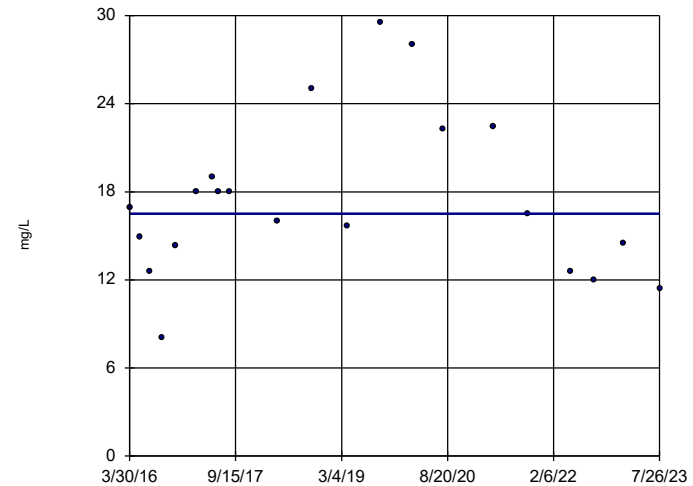


n = 21
 Slope = 0.6268
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-7

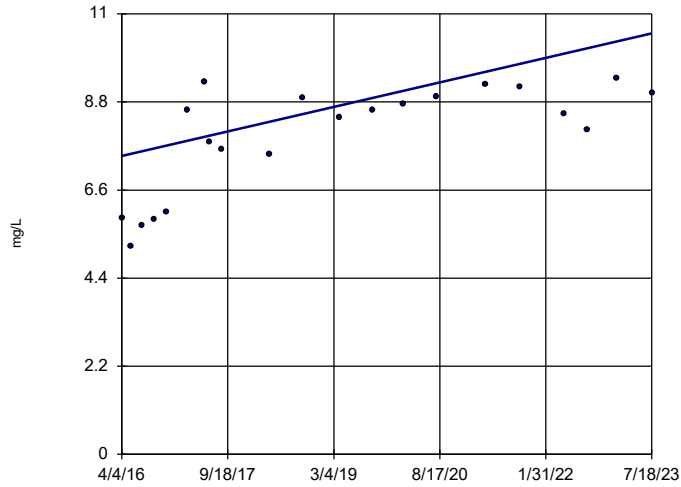


n = 21
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-9

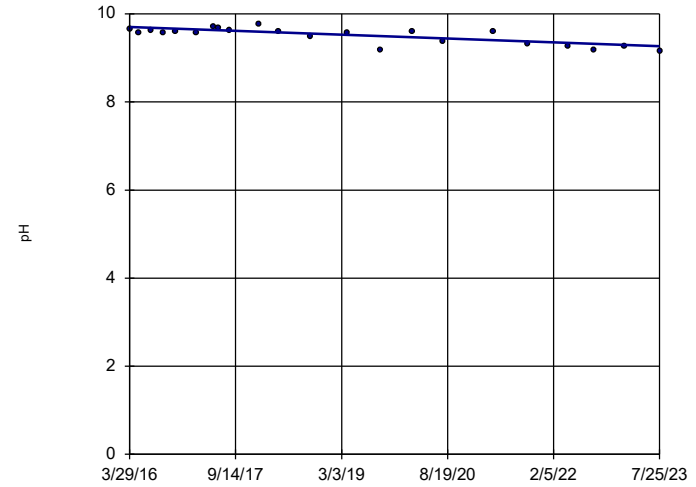


n = 21
 Slope = 0.4188
 units per year.
 Mann-Kendall
 statistic = 116
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17

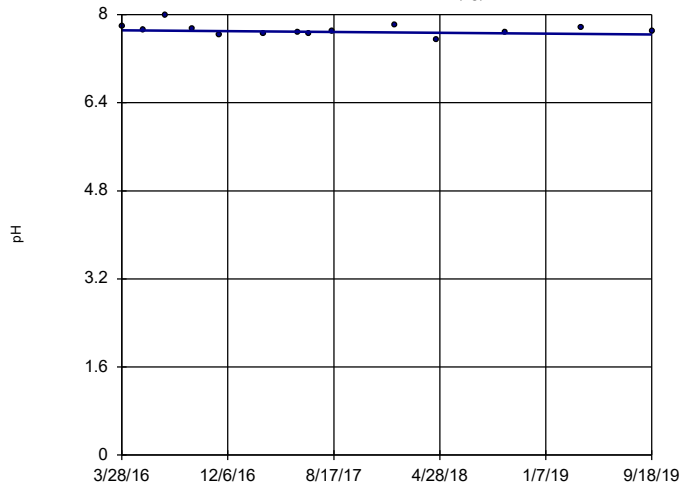


n = 22
 Slope = -0.05972
 units per year.
 Mann-Kendall
 statistic = -116
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-2 (bg)

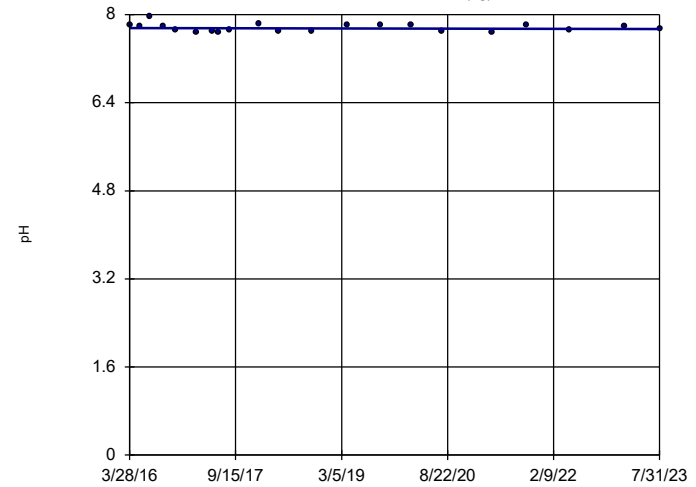


n = 14
 Slope = -0.02103
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

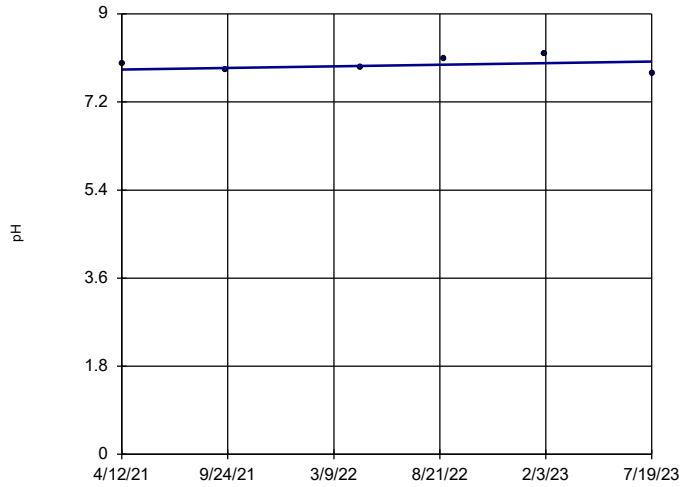


n = 21
 Slope = -0.002517
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)

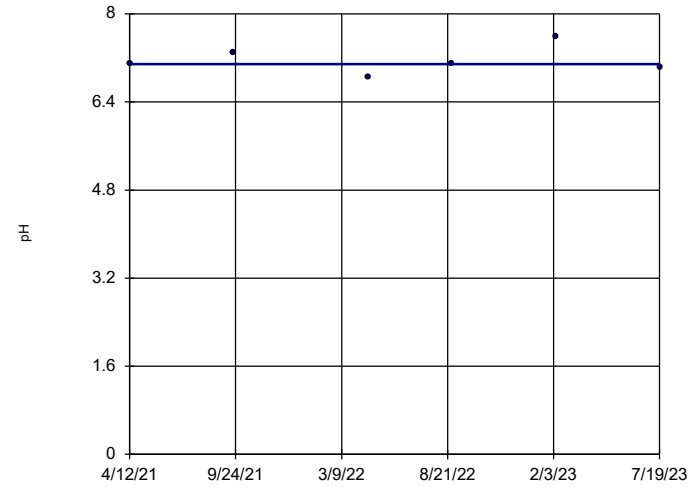


n = 6
 Slope = 0.07242
 units per year.
 Mann-Kendall
 statistic = 1
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)

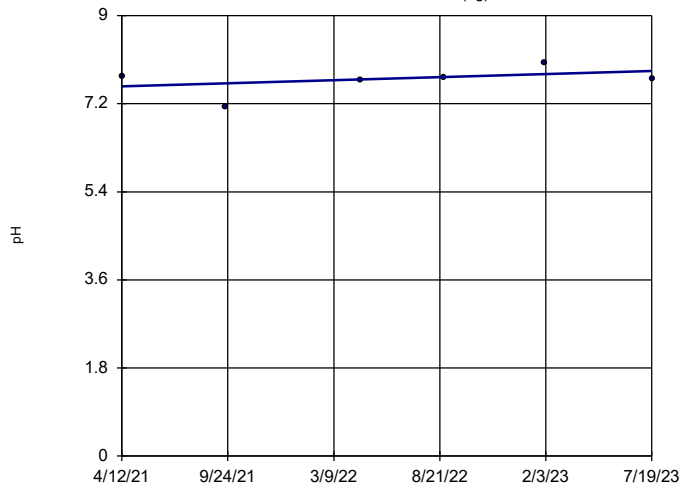


n = 6
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-40 (bg)

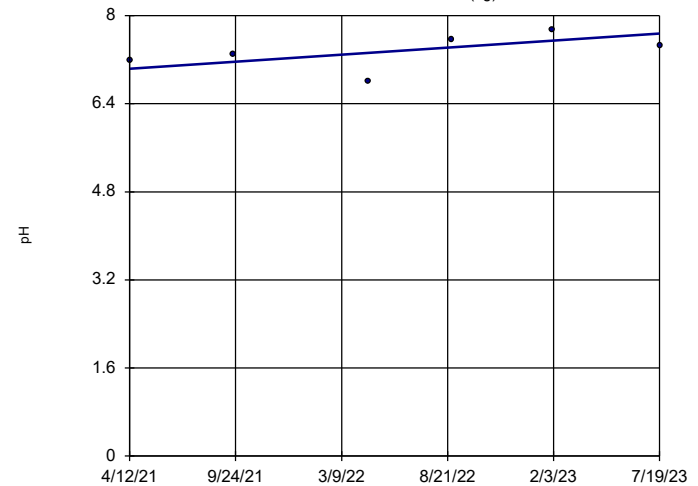


n = 6
 Slope = 0.1383
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-41 (bg)

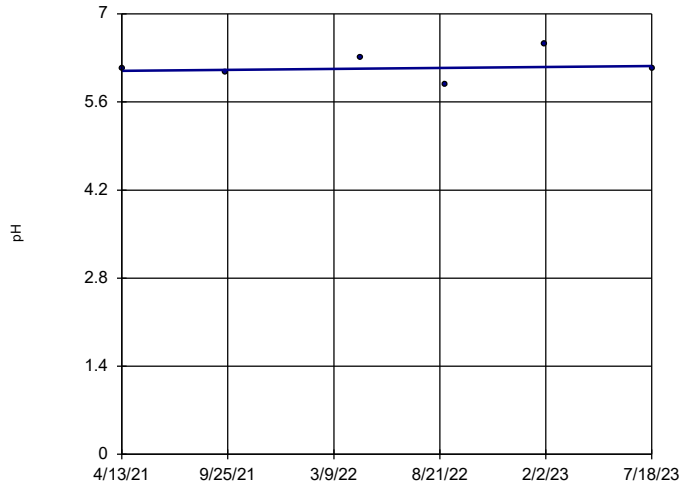


n = 6
 Slope = 0.2824
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)

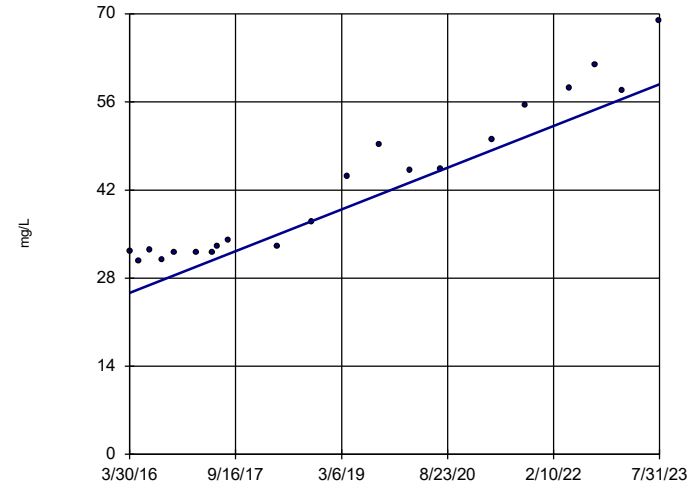


n = 6
 Slope = 0.03293
 units per year.
 Mann-Kendall
 statistic = 1
 critical = 14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-11

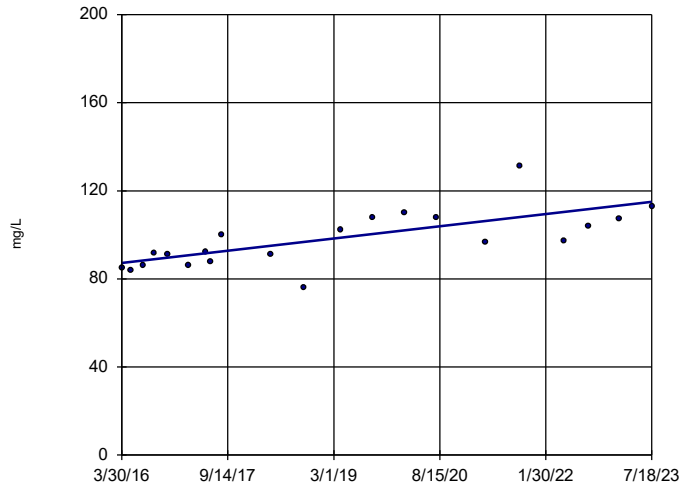


n = 21
 Slope = 4.518
 units per year.
 Mann-Kendall
 statistic = 176
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12

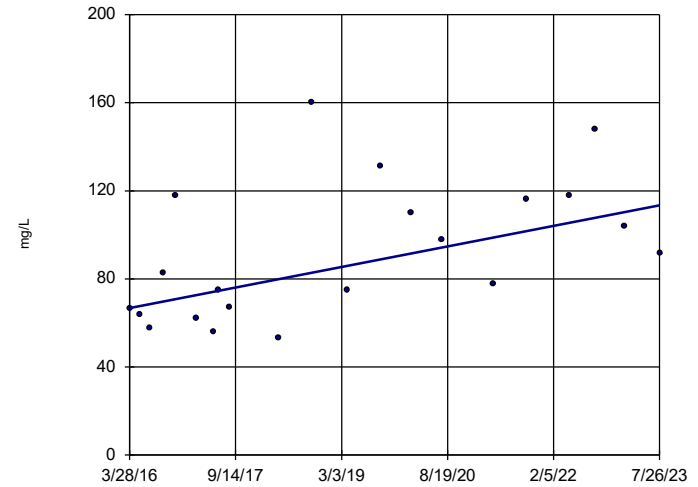


n = 21
 Slope = 3.792
 units per year.
 Mann-Kendall
 statistic = 123
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-14

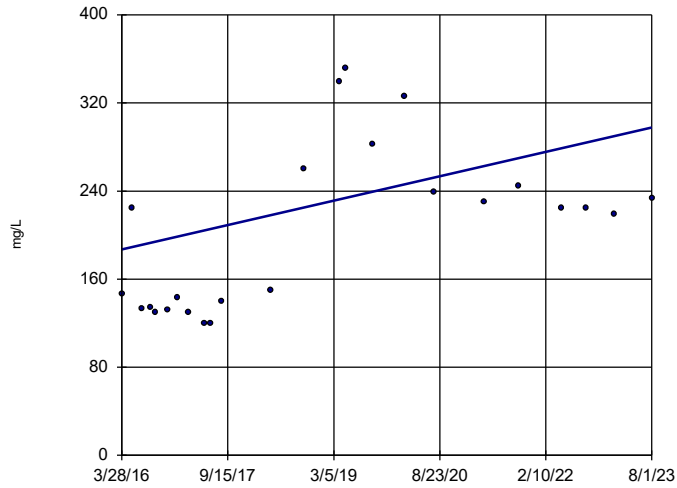


n = 21
 Slope = 6.374
 units per year.
 Mann-Kendall
 statistic = 77
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

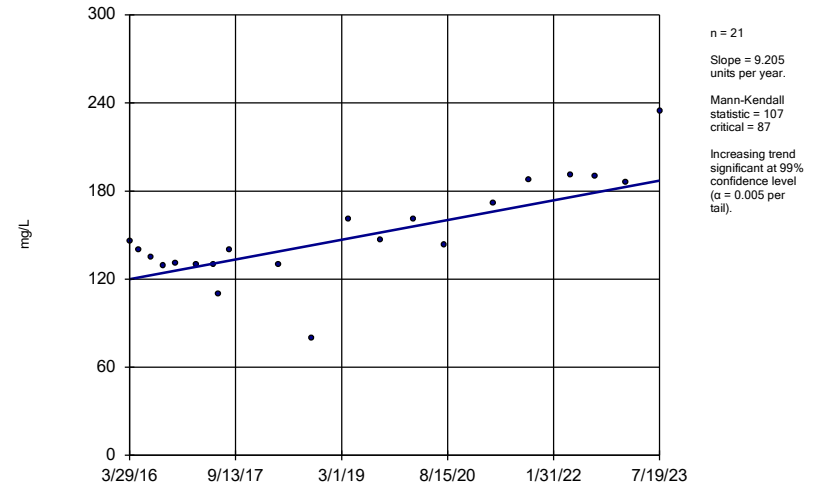
GN-AP-MW-15R



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

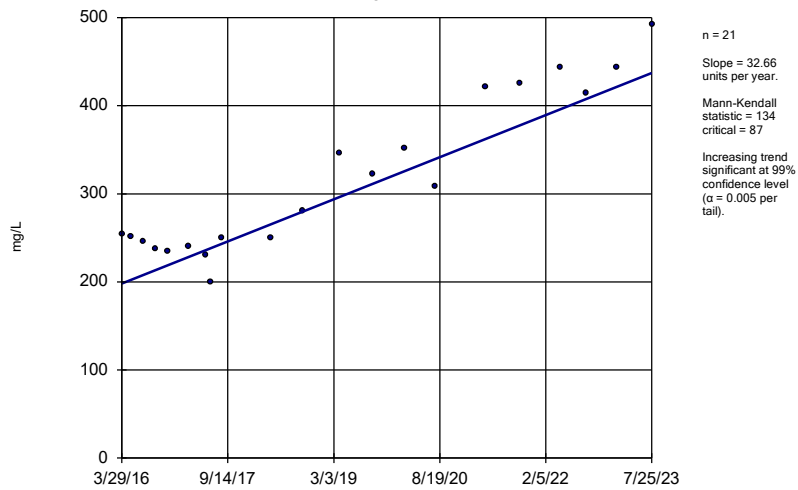
GN-AP-MW-16



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

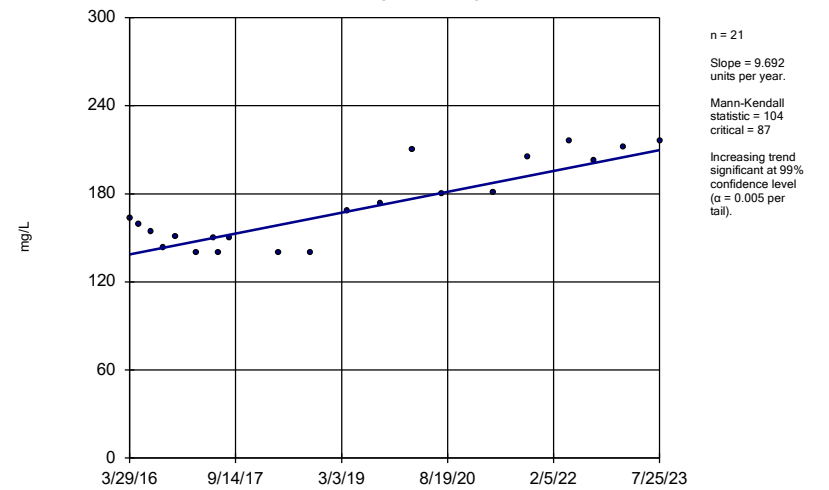
GN-AP-MW-17



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

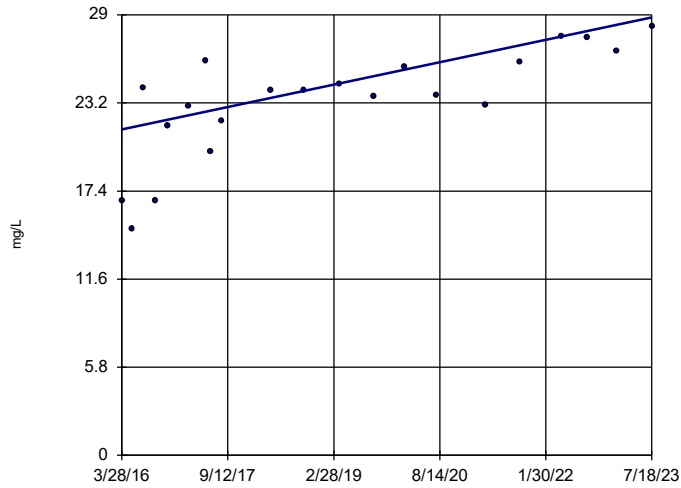
GN-AP-MW-18



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-19

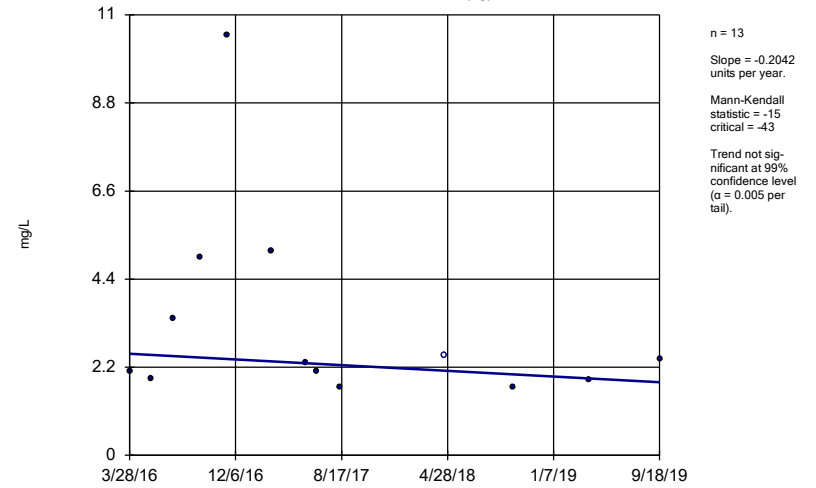


Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

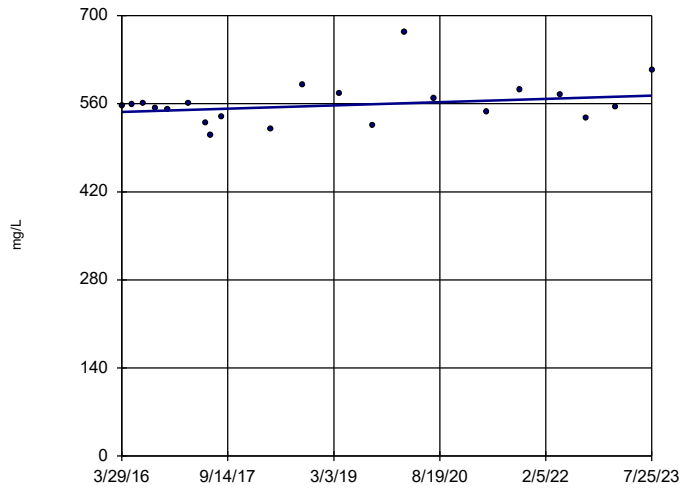
GN-AP-MW-2 (bg)



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

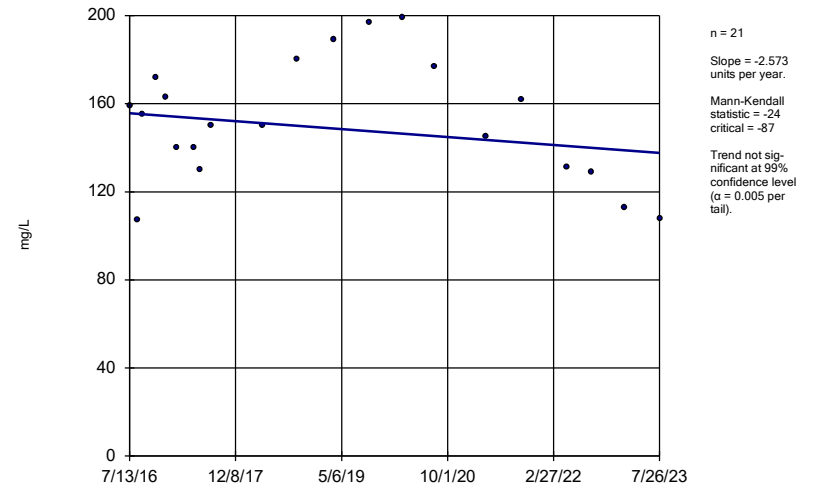
GN-AP-MW-20



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

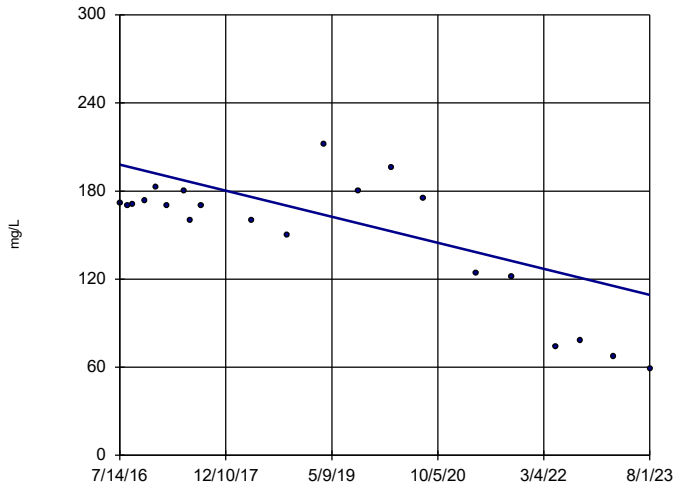
GN-AP-MW-21



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-22

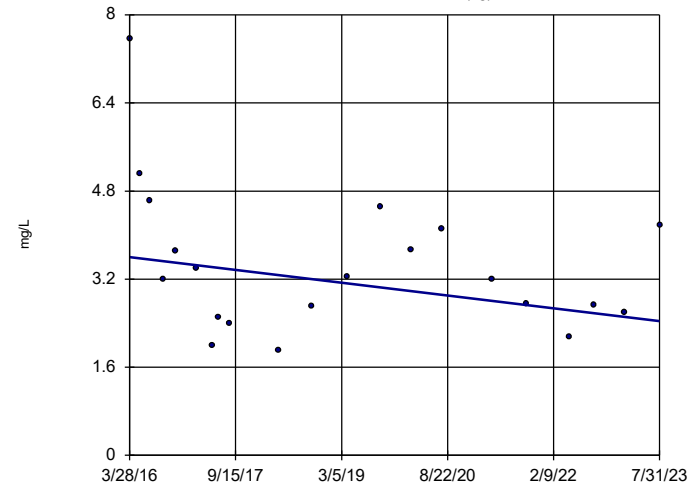


n = 21
 Slope = -12.58
 units per year.
 Mann-Kendall
 statistic = -93
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

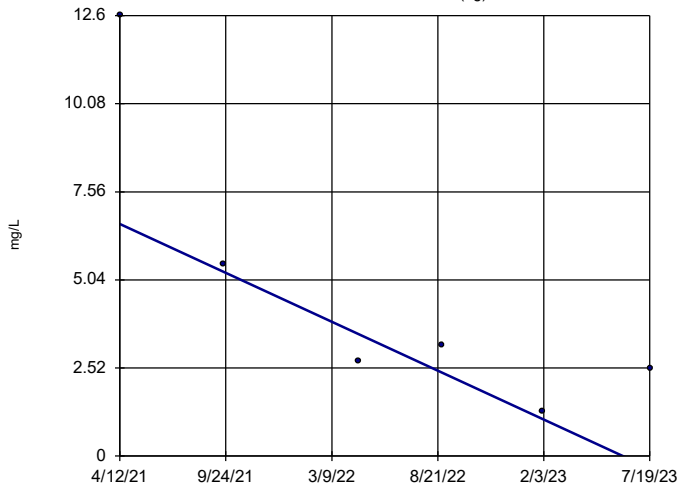


n = 21
 Slope = -0.1584
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)

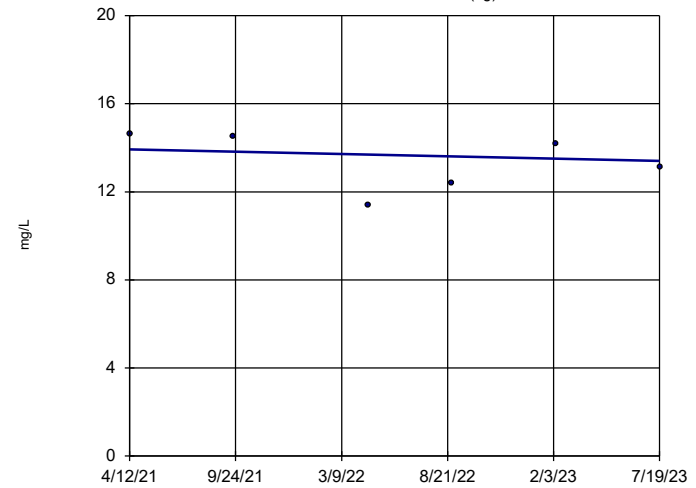


n = 6
 Slope = -3.086
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)

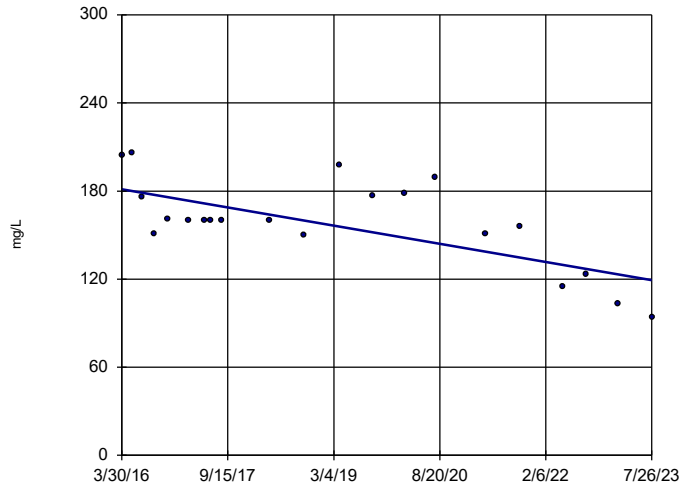


n = 6
 Slope = -0.2253
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

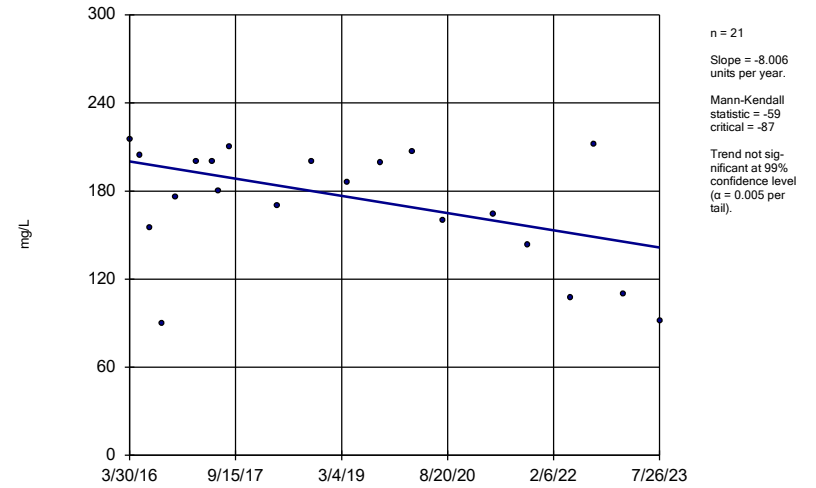
GN-AP-MW-6



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

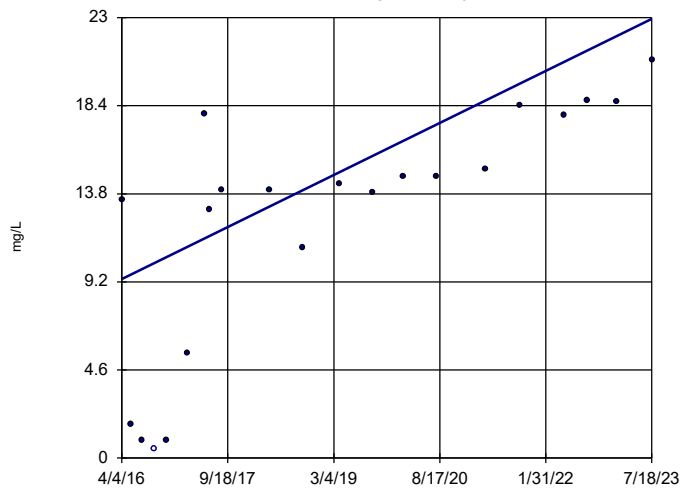
GN-AP-MW-7



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

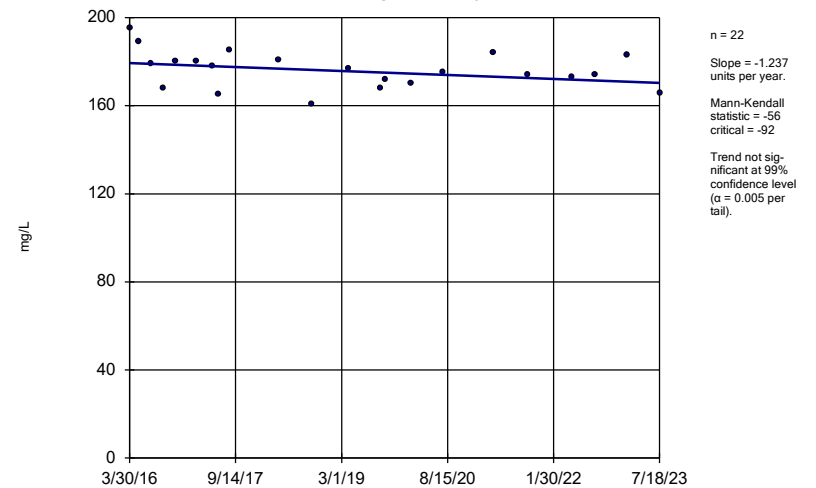
GN-AP-MW-9



Constituent: Sulfate Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

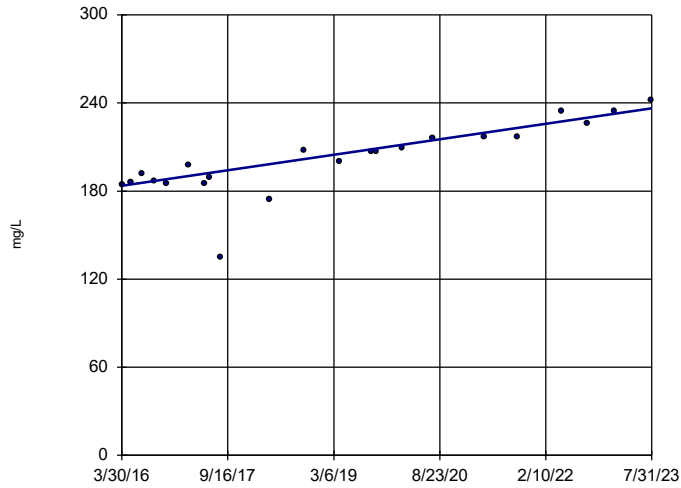
GN-AP-MW-10



Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-11

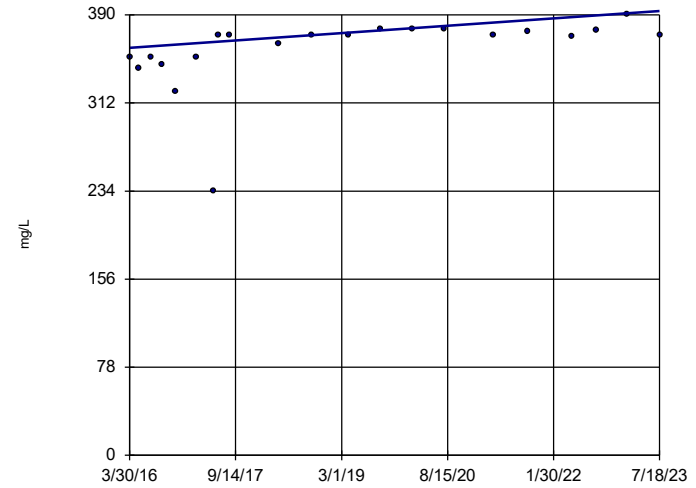


n = 22
 Slope = 7.165
 units per year.
 Mann-Kendall
 statistic = 167
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-12

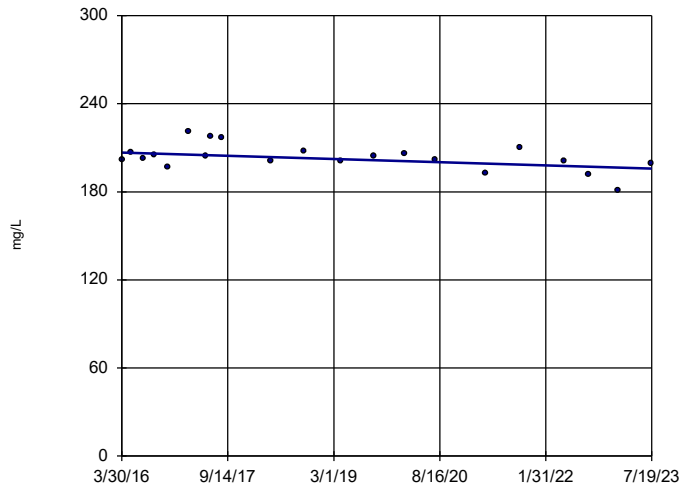


n = 21
 Slope = 4.492
 units per year.
 Mann-Kendall
 statistic = 113
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-13

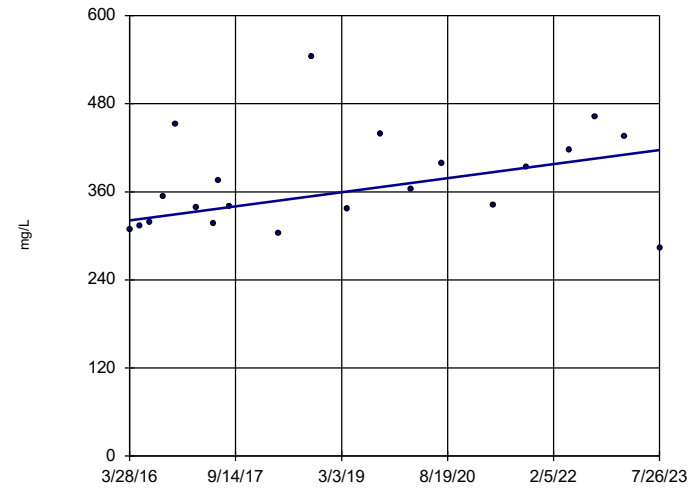


n = 21
 Slope = -1.503
 units per year.
 Mann-Kendall
 statistic = -69
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-14

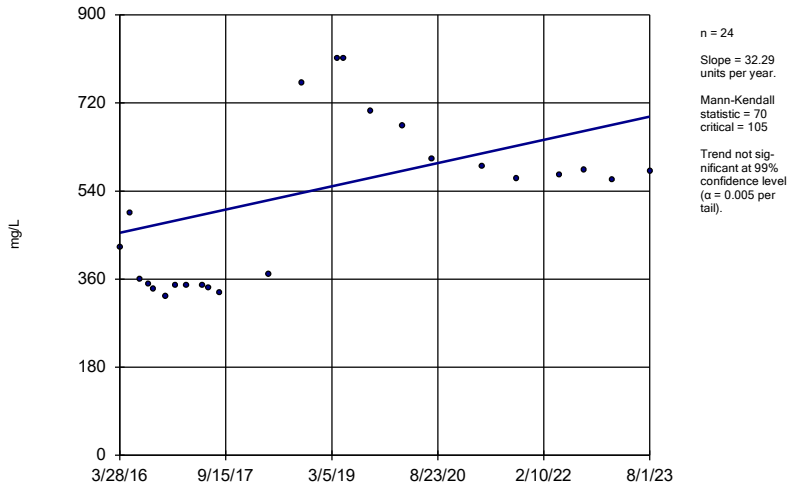


n = 21
 Slope = 13.09
 units per year.
 Mann-Kendall
 statistic = 64
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

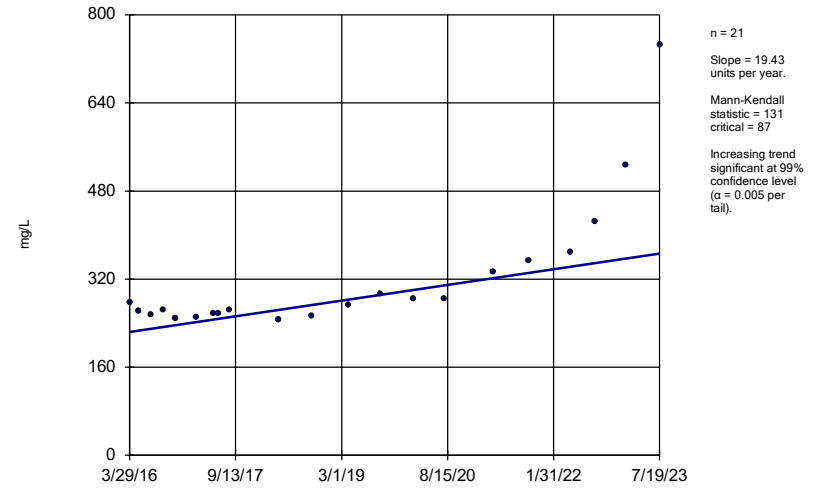
GN-AP-MW-15R



Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

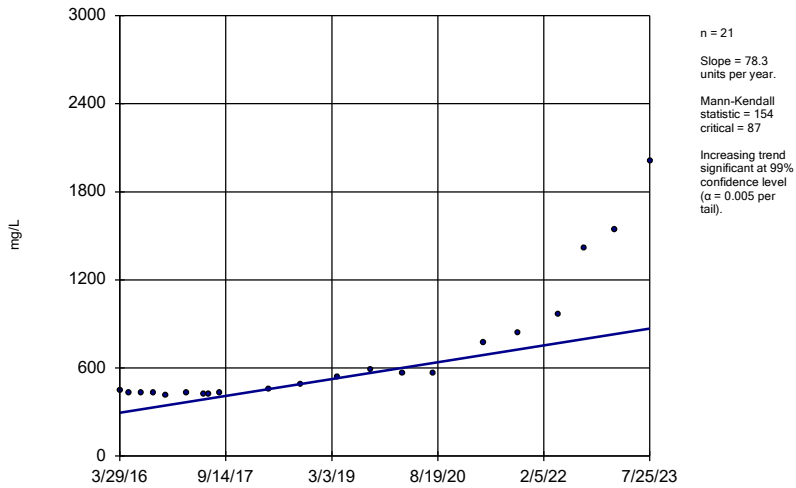
GN-AP-MW-16



Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

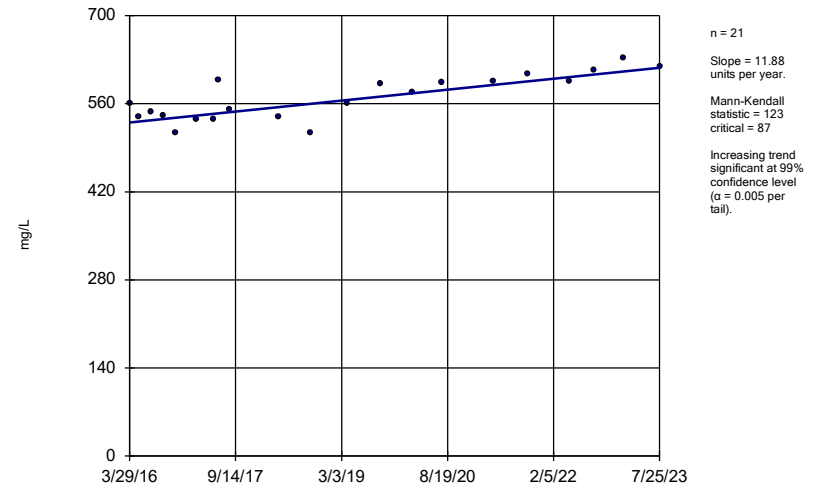
GN-AP-MW-17



Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

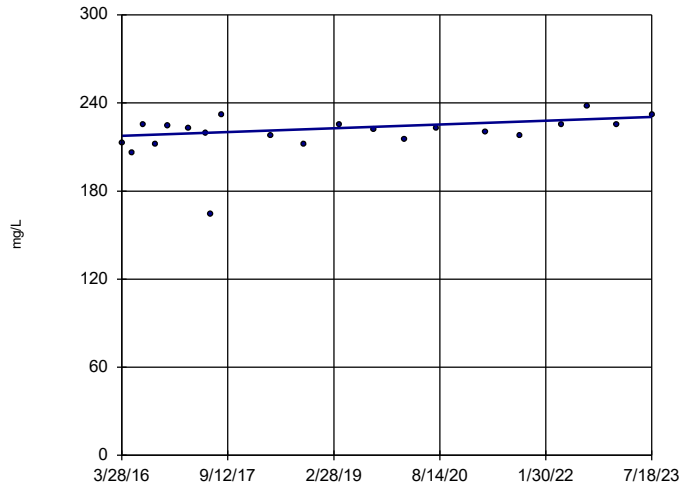
GN-AP-MW-18



Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-19

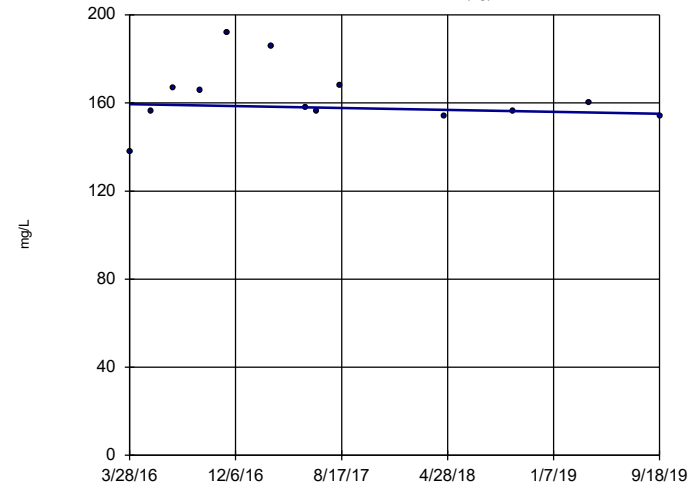


n = 21
 Slope = 1.751
 units per year.
 Mann-Kendall
 statistic = 68
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-2 (bg)

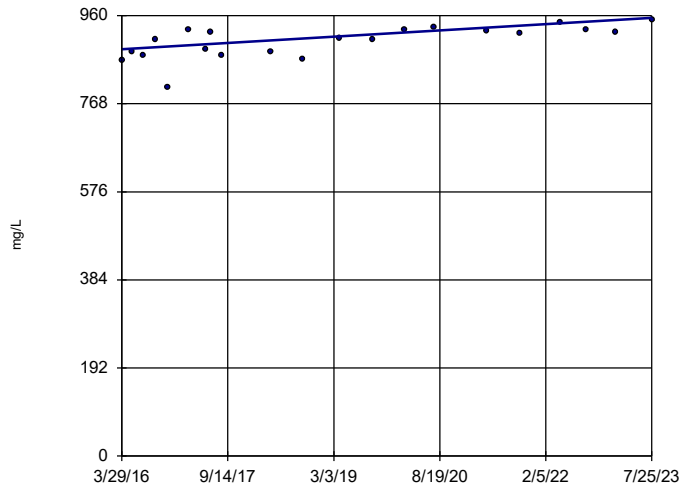


n = 13
 Slope = -1.254
 units per year.
 Mann-Kendall
 statistic = -10
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-20

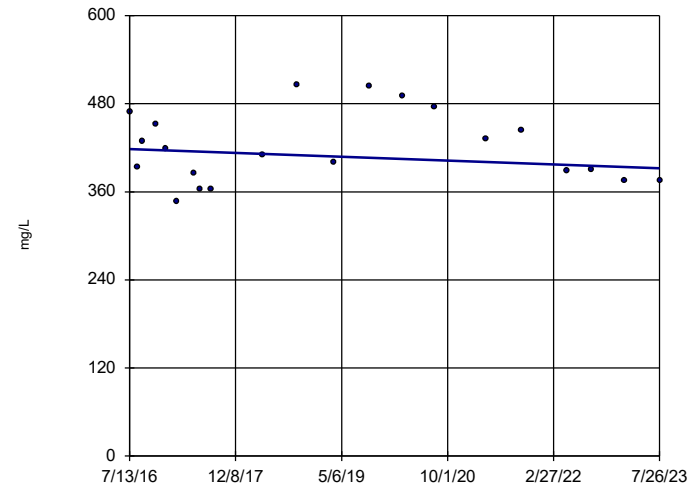


n = 21
 Slope = 9.367
 units per year.
 Mann-Kendall
 statistic = 109
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-21

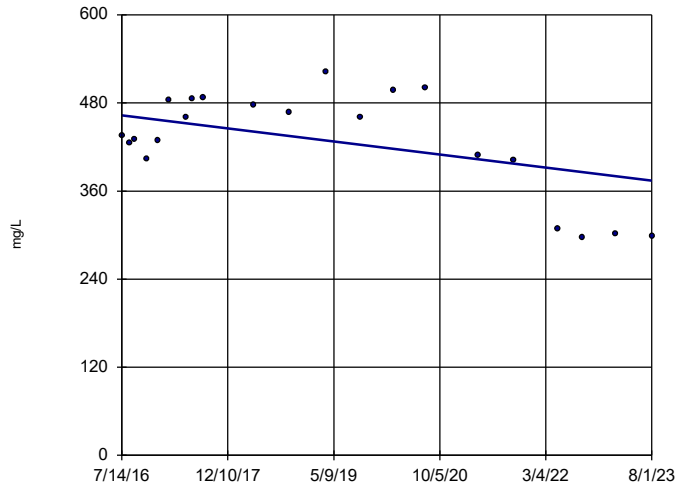


n = 21
 Slope = -3.716
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

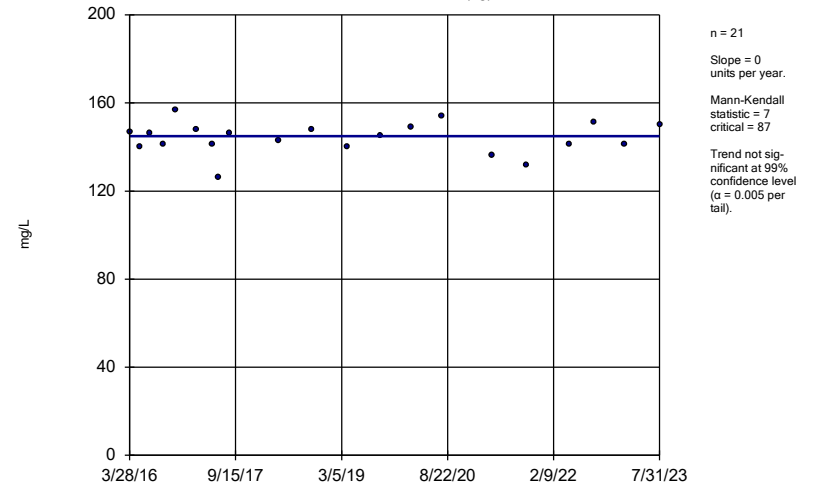
GN-AP-MW-22



Constituent: TDS Analysis Run 10/6/2023 12:09 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

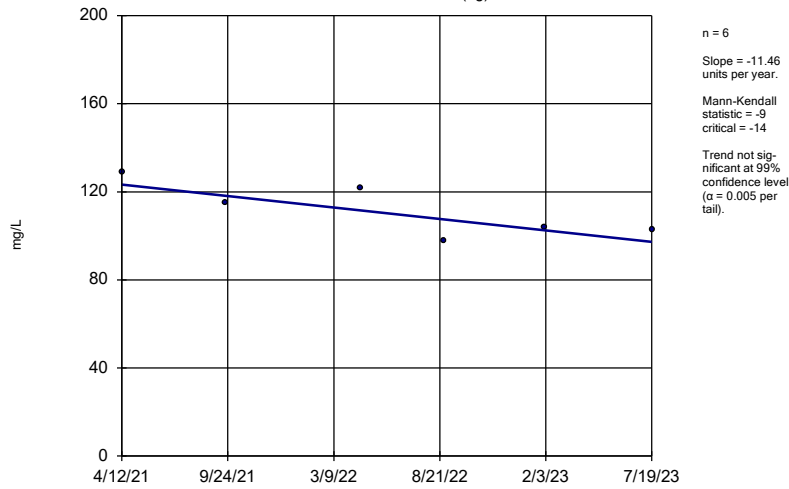
GN-AP-MW-3 (bg)



Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

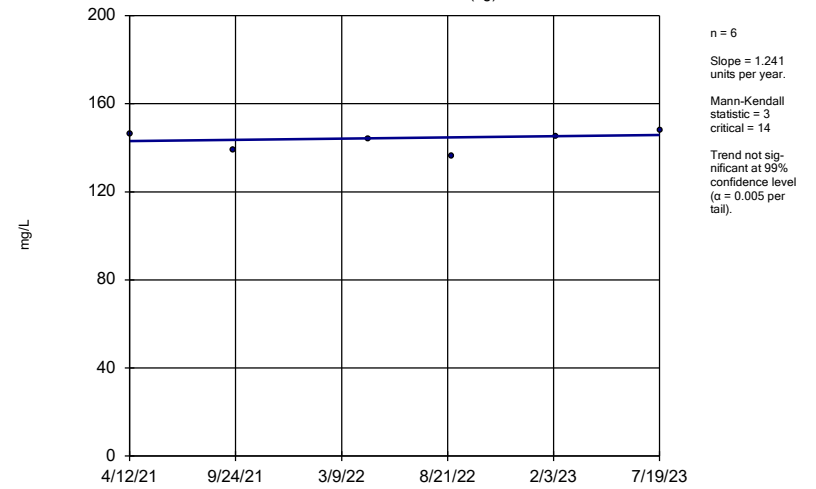
GN-AP-MW-38 (bg)



Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

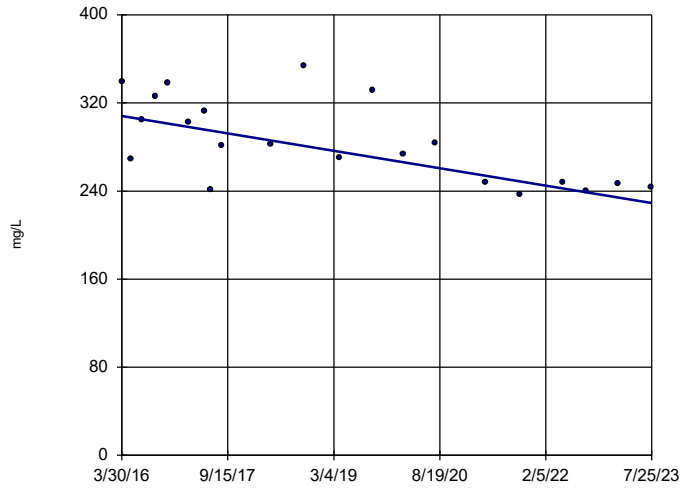
GN-AP-MW-39 (bg)



Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-4

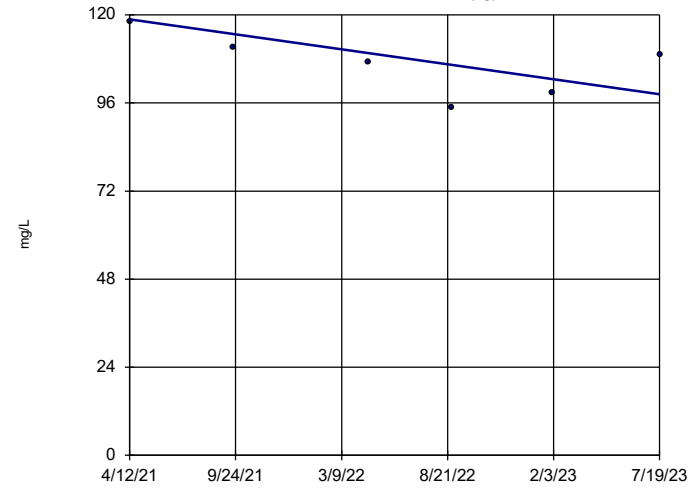


n = 21
 Slope = -10.77
 units per year.
 Mann-Kendall
 statistic = -.99
 critical = -.87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-40 (bg)

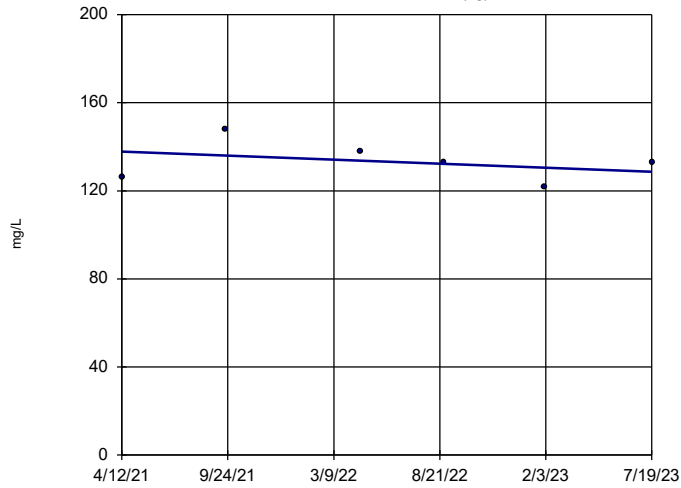


n = 6
 Slope = -9.015
 units per year.
 Mann-Kendall
 statistic = -.7
 critical = -.14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-41 (bg)

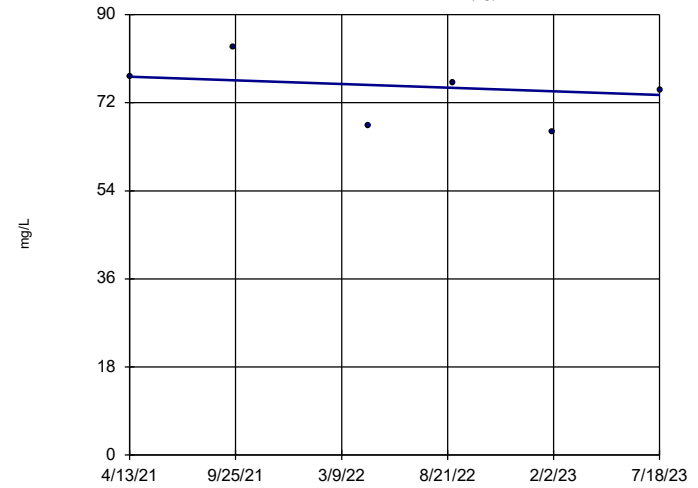


n = 6
 Slope = -4.002
 units per year.
 Mann-Kendall
 statistic = -.4
 critical = -.14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)

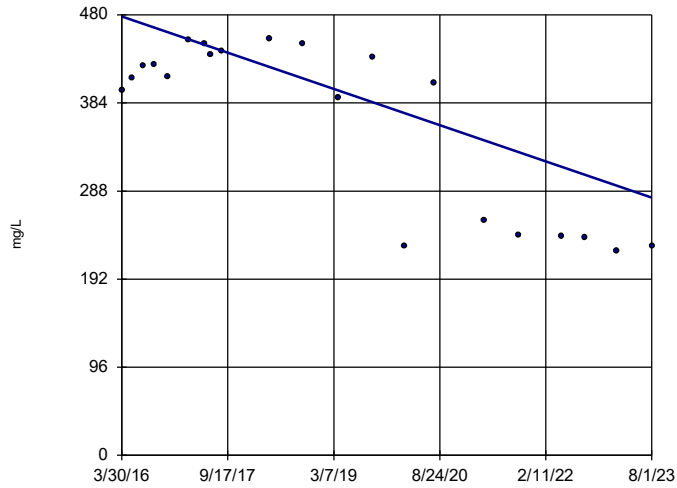


n = 6
 Slope = -1.648
 units per year.
 Mann-Kendall
 statistic = -.7
 critical = -.14
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-5

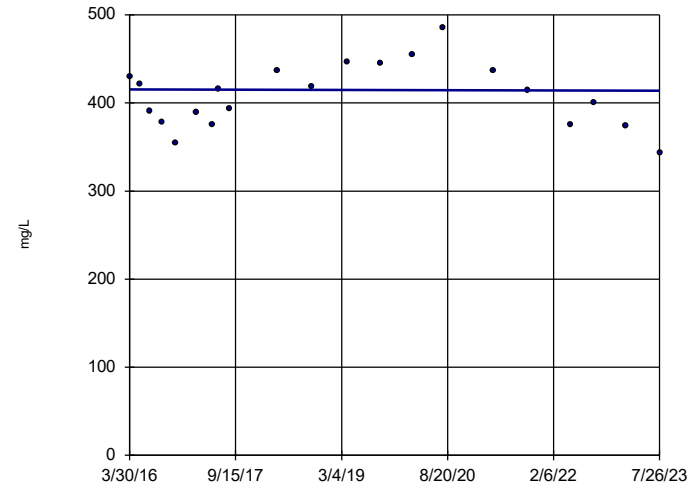


n = 21
 Slope = -26.88
 units per year.
 Mann-Kendall
 statistic = -89
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-6

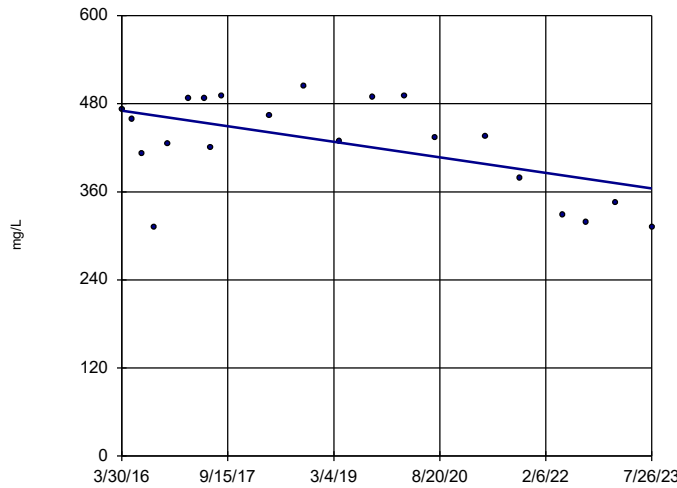


n = 21
 Slope = -0.2045
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-7

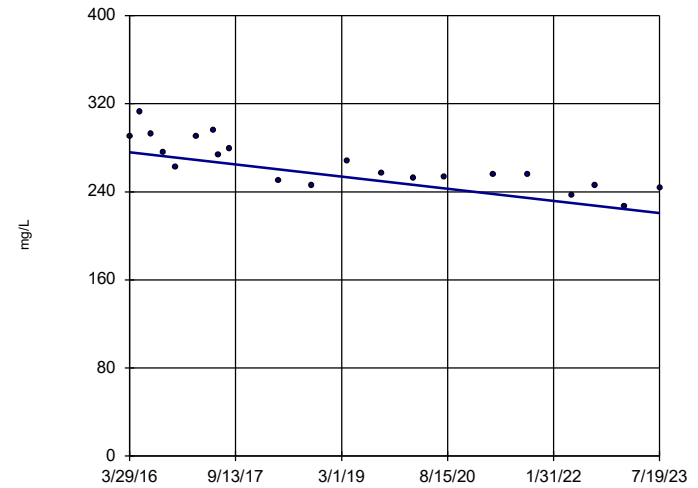


n = 21
 Slope = -14.46
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-8

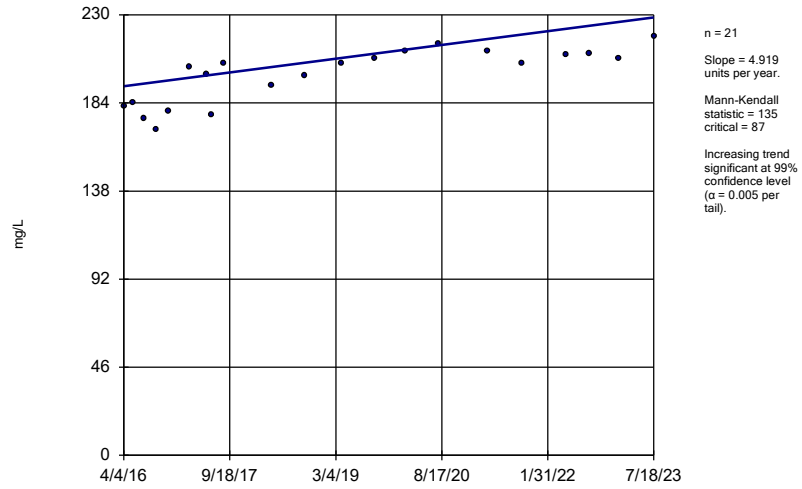


n = 21
 Slope = -7.546
 units per year.
 Mann-Kendall
 statistic = -139
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-9



Constituent: TDS Analysis Run 10/6/2023 12:10 PM View: Appendix III - Trend Test
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

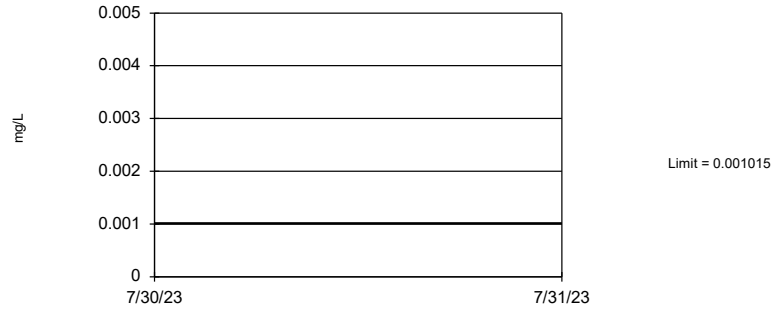
FIGURE G.

Upper Tolerance Limits Summary Table

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/12/2023, 9:44 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg.N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.001015	n/a	n/a	n/a	64	95.31	n/a	n/a	0.03752	NP Inter
Arsenic (mg/L)	0.00105	n/a	n/a	n/a	64	54.69	n/a	n/a	0.03752	NP Inter
Barium (mg/L)	0.0302	n/a	n/a	n/a	64	0	n/a	n/a	0.03752	NP Inter
Beryllium (mg/L)	0.001015	n/a	n/a	n/a	64	100	n/a	n/a	0.03752	NP Inter
Cadmium (mg/L)	0.000855	n/a	n/a	n/a	64	92.19	n/a	n/a	0.03752	NP Inter
Chromium (mg/L)	0.00113	n/a	n/a	n/a	64	46.88	n/a	n/a	0.03752	NP Inter
Cobalt (mg/L)	0.00168	n/a	n/a	n/a	64	73.44	n/a	n/a	0.03752	NP Inter
Combined Radium 226 + 228 (pCi/L)	3	n/a	n/a	n/a	62	0	n/a	n/a	0.04158	NP Inter
Fluoride (mg/L)	0.181	n/a	n/a	n/a	66	60.61	n/a	n/a	0.03387	NP Inter
Lead (mg/L)	0.00128	n/a	n/a	n/a	64	79.69	n/a	n/a	0.03752	NP Inter
Lithium (mg/L)	0.02	n/a	n/a	n/a	64	100	n/a	n/a	0.03752	NP Inter
Mercury (mg/L)	0.0005	n/a	n/a	n/a	64	100	n/a	n/a	0.03752	NP Inter
Molybdenum (mg/L)	0.01015	n/a	n/a	n/a	64	39.06	n/a	n/a	0.03752	NP Inter
Selenium (mg/L)	0.001015	n/a	n/a	n/a	64	98.44	n/a	n/a	0.03752	NP Inter
Thallium (mg/L)	0.000709	n/a	n/a	n/a	64	79.69	n/a	n/a	0.03752	NP Inter

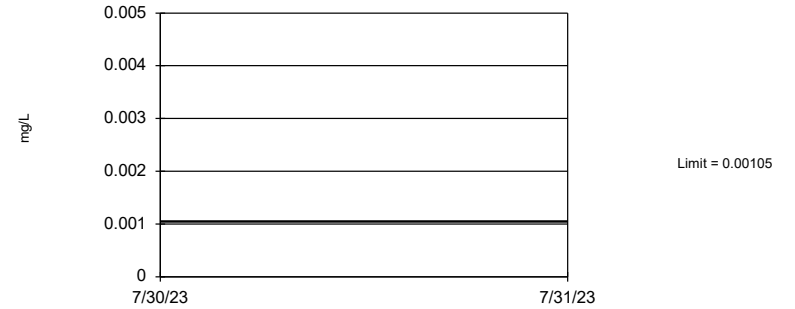
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 95.31% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Antimony Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

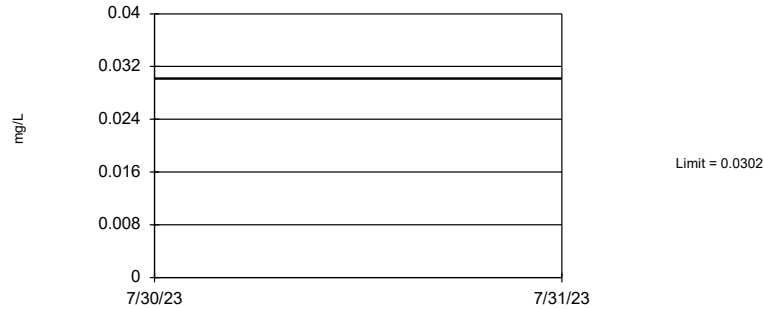
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 54.69% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Arsenic Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

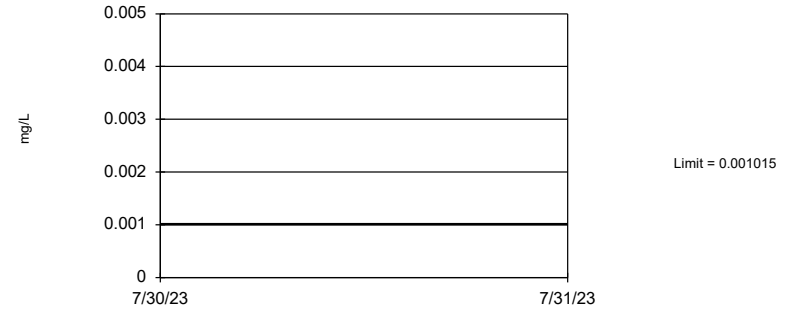
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Barium Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

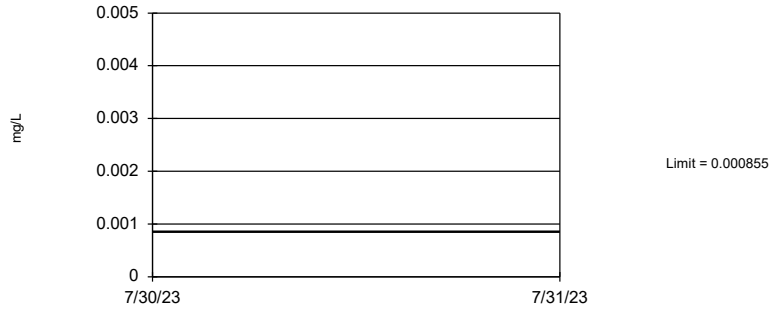
Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Beryllium Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

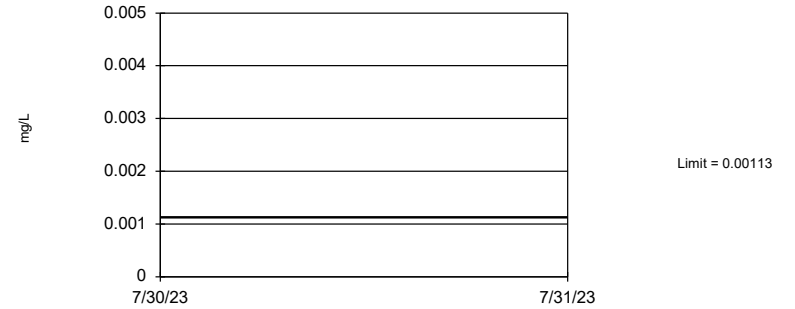
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 92.19% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Cadmium Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

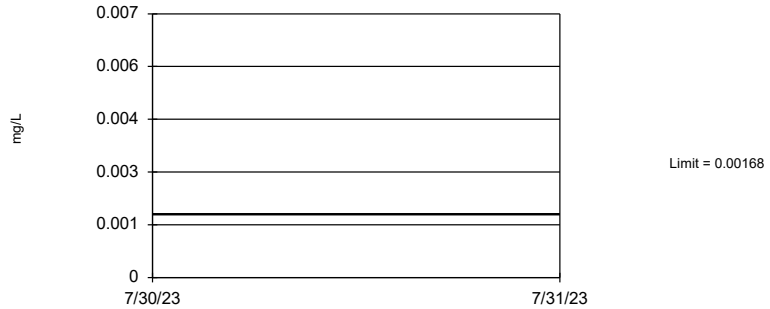
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 46.88% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Chromium Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 73.44% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Cobalt Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

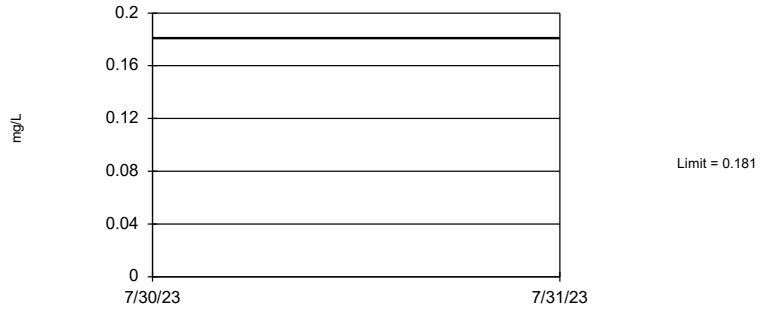
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 62 background values. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04158.

Constituent: Combined Radium 226 + 228 Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

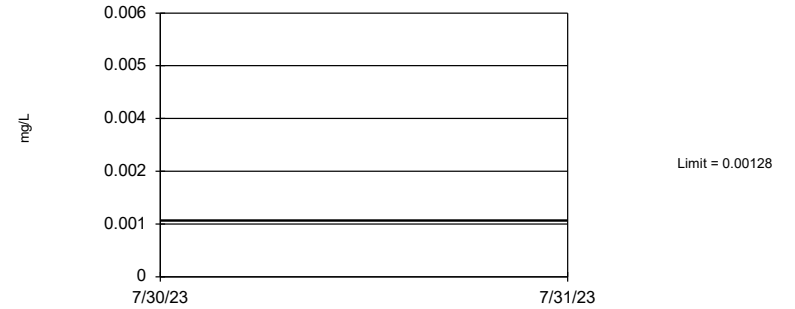
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 66 background values. 60.61% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03387.

Constituent: Fluoride Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 79.69% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Lead Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

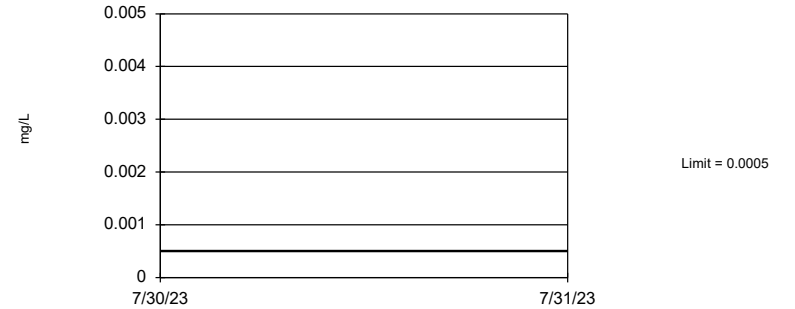
Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Lithium Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

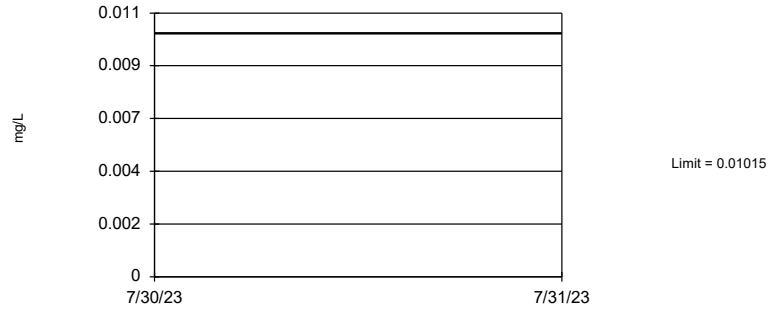
Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Mercury Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

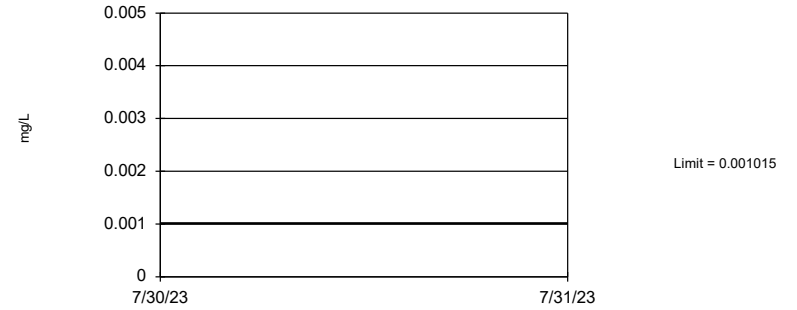
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 39.06% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Molybdenum Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

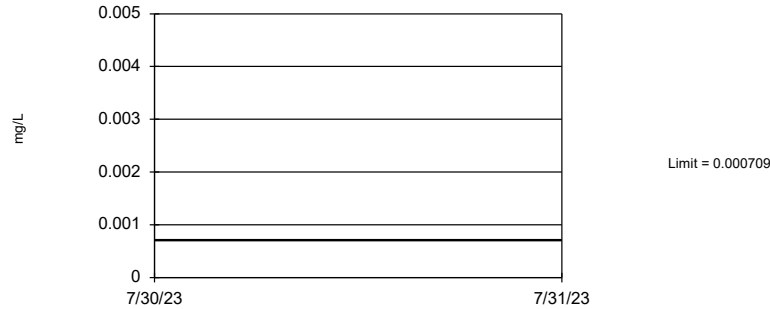
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 98.44% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Selenium Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 64 background values. 79.69% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03752.

Constituent: Thallium Analysis Run 10/12/2023 9:44 AM View: Appendix IV - UTLs
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

FIGURE H.

GASTON AP GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.001015	0.006
Arsenic	mg/L	0.00105	0.01
Barium	mg/L	0.0302	2
Beryllium	mg/L	0.001015	0.004
Cadmium	mg/L	0.000855	0.005
Chromium	mg/L	0.0113	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	0.01015	0.1
Selenium	mg/L	0.0102	0.05
Thallium	mg/L	0.000709	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 2023.

FIGURE I.

Appendix IV Confidence Intervals - Significant Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 8:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	15.67	10.26	5	Yes	8	4.641	0	None	x^3	0.01	Param.
Lithium (mg/L)	GN-AP-MW-16	0.1886	0.089	0.04	Yes	8	0.04699	0	None	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-17	1.258	0.8026	0.04	Yes	8	0.2149	0	None	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-18	0.0507	0.0456	0.04	Yes	8	0.002274	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-20	0.139	0.117	0.04	Yes	8	0.00902	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-15R	0.1779	0.1285	0.1	Yes	8	0.02558	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-16	0.5935	0.3909	0.1	Yes	8	0.1028	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-17	3.312	2.771	0.1	Yes	8	0.2553	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-20	0.8937	0.7833	0.1	Yes	8	0.05208	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 8:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GN-AP-MW-11	0.00322	0.001015	0.006	No	8	0.0009205	75	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-12	0.001015	0.001015	0.006	No	8	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-14	0.001015	0.001015	0.006	No	8	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-15R	0.001015	0.001015	0.006	No	8	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-16	0.001015	0.000516	0.006	No	8	0.0001764	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-17	0.001403	0.0004956	0.006	No	8	0.0004136	37.5	Kapla...	No	0.01	Param.
Antimony (mg/L)	GN-AP-MW-19	0.001015	0.001015	0.006	No	8	0	100	Kapla...	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-20	0.00188	0.000756	0.006	No	8	0.0003315	75	Kapla...	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-5	0.00132	0.00102	0.006	No	8	0.0001061	87.5	Kapla...	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-6	0.001015	0.001015	0.006	No	8	0	100	Kapla...	No	0.004	NP (NDs)
Antimony (mg/L)	GN-AP-MW-7	0.001015	0.001015	0.006	No	8	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GN-AP-MW-10	0.005	0.000173	0.01	No	8	0.00221	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-11	0.005	0.000149	0.01	No	8	0.002229	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-12	0.0043	0.002123	0.01	No	8	0.001027	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-13	0.005	0.00043	0.01	No	8	0.002063	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-14	0.005	0.000441	0.01	No	8	0.00205	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-15R	0.001063	0.0004803	0.01	No	8	0.0002751	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-16	0.005872	0.004878	0.01	No	8	0.0004687	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-17	0.01025	0.007428	0.01	No	8	0.001332	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-18	0.00416	0.00255	0.01	No	8	0.0005368	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-19	0.002442	0.001875	0.01	No	8	0.0002675	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-20	0.004287	0.003608	0.01	No	8	0.0003199	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-21	0.001536	0.0007068	0.01	No	8	0.000391	0	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-22	0.0001866	0.000133	0.01	No	8	0.00003094	37.5	Kapla...	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-4	0.005	0.000129	0.01	No	8	0.002242	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-5	0.005	0.000148	0.01	No	8	0.002212	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-6	0.0001628	0.0001058	0.01	No	8	0.0000422	37.5	Kapla...	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-7	0.005	0.000101	0.01	No	8	0.002243	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	GN-AP-MW-8	0.001854	0.0005576	0.01	No	8	0.0006114	12.5	None	No	0.01	Param.
Arsenic (mg/L)	GN-AP-MW-9	0.002984	0.002256	0.01	No	8	0.0003435	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-10	0.014	0.0128	2	No	8	0.0005657	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-11	0.009727	0.008361	2	No	8	0.0006446	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-12	0.07885	0.0726	2	No	8	0.002945	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-13	0.0429	0.03805	2	No	8	0.002284	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-14	0.07821	0.06121	2	No	8	0.00802	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-15R	0.06458	0.05244	2	No	8	0.005727	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-16	0.09017	0.0312	2	No	8	0.02782	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-17	0.1315	0.1045	2	No	8	0.01275	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-18	0.05504	0.04793	2	No	8	0.003354	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-19	0.0163	0.01348	2	No	8	0.001332	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-20	0.0605	0.05363	2	No	8	0.003241	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-21	0.04617	0.02931	2	No	8	0.007954	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-22	0.04045	0.02478	2	No	8	0.007394	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-4	0.0207	0.0151	2	No	8	0.002022	0	None	No	0.004	NP (normality)
Barium (mg/L)	GN-AP-MW-5	0.02906	0.02024	2	No	8	0.004163	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-6	0.02499	0.01963	2	No	8	0.002527	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-7	0.02504	0.01806	2	No	8	0.003292	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-8	0.01992	0.01403	2	No	8	0.00278	0	None	No	0.01	Param.
Barium (mg/L)	GN-AP-MW-9	0.1141	0.1054	2	No	8	0.004132	0	None	No	0.01	Param.
Cadmium (mg/L)	GN-AP-MW-16	0.000203	0.00008	0.005	No	8	0.0000526	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GN-AP-MW-17	0.001	0.000261	0.005	No	8	0.0003093	25	None	No	0.004	NP (normality)
Cadmium (mg/L)	GN-AP-MW-20	0.0001257	0.00008224	0.005	No	8	0.00005271	37.5	Kapla...	x ⁴ (1/3)	0.01	Param.
Chromium (mg/L)	GN-AP-MW-10	0.01	0.00025	0.1	No	8	0.004491	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-11	0.01	0.00065	0.1	No	8	0.004238	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-12	0.001015	0.000278	0.1	No	8	0.0003714	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-13	0.00102	0.000228	0.1	No	8	0.0003788	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-14	0.001015	0.000209	0.1	No	8	0.0003937	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-15R	0.00102	0.000237	0.1	No	8	0.00037	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-16	0.001015	0.00021	0.1	No	8	0.0003789	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-17	0.00102	0.000225	0.1	No	8	0.0003843	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-18	0.00102	0.00024	0.1	No	8	0.0003842	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-19	0.0012	0.00024	0.1	No	8	0.000404	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-20	0.001077	0.00002226	0.1	No	8	0.0005141	50	Kapla...	No	0.01	Param.
Chromium (mg/L)	GN-AP-MW-21	0.001015	0.00032	0.1	No	8	0.0003104	75	Kapla...	No	0.004	NP (NDs)
Chromium (mg/L)	GN-AP-MW-22	0.001015	0.000237	0.1	No	8	0.0003853	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-4	0.01	0.00055	0.1	No	8	0.00428	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-5	0.01	0.000268	0.1	No	8	0.004467	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-6	0.001015	0.000259	0.1	No	8	0.0003693	62.5	None	No	0.004	NP (NDs)

Appendix IV Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 8:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GN-AP-MW-7	0.00102	0.000234	0.1	No	8	0.0003576	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-8	0.00102	0.000259	0.1	No	8	0.0003657	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GN-AP-MW-9	0.001015	0.000286	0.1	No	8	0.0003835	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-11	0.000203	0.000075	0.006	No	8	0.00004525	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-12	0.005	0.000113	0.006	No	8	0.002229	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-13	0.0001562	0.0001126	0.006	No	8	0.00003816	37.5	Kapla...	No	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-15R	0.005	0.000193	0.006	No	8	0.002179	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-16	0.005	0.000679	0.006	No	8	0.001867	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-18	0.002179	0.0009719	0.006	No	8	0.001665	25	Kapla...	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-19	0.005	0.0000907	0.006	No	8	0.002238	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-21	0.001123	0.0003407	0.006	No	8	0.002009	25	Kapla...	ln(x)	0.01	Param.
Cobalt (mg/L)	GN-AP-MW-22	0.005	0.000087	0.006	No	8	0.002212	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-4	0.000203	0.000078	0.006	No	8	0.00004419	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GN-AP-MW-5	0.000209	0.00009	0.006	No	8	0.00005139	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	GN-AP-MW-8	0.000203	0.0000945	0.006	No	8	0.00003836	87.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-10	0.6897	0.2083	5	No	8	0.2271	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-11	0.4217	0.04958	5	No	8	0.1755	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-12	1.561	0.8184	5	No	8	0.3502	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-13	1.113	0.5193	5	No	8	0.2803	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-14	1.616	0.4619	5	No	8	0.5445	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-15R	1.612	0.7521	5	No	8	0.5056	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-16	6.049	3.361	5	No	8	1.268	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-17	1.825	0.786	5	No	8	0.4903	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-18	2.343	1.139	5	No	8	0.5679	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-19	1.367	0.4808	5	No	8	0.4182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	15.67	10.26	5	Yes	8	4.641	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-21	0.9508	0.198	5	No	8	0.3551	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-22	0.8152	0.442	5	No	8	0.176	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-4	1.011	0.4151	5	No	8	0.2811	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-5	1.298	0.4631	5	No	8	0.3938	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-6	0.8233	0.3264	5	No	8	0.2344	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-7	0.9226	0.4329	5	No	8	0.231	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-8	0.5868	0.2094	5	No	8	0.178	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-9	1.08	0.3766	5	No	8	0.3318	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-10	0.125	0.051	4	No	8	0.03181	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-11	0.125	0.0546	4	No	8	0.03085	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-12	0.125	0.0571	4	No	8	0.02875	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-13	0.125	0.06	4	No	8	0.02967	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-14	0.1337	0.07999	4	No	8	0.02533	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-15R	0.1029	0.06786	4	No	8	0.01652	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-16	0.1445	0.09545	4	No	8	0.02312	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-17	0.1977	0.1103	4	No	8	0.04127	0	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-18	0.125	0.0628	4	No	8	0.02927	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-19	0.125	0.0557	4	No	8	0.02595	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-20	0.125	0.0566	4	No	8	0.0304	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-21	0.125	0.0676	4	No	8	0.02582	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-22	0.125	0.0686	4	No	8	0.02502	37.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GN-AP-MW-4	0.125	0.0506	4	No	8	0.03068	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-5	0.09938	0.06658	4	No	8	0.02538	37.5	Kapla...	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-6	0.125	0.0862	4	No	8	0.01773	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-7	0.125	0.0523	4	No	8	0.02988	62.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GN-AP-MW-8	0.1185	0.06409	4	No	8	0.02567	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GN-AP-MW-9	0.1619	0.09884	4	No	8	0.02976	0	None	No	0.01	Param.
Lead (mg/L)	GN-AP-MW-11	0.000203	0.000107	0.015	No	8	0.00003394	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-13	0.000203	0.000106	0.015	No	8	0.00003429	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-14	0.0002	0.000069	0.015	No	8	0.00004632	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-17	0.000203	0.00007	0.015	No	8	0.00004702	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-19	0.000391	0.00019	0.015	No	8	0.00006812	75	None	No	0.004	NP (NDs)
Lead (mg/L)	GN-AP-MW-5	0.005	0.0001	0.015	No	8	0.002235	25	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-15R	0.0848	0.0258	0.04	No	8	0.02087	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-16	0.1886	0.089	0.04	Yes	8	0.04699	0	None	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-17	1.258	0.8026	0.04	Yes	8	0.2149	0	None	No	0.01	Param.
Lithium (mg/L)	GN-AP-MW-18	0.0507	0.0456	0.04	Yes	8	0.002274	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-20	0.139	0.117	0.04	Yes	8	0.00902	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GN-AP-MW-5	0.0361	0.00862	0.04	No	8	0.008326	62.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GN-AP-MW-6	0.02	0.00779	0.04	No	8	0.004276	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GN-AP-MW-10	0.01015	0.000158	0.1	No	8	0.005145	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-11	0.01015	0.00026	0.1	No	8	0.005095	37.5	None	No	0.004	NP (normality)

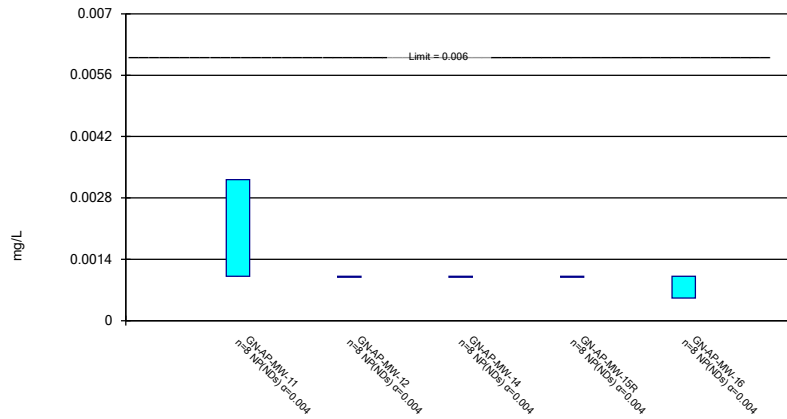
Appendix IV Confidence Intervals - All Results

Plant Gaston Client: Southern Company Data: Gaston Ash Pond Printed 10/4/2023, 8:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	GN-AP-MW-12	0.01015	0.000272	0.1	No	8	0.005089	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-13	0.01015	0.0003	0.1	No	8	0.005088	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-14	0.01015	0.000298	0.1	No	8	0.004944	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-15R	0.1779	0.1285	0.1	Yes	8	0.02558	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-16	0.5935	0.3909	0.1	Yes	8	0.1028	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-17	3.312	2.771	0.1	Yes	8	0.2553	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-18	0.07109	0.02977	0.1	No	8	0.02152	0	None	x^3	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-19	0.01483	0.01314	0.1	No	8	0.0007954	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-20	0.8937	0.7833	0.1	Yes	8	0.05208	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-21	0.01252	0.008209	0.1	No	8	0.002034	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-22	0.0605	0.03337	0.1	No	8	0.01409	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-4	0.01015	0.000137	0.1	No	8	0.00506	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-5	0.215	0.0299	0.1	No	8	0.06143	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-6	0.01563	0.006165	0.1	No	8	0.004464	0	None	No	0.01	Param.
Molybdenum (mg/L)	GN-AP-MW-7	0.01015	0.00021	0.1	No	8	0.005101	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-8	0.01015	0.000577	0.1	No	8	0.004842	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GN-AP-MW-9	0.01015	0.000821	0.1	No	8	0.00469	37.5	None	No	0.004	NP (normality)
Selenium (mg/L)	GN-AP-MW-10	0.00102	0.000532	0.05	No	8	0.0002452	62.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GN-AP-MW-17	0.001015	0.00059	0.05	No	8	0.0001503	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-16	0.000203	0.000105	0.002	No	8	0.00003465	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GN-AP-MW-17	0.0002	0.00008	0.002	No	8	0.00005549	50	None	No	0.004	NP (normality)
Thallium (mg/L)	GN-AP-MW-18	0.0004777	0.0003888	0.002	No	8	0.00004198	0	None	No	0.01	Param.

Non-Parametric Confidence Interval

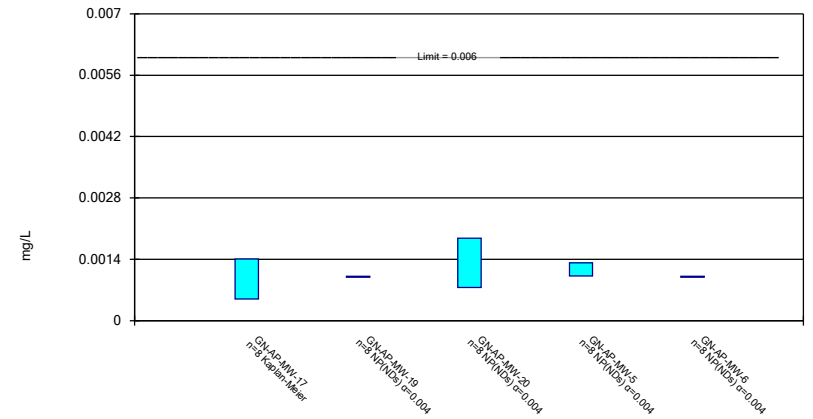
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Constituent: Antimony Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

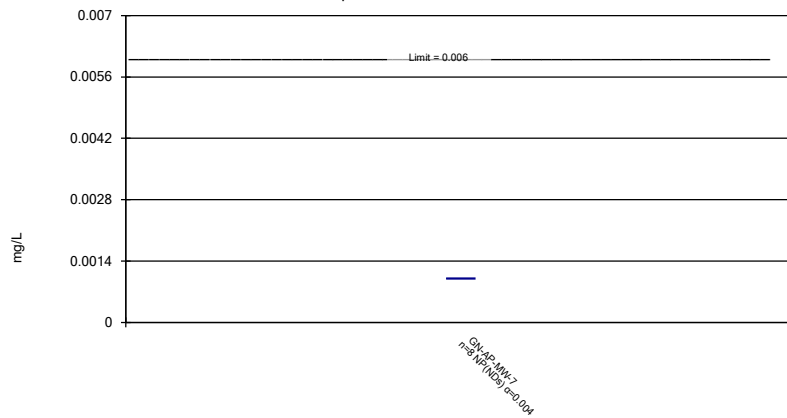
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Constituent: Antimony Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

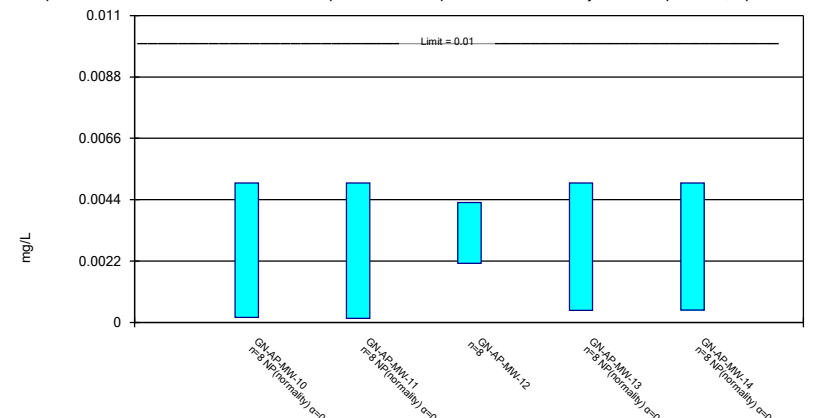
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Constituent: Antimony Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

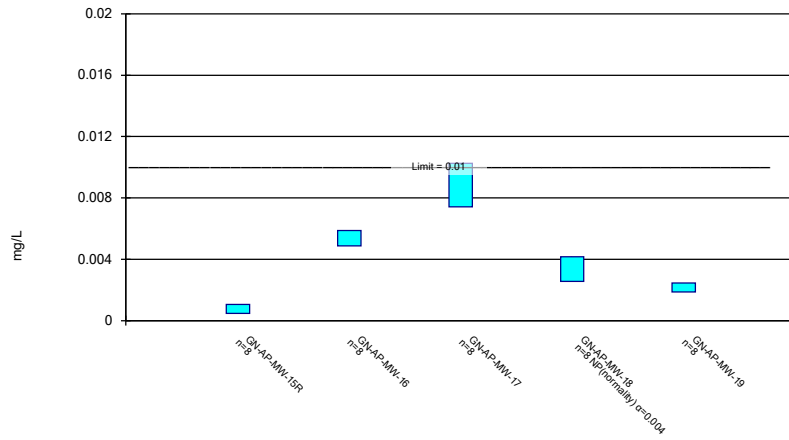
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Constituent: Arsenic Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

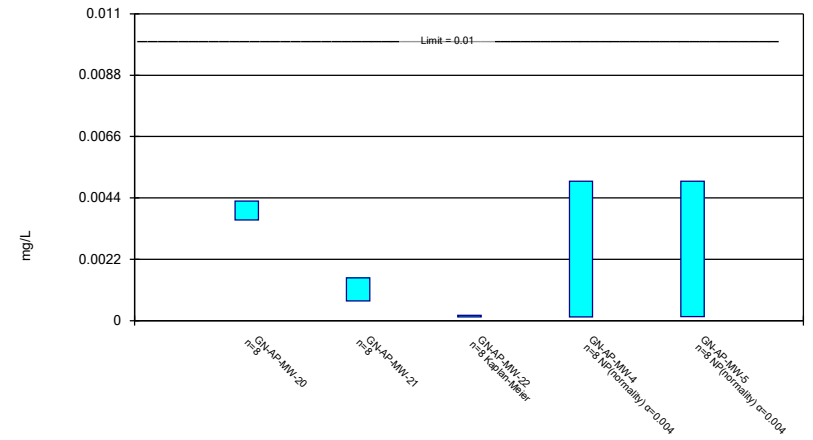
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Constituent: Arsenic Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

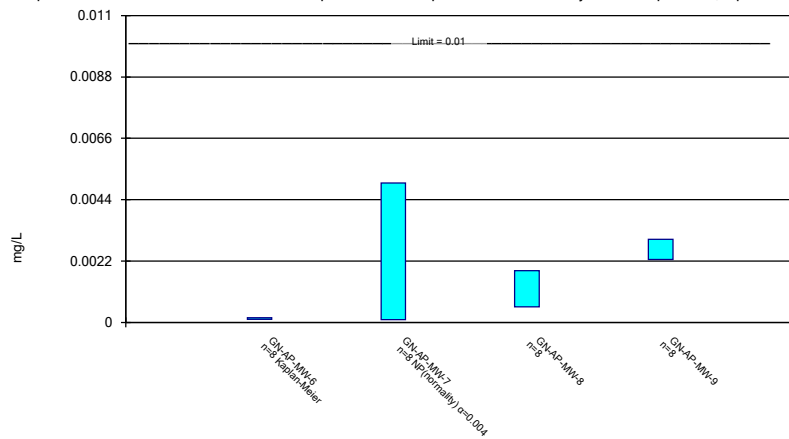
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

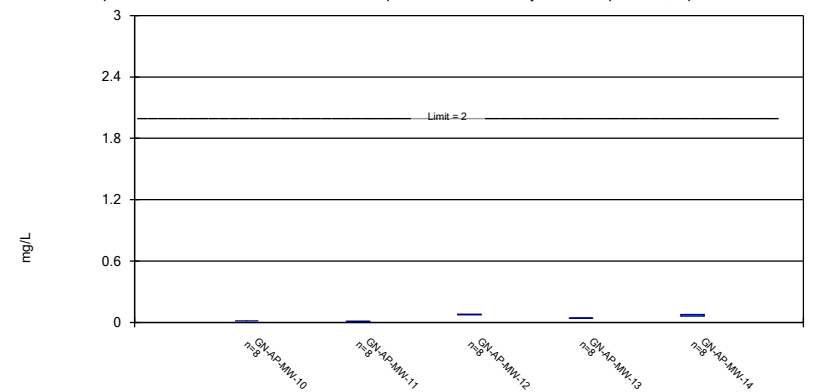
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

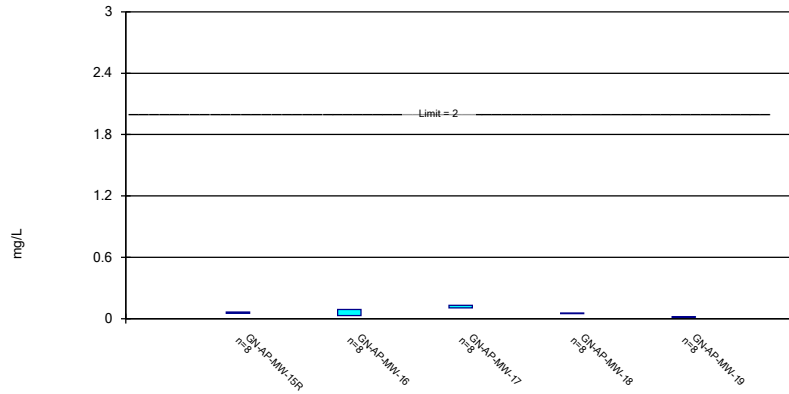
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

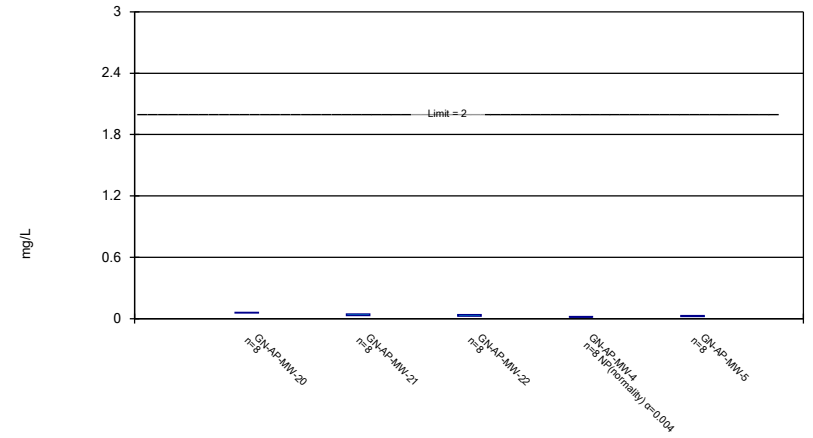
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

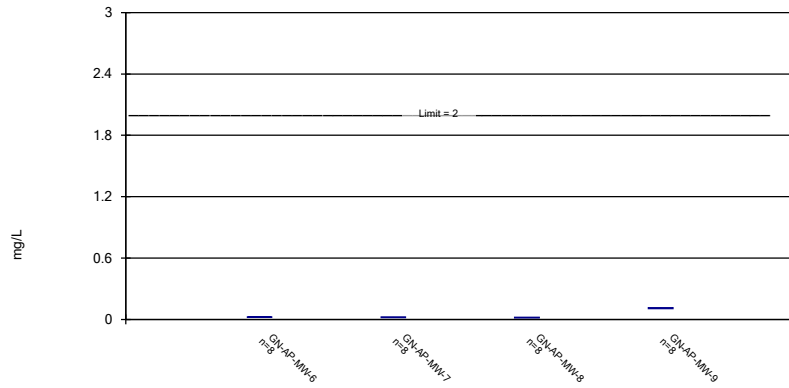
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

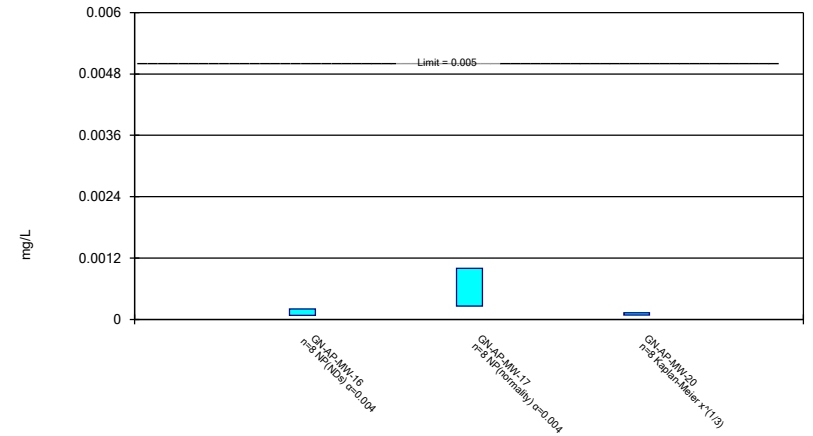
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

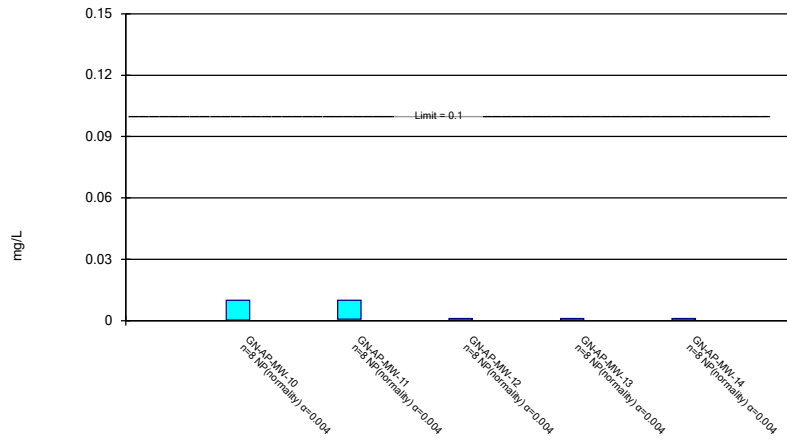
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

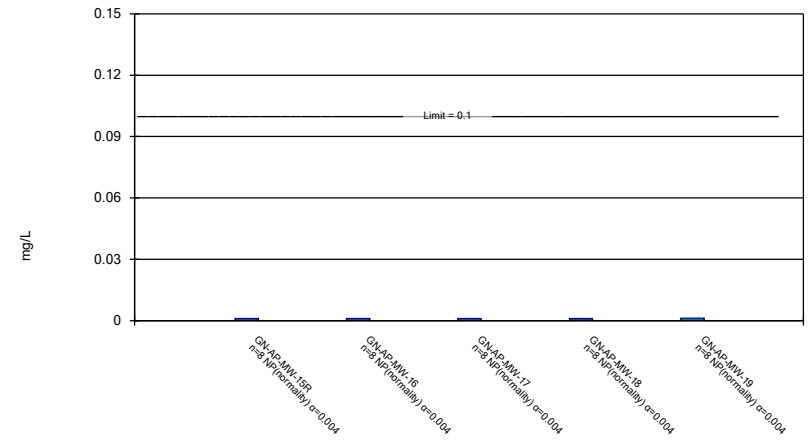
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

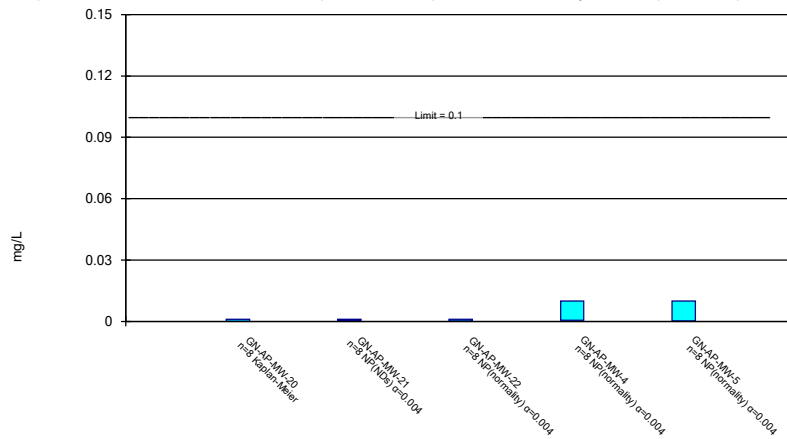
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

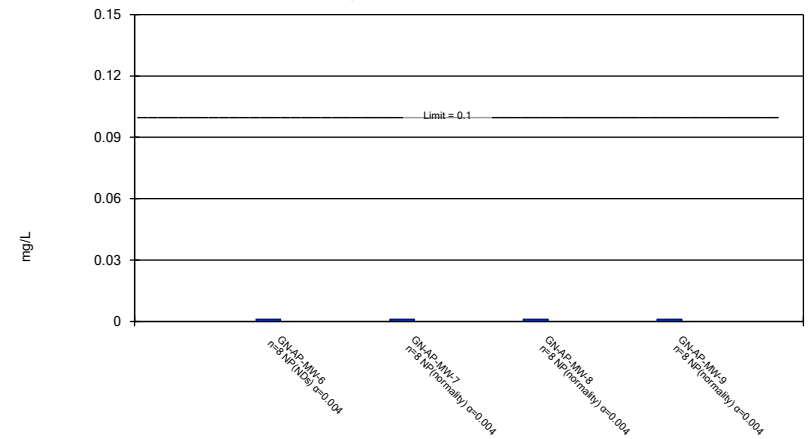
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

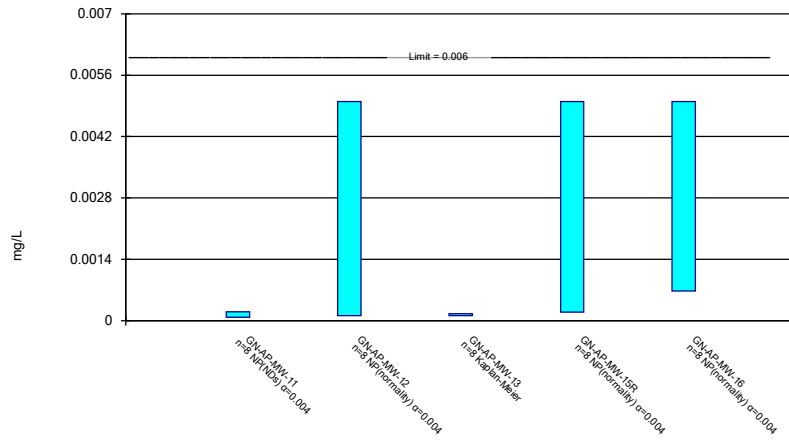
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

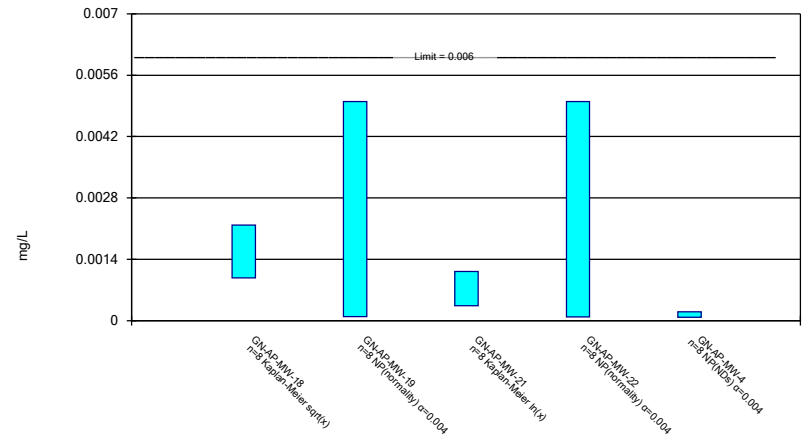
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

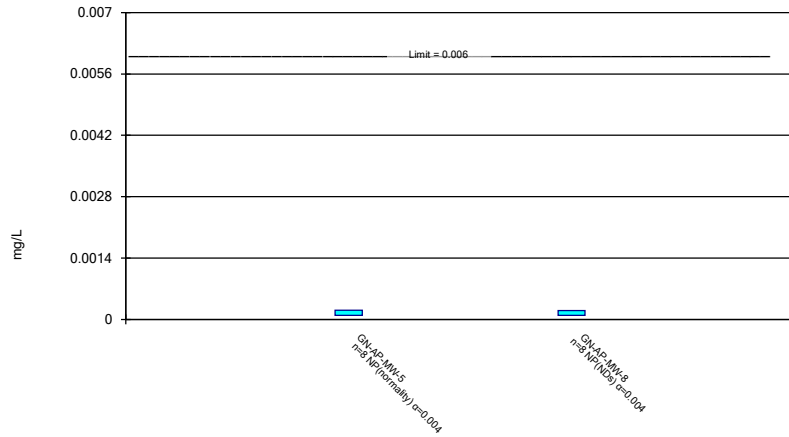
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

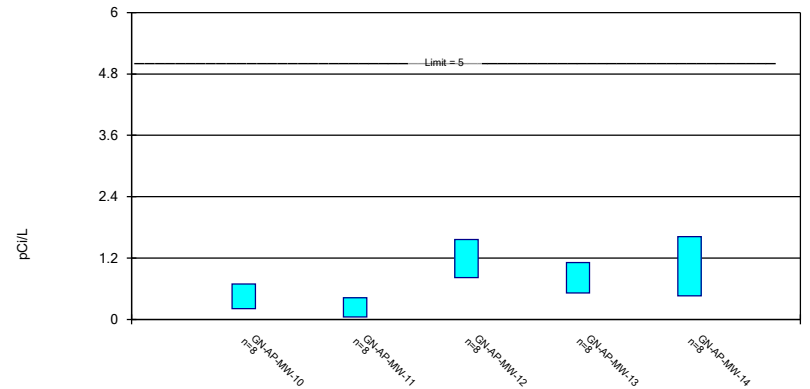
Compliance Limit is not exceeded.



Constituent: Cobalt Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

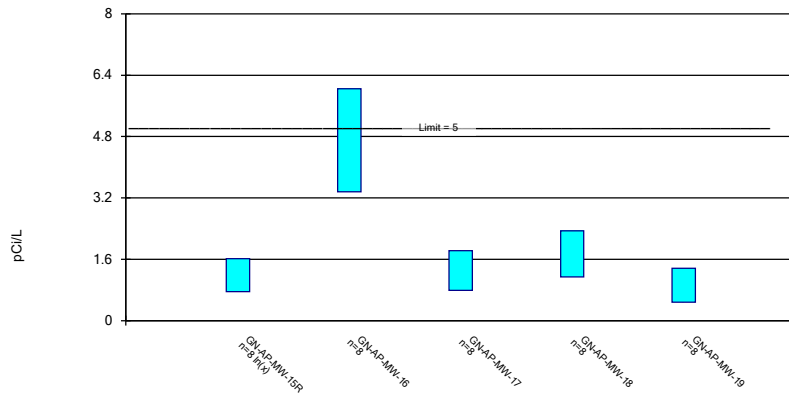
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confiden
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

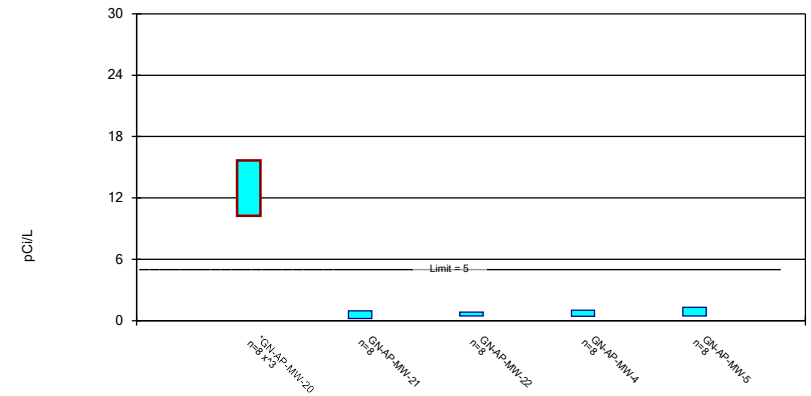
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confiden
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

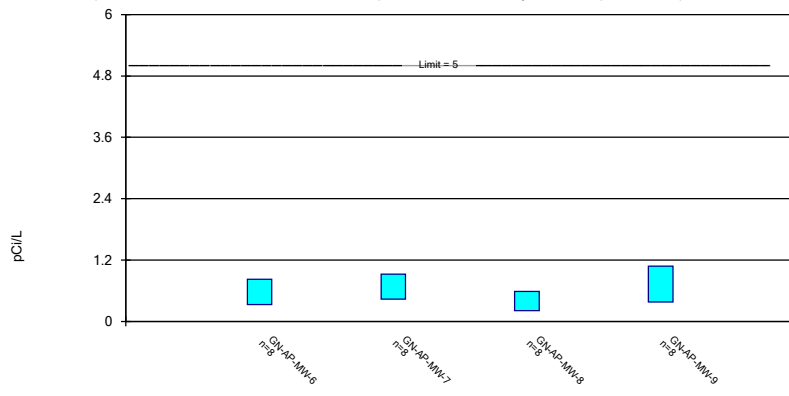
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confiden
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

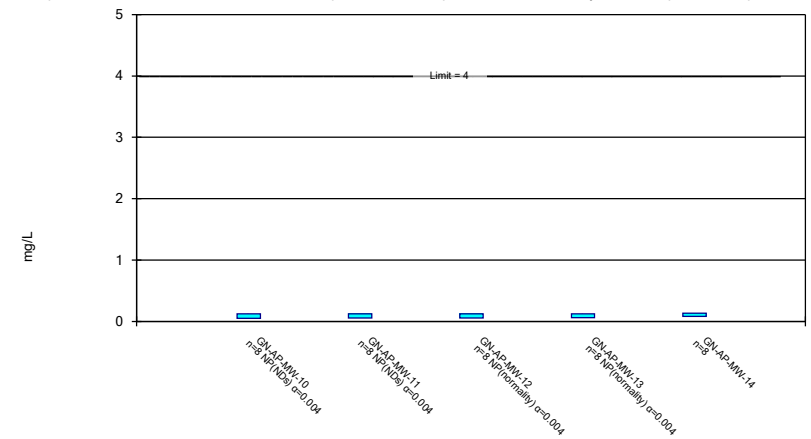
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confiden
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

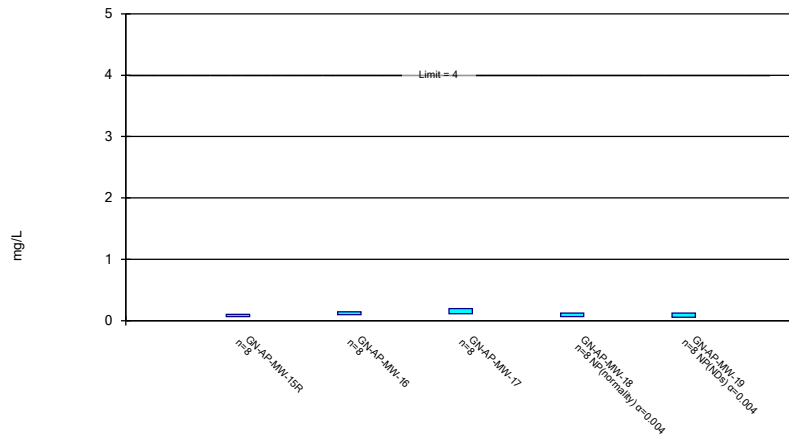
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

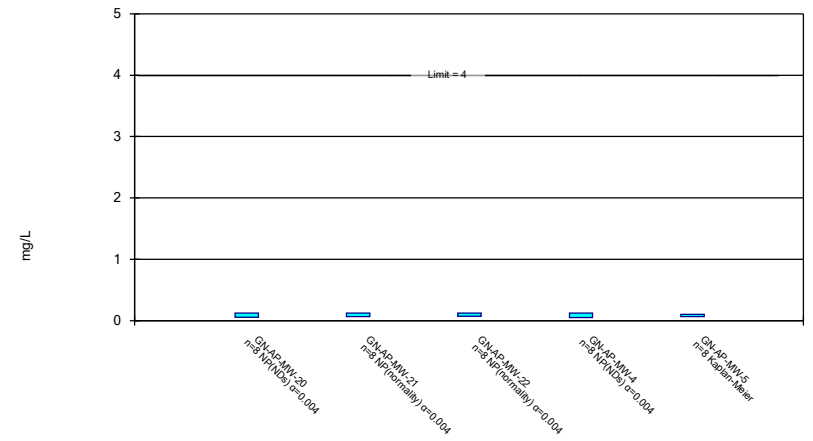
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

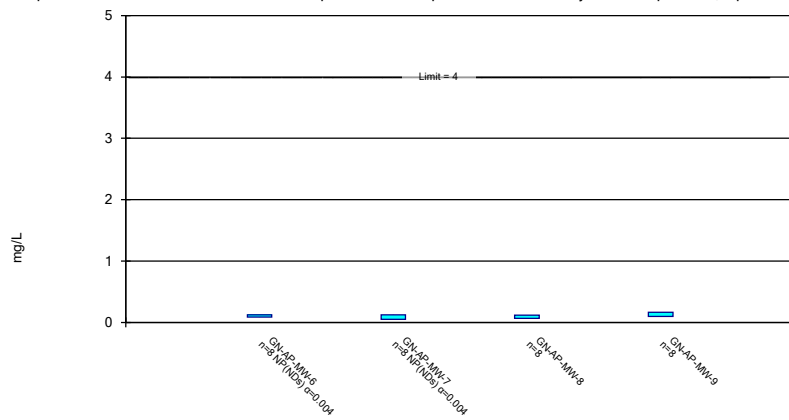
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

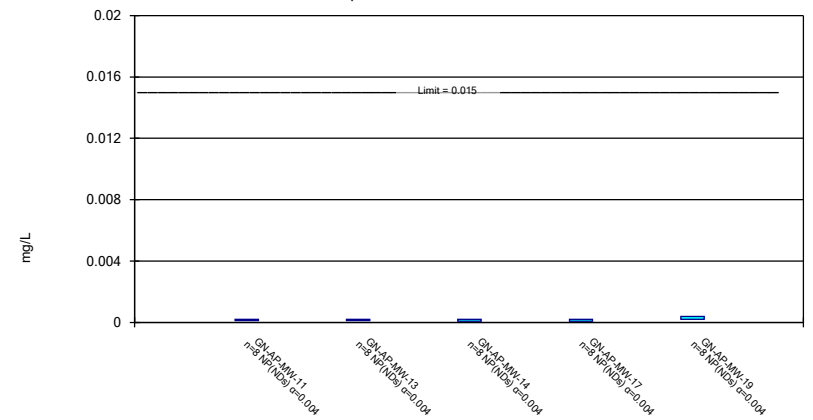
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

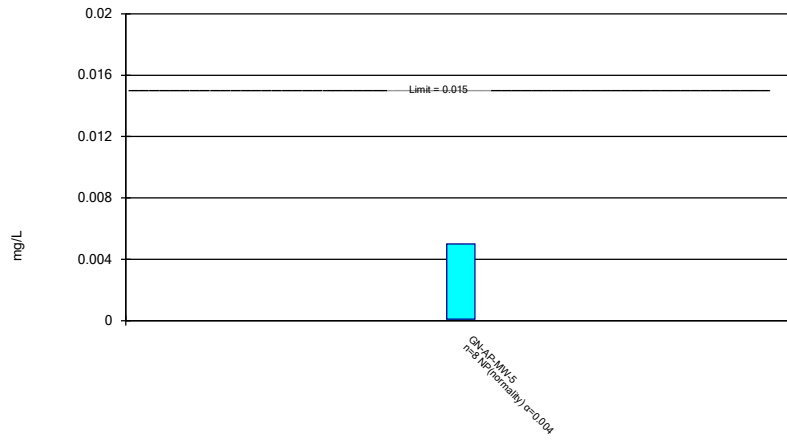
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

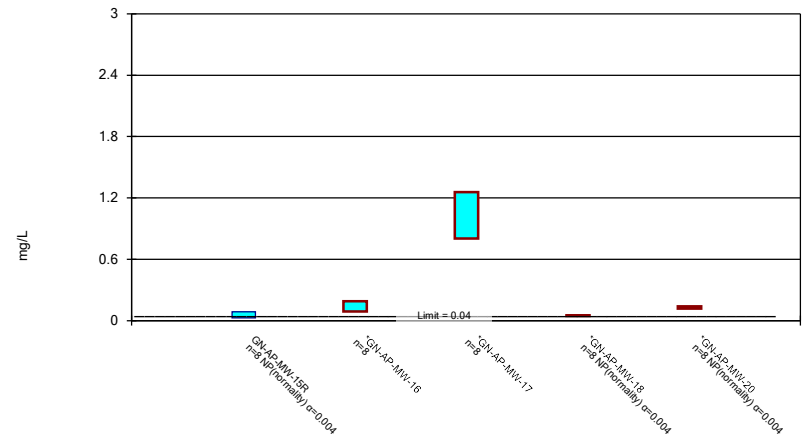
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

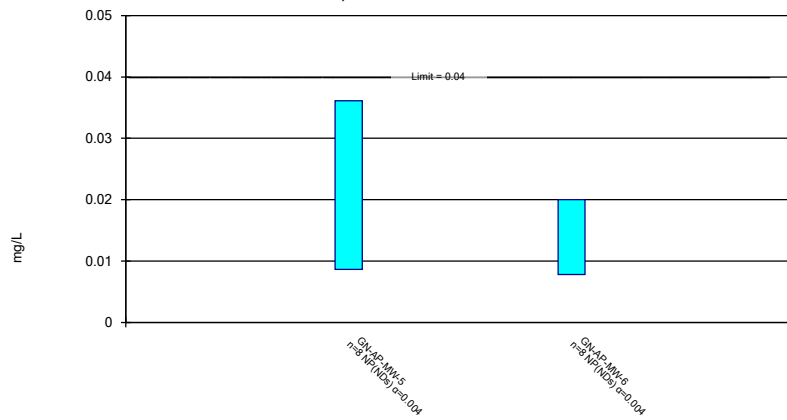
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

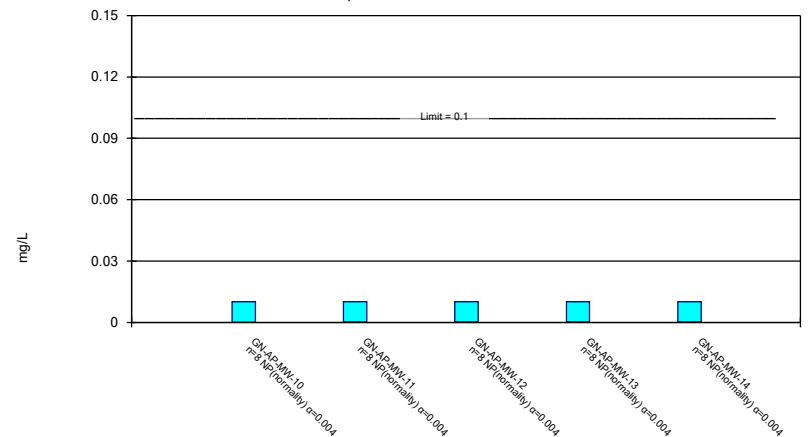
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

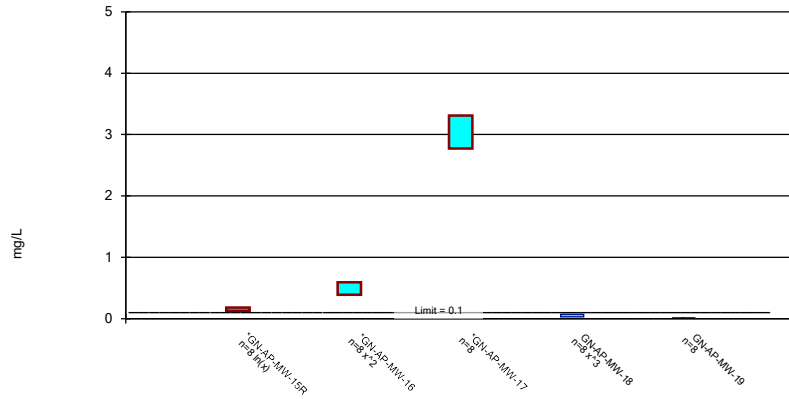
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric Confidence Interval

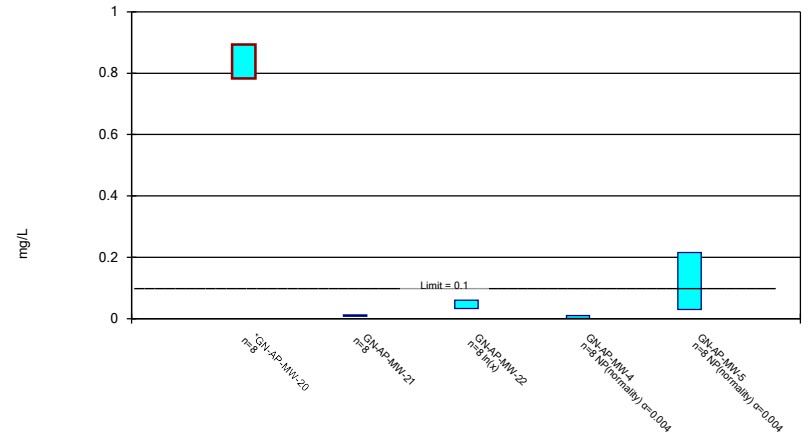
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

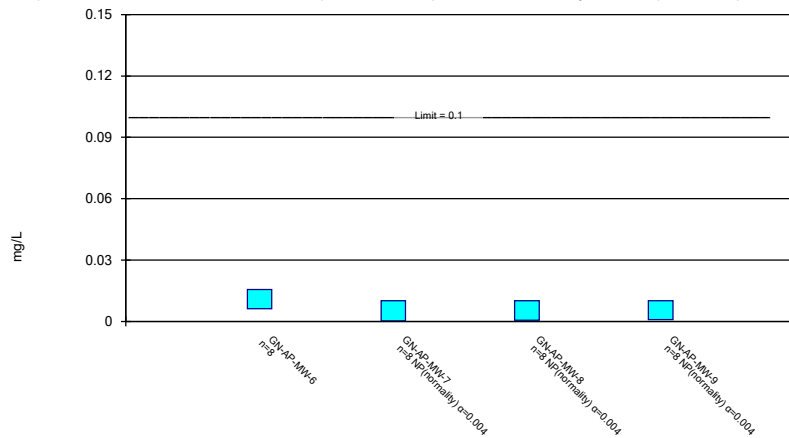
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

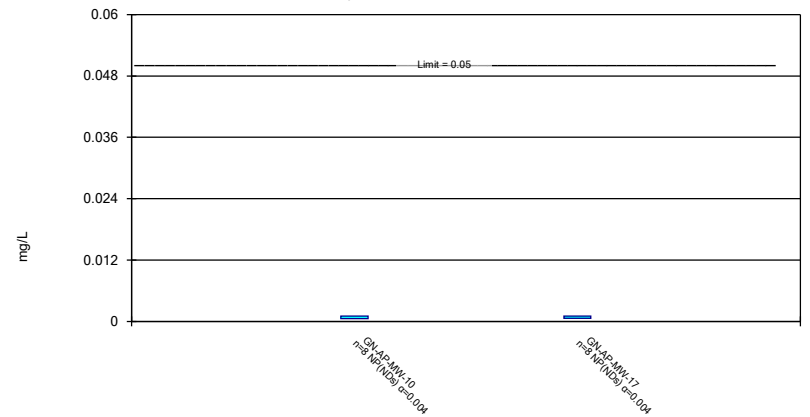
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Non-Parametric Confidence Interval

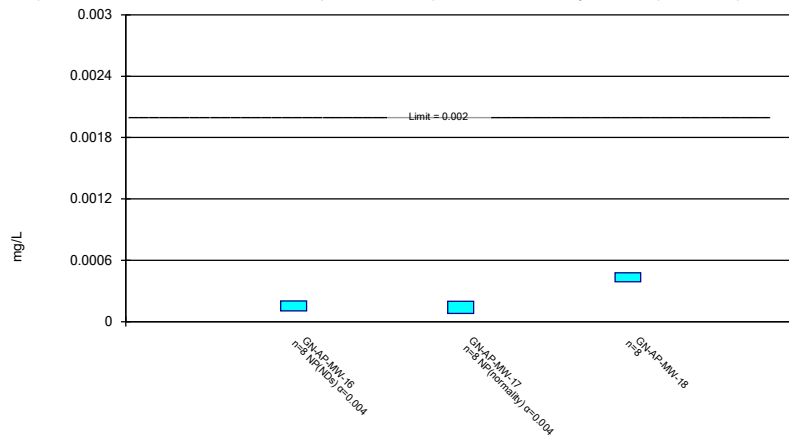
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
 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: Thallium Analysis Run 10/4/2023 8:22 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-14	GN-AP-MW-15R	GN-AP-MW-16
2/17/2020	<0.001015				
2/18/2020		<0.001015			
2/19/2020			<0.001015		
2/25/2020				<0.001015	<0.001015
7/22/2020	<0.001015				
7/23/2020			<0.001015		
7/27/2020		<0.001015			
7/28/2020				<0.001015	<0.001015
4/5/2021	<0.001015	<0.001015			<0.001015
4/6/2021			<0.001015	<0.001015	
9/21/2021	<0.001015				
9/22/2021		<0.001015	<0.001015		
9/28/2021				<0.001015	<0.001015
4/27/2022			<0.001015		<0.001015
5/2/2022	<0.001015			<0.001015	
5/3/2022		<0.001015			
8/30/2022					<0.001015
8/31/2022				<0.001015	
9/6/2022	<0.001015	<0.001015	<0.001015		
1/24/2023				<0.001015	
1/25/2023	0.00275				
1/30/2023					0.000516 (J)
1/31/2023			<0.001015		
2/6/2023		<0.001015			
7/18/2023		<0.001015			
7/19/2023					<0.001015
7/26/2023			<0.001015		
7/31/2023	0.00322				
8/1/2023				<0.001015	
Mean	0.001508	0.001015	0.001015	0.001015	0.0009526
Std. Dev.	0.0009205	0	0	0	0.0001764
Upper Lim.	0.00322	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.001015	0.001015	0.001015	0.001015	0.000516

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-17	GN-AP-MW-19	GN-AP-MW-20	GN-AP-MW-5	GN-AP-MW-6
2/18/2020		<0.001015			
2/25/2020			<0.001015		
2/26/2020	<0.001015			<0.00102	<0.001015
7/22/2020			<0.001015		
7/27/2020		<0.001015			
7/28/2020				<0.00102	<0.001015
7/29/2020	0.000845 (J)				
4/5/2021		<0.001015			
4/6/2021	0.000633 (J)				
4/7/2021				<0.00102	<0.001015
4/12/2021			<0.001015		
9/22/2021		<0.001015			
9/27/2021				<0.00102	<0.001015
9/28/2021			<0.001015		
9/29/2021	<0.001015				
4/19/2022		<0.001015			
4/20/2022	0.00068 (J)		<0.001015		
5/3/2022				<0.00102	<0.001015
8/30/2022	<0.001015	<0.001015	<0.001015	<0.00102	<0.001015
1/24/2023			0.00188		
1/25/2023		<0.001015			
1/30/2023	0.00191				
2/6/2023				<0.00102	<0.001015
7/18/2023		<0.001015			
7/25/2023	0.00137		0.000756 (J)		
7/26/2023					<0.001015
8/1/2023				0.00132	
Mean	0.00106	0.001015	0.001091	0.001057	0.001015
Std. Dev.	0.0004136	0	0.0003315	0.0001061	0
Upper Lim.	0.001403	0.001015	0.00188	0.00132	0.001015
Lower Lim.	0.0004956	0.001015	0.000756	0.00102	0.001015

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-7
2/26/2020	<0.001015
7/28/2020	<0.001015
4/7/2021	<0.001015
9/27/2021	<0.001015
5/3/2022	<0.001015
8/30/2022	<0.001015
1/25/2023	<0.001015
7/26/2023	<0.001015
Mean	0.001015
Std. Dev.	0
Upper Lim.	0.001015
Lower Lim.	0.001015

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020	<0.005	<0.005			
2/18/2020			0.00269 (J)		
2/19/2020				<0.005	<0.005
7/22/2020	<0.005	<0.005			
7/23/2020					<0.005
7/27/2020			0.0041 (J)	<0.005	
4/5/2021	0.000311	0.000237	0.00276		
4/6/2021				0.000661	0.000441
9/21/2021	0.00024	0.00017 (J)			
9/22/2021			0.00529	0.00052	0.00057
4/27/2022					0.00059
5/2/2022	0.00024	0.00018 (J)		0.00043	
5/3/2022			0.00223		
8/31/2022	0.000173 (J)				
9/6/2022		0.000164 (J)	0.0033		0.000568
9/7/2022				0.000532	
1/25/2023		0.000212			
1/31/2023					0.000621
2/1/2023				0.00063	
2/6/2023	0.000194 (J)		0.00233		
7/18/2023	0.0002 (J)		0.00299		
7/19/2023				0.000507	
7/26/2023					0.000657
7/31/2023		0.000149 (J)			
Mean	0.00142	0.001389	0.003211	0.00166	0.001681
Std. Dev.	0.00221	0.002229	0.001027	0.002063	0.00205
Upper Lim.	0.005	0.005	0.0043	0.005	0.005
Lower Lim.	0.000173	0.000149	0.002123	0.00043	0.000441

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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-19
2/18/2020					0.00196 (J)
2/25/2020	0.00129 (J)	0.00495 (J)		0.00265 (J)	
2/26/2020			0.011		
7/22/2020				0.00331 (J)	
7/27/2020					0.00221 (J)
7/28/2020	0.00101 (J)	0.00535			
7/29/2020			0.00947		
4/5/2021		0.00452			0.00228
4/6/2021	0.000767		0.00999	0.00272	
9/22/2021					0.00221
9/28/2021	0.00084	0.00593		0.00416	
9/29/2021			0.00941		
4/19/2022					0.00215
4/20/2022			0.0084		
4/26/2022				0.00281	
4/27/2022		0.00552			
5/2/2022	0.00058				
8/30/2022		0.00556	0.00745	0.00265	0.00258
8/31/2022	0.000483				
1/24/2023	0.000708			0.00255	
1/25/2023					0.00165
1/30/2023		0.00588	0.00753		
7/18/2023					0.00223
7/19/2023		0.00529			
7/25/2023			0.00747	0.00284	
8/1/2023	0.000497				
Mean	0.0007719	0.005375	0.00884	0.002961	0.002159
Std. Dev.	0.0002751	0.0004687	0.001332	0.0005368	0.0002675
Upper Lim.	0.001063	0.005872	0.01025	0.00416	0.002442
Lower Lim.	0.0004803	0.004878	0.007428	0.00255	0.001875

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-20	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5
2/18/2020				<0.005	
2/25/2020	0.0043 (J)				
2/26/2020		0.00116 (J)	<0.000203		<0.005
7/22/2020	0.00349 (J)				
7/27/2020				<0.005	
7/28/2020		0.00166 (J)	<0.000203		<0.005
4/5/2021				0.000142 (J)	
4/7/2021		0.00103	0.000184 (J)		0.000148 (J)
4/12/2021	0.00368				
9/27/2021		0.00103	0.00017 (J)	0.00018 (J)	0.00016 (J)
9/28/2021	0.00424				
4/20/2022	0.00405				
5/2/2022				0.00016 (J)	
5/3/2022		0.00141	0.00015 (J)		0.00015 (J)
8/30/2022	0.00359	0.00144	0.00018 (J)	0.000129 (J)	0.000217
1/24/2023	0.00399				
2/6/2023		0.000813	0.000115 (J)		0.00034
2/7/2023				0.000196 (J)	
7/25/2023	0.00424			0.000137 (J)	
7/26/2023		0.000427			
8/1/2023			<0.000203		0.000336
Mean	0.003948	0.001121	0.000176	0.001368	0.001419
Std. Dev.	0.0003199	0.000391	3.094E-05	0.002242	0.002212
Upper Lim.	0.004287	0.001536	0.0001866	0.005	0.005
Lower Lim.	0.003608	0.0007068	0.000133	0.000129	0.000148

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020				0.00246 (J)
2/25/2020			<0.005	
2/26/2020	<0.000203	<0.005		
7/28/2020	<0.000203	<0.005		
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)		
9/21/2021			0.0012	0.00308
9/27/2021	0.00014 (J)	0.00019 (J)		
5/2/2022			0.00107	0.00225
5/3/2022	0.00015 (J)	0.00016 (J)		
8/30/2022	0.000172 (J)	0.000101 (J)		
8/31/2022			0.00113	0.00274
1/25/2023		0.000136 (J)	0.000553	0.00295
2/6/2023	0.000114 (J)			
7/18/2023				0.00292
7/19/2023			0.000592	
7/26/2023	<0.000203	0.000154 (J)		
Mean	0.0001601	0.001367	0.001206	0.00262
Std. Dev.	4.22E-05	0.002243	0.0006114	0.0003435
Upper Lim.	0.0001628	0.005	0.001854	0.002984
Lower Lim.	0.0001058	0.000101	0.0005576	0.002256

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020	0.0127	0.0088 (J)			
2/18/2020			0.0726		
2/19/2020				0.0381	0.0653
7/22/2020	0.0141	0.0082 (J)			
7/23/2020					0.0686
7/27/2020			0.077	0.0395	
4/5/2021	0.0142	0.00832	0.0751		
4/6/2021				0.0389	0.0659
9/21/2021	0.0129	0.00893			
9/22/2021			0.0815	0.0444	0.0739
4/27/2022					0.0763
5/2/2022	0.0132	0.00954		0.0414	
5/3/2022			0.0752		
8/31/2022	0.0138				
9/6/2022		0.00885	0.0776		0.0835
9/7/2022				0.0422	
1/25/2023		0.00984			
1/31/2023					0.067
2/1/2023				0.0378	
2/6/2023	0.013		0.0741		
7/18/2023	0.0133		0.0727		
7/19/2023				0.0415	
7/26/2023					0.0572
7/31/2023		0.00987			
Mean	0.0134	0.009044	0.07573	0.04048	0.06971
Std. Dev.	0.0005657	0.0006446	0.002945	0.002284	0.00802
Upper Lim.	0.014	0.009727	0.07885	0.0429	0.07821
Lower Lim.	0.0128	0.008361	0.0726	0.03805	0.06121

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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-19
2/18/2020					0.0163
2/25/2020	0.0693	0.0353		0.0474	
2/26/2020			0.105		
7/22/2020				0.05	
7/27/2020					0.0165
7/28/2020	0.0635	0.0355			
7/29/2020			0.0978		
4/5/2021		0.0421			0.0149
4/6/2021	0.0541		0.119	0.0483	
9/22/2021					0.0162
9/28/2021	0.0615	0.051		0.0525	
9/29/2021			0.119		
4/19/2022					0.0141
4/20/2022			0.12		
4/26/2022				0.0515	
4/27/2022		0.0514			
5/2/2022	0.0561				
8/30/2022		0.0678	0.141	0.0573	0.0146
8/31/2022	0.0551				
1/24/2023	0.056			0.055	
1/25/2023					0.0134
1/30/2023		0.0894	0.123		
7/18/2023					0.0131
7/19/2023		0.113			
7/25/2023			0.119	0.0499	
8/1/2023	0.0525				
Mean	0.05851	0.06069	0.118	0.05149	0.01489
Std. Dev.	0.005727	0.02782	0.01275	0.003354	0.001332
Upper Lim.	0.06458	0.09017	0.1315	0.05504	0.0163
Lower Lim.	0.05244	0.0312	0.1045	0.04793	0.01348

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals
 Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-20	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5
2/18/2020				0.0185	
2/25/2020	0.0595				
2/26/2020		0.0339	0.0439		0.0231
7/22/2020	0.0612				
7/27/2020				0.0207	
7/28/2020		0.0223	0.0406		0.0332
4/5/2021				0.0151	
4/7/2021		0.0375	0.0352		0.027
4/12/2021	0.0589				
9/27/2021		0.0408	0.036	0.0155	0.0266
9/28/2021	0.0603				
4/20/2022	0.0554				
5/2/2022				0.0153	
5/3/2022		0.0497	0.0276		0.0219
8/30/2022	0.0537	0.0425	0.0284	0.0157	0.0234
1/24/2023	0.0532				
2/6/2023		0.0403	0.0256		0.0204
2/7/2023				0.0151	
7/25/2023	0.0543			0.0166	
7/26/2023		0.0349			
8/1/2023			0.0236		0.0216
Mean	0.05706	0.03774	0.03261	0.01656	0.02465
Std. Dev.	0.003241	0.007954	0.007394	0.002022	0.004163
Upper Lim.	0.0605	0.04617	0.04045	0.0207	0.02906
Lower Lim.	0.05363	0.02931	0.02478	0.0151	0.02024

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
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		
9/21/2021			0.0179	0.114
9/27/2021	0.0223	0.0218		
5/2/2022			0.0188	0.114
5/3/2022	0.0232	0.0191		
8/30/2022	0.0219	0.0188		
8/31/2022			0.018	0.114
1/25/2023		0.0203	0.0134	0.111
2/6/2023	0.02			
7/18/2023				0.107
7/19/2023			0.0123	
7/26/2023	0.0186	0.017		
Mean	0.02231	0.02155	0.01698	0.1098
Std. Dev.	0.002527	0.003292	0.00278	0.004132
Upper Lim.	0.02499	0.02504	0.01992	0.1141
Lower Lim.	0.01963	0.01806	0.01403	0.1054

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-20
2/25/2020	<0.000203		<0.0002
2/26/2020		<0.001	
7/22/2020			<0.0002
7/28/2020	<0.000203		
7/29/2020		<0.001	
4/5/2021	9.99E-05 (J)		
4/6/2021		0.000391	
4/12/2021			0.000123 (J)
9/28/2021	<0.000203		8E-05 (J)
9/29/2021		0.00034	
4/20/2022		0.00048	0.00013 (J)
4/27/2022	8E-05 (J)		
8/30/2022	<0.000203	0.000271	0.000104 (J)
1/24/2023			<0.0002
1/30/2023	<0.000203	0.000261	
7/19/2023	<0.000203		
7/25/2023		0.000347	8.2E-05 (J)
Mean	0.0001747	0.0005113	0.0001399
Std. Dev.	5.26E-05	0.0003093	5.271E-05
Upper Lim.	0.000203	0.001	0.0001257
Lower Lim.	8E-05	0.000261	8.224E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020	<0.01	<0.01			
2/18/2020			<0.001015		
2/19/2020				<0.00102	<0.001015
7/22/2020	<0.01	<0.01			
7/23/2020					<0.001015
7/27/2020			<0.001015	<0.00102	
4/5/2021	0.000275 (J)	0.000743 (J)	0.000278 (J)		
4/6/2021				0.000353 (J)	0.000234 (J)
9/21/2021	0.00025 (J)	0.00092 (J)			
9/22/2021			0.00039 (J)	0.00032 (J)	0.0003 (J)
4/27/2022					0.00025 (J)
5/2/2022	0.00026 (J)	0.00065 (J)		0.00027 (J)	
5/3/2022			<0.001015		
8/31/2022	0.000378 (J)				
9/6/2022		0.000929 (J)	0.000347 (J)		0.000289 (J)
9/7/2022				0.000286 (J)	
1/25/2023		0.00101 (J)			
1/31/2023					0.000209 (J)
2/1/2023				<0.00102	
2/6/2023	0.0003 (J)		0.000279 (J)		
7/18/2023	0.000335 (J)		<0.001015		
7/19/2023				0.000228 (J)	
7/26/2023					<0.001015
7/31/2023		0.000843 (J)			
Mean	0.002725	0.003137	0.0006693	0.0005646	0.0005409
Std. Dev.	0.004491	0.004238	0.0003714	0.0003788	0.0003937
Upper Lim.	0.01	0.01	0.001015	0.00102	0.001015
Lower Lim.	0.00025	0.00065	0.000278	0.000228	0.000209

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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-19
2/18/2020					<0.00102
2/25/2020	<0.00102	<0.001015		<0.00102	
2/26/2020			<0.00102		
7/22/2020				<0.00102	
7/27/2020					<0.00102
7/28/2020	<0.00102	<0.001015			
7/29/2020			<0.00102		
4/5/2021		0.000319 (J)			0.000316 (J)
4/6/2021	0.000777 (J)		0.000347 (J)	0.000334 (J)	
9/22/2021					0.00024 (J)
9/28/2021	0.00031 (J)	0.00032 (J)		0.00029 (J)	
9/29/2021			0.00028 (J)		
4/19/2022					0.0003 (J)
4/20/2022			0.00037 (J)		
4/26/2022				0.00024 (J)	
4/27/2022		0.00021 (J)			
5/2/2022	0.00027 (J)				
8/30/2022		<0.001015	<0.00102	<0.00102	<0.00102
8/31/2022	0.000323 (J)				
1/24/2023	<0.00102			<0.00102	
1/25/2023					<0.00102
1/30/2023		0.000272 (J)	<0.00102		
7/18/2023					0.0012
7/19/2023		0.00031 (J)			
7/25/2023			0.000225 (J)	0.000351 (J)	
8/1/2023	0.000237 (J)				
Mean	0.0006221	0.0005595	0.0006627	0.0006619	0.000767
Std. Dev.	0.00037	0.0003789	0.0003843	0.0003842	0.000404
Upper Lim.	0.00102	0.001015	0.00102	0.00102	0.0012
Lower Lim.	0.000237	0.00021	0.000225	0.00024	0.00024

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-20	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5
2/18/2020				<0.01	
2/25/2020	<0.00102				
2/26/2020		<0.001015	<0.001015		<0.01
7/22/2020	<0.00102				
7/27/2020				<0.01	
7/28/2020		<0.001015	<0.001015		<0.01
4/5/2021				0.000909 (J)	
4/7/2021		0.00032 (J)	0.000307 (J)		0.000278 (J)
4/12/2021	0.00038 (J)				
9/27/2021		0.00037 (J)	0.00031 (J)	0.00082 (J)	0.00036 (J)
9/28/2021	0.00029 (J)				
4/20/2022	0.00186				
5/2/2022				0.00074 (J)	
5/3/2022		<0.001015	0.00026 (J)		0.00033 (J)
8/30/2022	<0.00102	<0.001015	<0.001015	0.00055 (J)	0.000268 (J)
1/24/2023	<0.00102				
2/6/2023		<0.001015	0.000237 (J)		0.000449 (J)
2/7/2023				0.000692 (J)	
7/25/2023	0.000418 (J)			0.000835 (J)	
7/26/2023		<0.001015			
8/1/2023			0.000247 (J)		0.000416 (J)
Mean	0.0008785	0.0008475	0.0005508	0.003068	0.002763
Std. Dev.	0.0005141	0.0003104	0.0003853	0.00428	0.004467
Upper Lim.	0.001077	0.001015	0.001015	0.01	0.01
Lower Lim.	2.226E-05	0.00032	0.000237	0.00055	0.000268

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020				<0.001015
2/25/2020			<0.00102	
2/26/2020	<0.001015	<0.00102		
7/28/2020	<0.001015	<0.00102		
7/29/2020			<0.00102	<0.001015
4/5/2021				0.000295 (J)
4/6/2021			0.000333 (J)	
4/7/2021	0.000259 (J)	0.000506 (J)		
9/21/2021			0.00031 (J)	0.00032 (J)
9/27/2021	0.00035 (J)	0.00037 (J)		
5/2/2022			0.00031 (J)	0.00029 (J)
5/3/2022	0.0003 (J)	0.00035 (J)		
8/30/2022	<0.001015	<0.00102		
8/31/2022			0.000367 (J)	0.000286 (J)
1/25/2023		<0.00102	<0.00102	<0.001015
2/6/2023	<0.001015			
7/18/2023				<0.001015
7/19/2023			0.000259 (J)	
7/26/2023	<0.001015	0.000234 (J)		
Mean	0.000748	0.0006925	0.0005799	0.0006564
Std. Dev.	0.0003693	0.0003576	0.0003657	0.0003835
Upper Lim.	0.001015	0.00102	0.00102	0.001015
Lower Lim.	0.000259	0.000234	0.000259	0.000286

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-11	GN-AP-MW-12	GN-AP-MW-13	GN-AP-MW-15R	GN-AP-MW-16
2/17/2020	<0.000203				
2/18/2020		<0.005			
2/19/2020			<0.0002		
2/25/2020				<0.005	<0.005
7/22/2020	<0.000203				
7/27/2020		<0.005	<0.0002		
7/28/2020				<0.005	<0.005
4/5/2021	<0.000203	0.000113 (J)			0.000679
4/6/2021			0.000142 (J)	0.000352	
9/21/2021	<0.000203				
9/22/2021		0.00016 (J)	<0.0002		
9/28/2021				0.0004	0.00095
4/27/2022					0.0007
5/2/2022	<0.000203		0.00014 (J)	0.00027	
5/3/2022		0.00022			
8/30/2022					0.000978
8/31/2022				0.000193 (J)	
9/6/2022	<0.000203	0.00019 (J)			
9/7/2022			9.4E-05 (J)		
1/24/2023				0.000344	
1/25/2023	7.5E-05 (J)				
1/30/2023					0.00119
2/1/2023			0.000152 (J)		
2/6/2023		0.000225			
7/18/2023		0.000209			
7/19/2023			0.000144 (J)		0.00159
7/31/2023	<0.000203				
8/1/2023				0.000213	
Mean	0.000187	0.00139	0.000159	0.001471	0.002011
Std. Dev.	4.525E-05	0.002229	3.816E-05	0.002179	0.001867
Upper Lim.	0.000203	0.005	0.0001562	0.005	0.005
Lower Lim.	7.5E-05	0.000113	0.0001126	0.000193	0.000679

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-5	GN-AP-MW-8
2/25/2020		<0.000203
2/26/2020	<0.0002	
7/28/2020	<0.0002	
7/29/2020		<0.000203
4/6/2021		9.45E-05 (J)
4/7/2021	9.62E-05 (J)	
9/21/2021		<0.000203
9/27/2021	<0.0002	
5/2/2022		<0.000203
5/3/2022	9E-05 (J)	
8/30/2022	0.000112 (J)	
8/31/2022		<0.000203
1/25/2023		<0.000203
2/6/2023	0.000209	
7/19/2023		<0.000203
8/1/2023	0.000152 (J)	
Mean	0.0001574	0.0001894
Std. Dev.	5.139E-05	3.836E-05
Upper Lim.	0.000209	0.000203
Lower Lim.	9E-05	9.45E-05

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020	0.379 (U)	0.568			
2/18/2020			1.34		
2/19/2020				0.702	0.404 (U)
7/22/2020	0.185 (U)	0.24 (U)			
7/23/2020					1.48
7/27/2020			1.85	0.986	
4/5/2021	0.579 (U)	0.13 (U)	1.2		
4/6/2021				0.66 (U)	0.875 (U)
9/21/2021	0.802 (U)	0.0771 (U)			
9/22/2021			1.4	0.834 (U)	0.44 (U)
4/27/2022					0.753 (U)
5/2/2022	0.349 (U)	0.355 (U)		0.412 (U)	
5/3/2022			1.09 (U)		
8/31/2022	0.73 (U)				
9/6/2022		0.101 (U)	0.847 (U)		1.92
9/7/2022				0.895 (U)	
1/25/2023		0.0749 (U)			
1/31/2023					0.93
2/1/2023				0.682 (U)	
2/6/2023	0.256 (U)		1.06		
7/18/2023	0.312 (U)		0.73 (U)		
7/19/2023				1.36	
7/26/2023					1.51
7/31/2023		0.339 (U)			
Mean	0.449	0.2356	1.19	0.8164	1.039
Std. Dev.	0.2271	0.1755	0.3502	0.2803	0.5445
Upper Lim.	0.6897	0.4217	1.561	1.113	1.616
Lower Lim.	0.2083	0.04958	0.8184	0.5193	0.4619

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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-19
2/18/2020					0.779
2/25/2020	0.669	2.99		1.13	
2/26/2020			1.35		
7/22/2020				2.35	
7/27/2020					1.68
7/28/2020	2.35	3.49			
7/29/2020			1.85		
4/5/2021		4.28			0.959 (U)
4/6/2021	1.2		0.689 (U)	1.68	
9/22/2021					0.368 (U)
9/28/2021	1.04 (U)	4.67		1.94	
9/29/2021			1.18		
4/19/2022					0.66 (U)
4/20/2022			1.12 (U)		
4/26/2022				1.34	
4/27/2022		4.33			
5/2/2022	1.14 (U)				
8/30/2022		4.95	1.14	1.46	1
8/31/2022	0.868 (U)				
1/24/2023	0.984			1.28	
1/25/2023					0.626 (U)
1/30/2023		6.1	0.926 (U)		
7/18/2023					1.32
7/19/2023		6.83			
7/25/2023			2.19	2.75	
8/1/2023	1.13 (U)				
Mean	1.173	4.705	1.306	1.741	0.924
Std. Dev.	0.5056	1.268	0.4903	0.5679	0.4182
Upper Lim.	1.612	6.049	1.825	2.343	1.367
Lower Lim.	0.7521	3.361	0.786	1.139	0.4808

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-20	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5
2/18/2020				0.231 (U)	
2/25/2020	12.9				
2/26/2020		0.032 (U)	0.693		0.661
7/22/2020	15.6				
7/27/2020				0.97 (U)	
7/28/2020		0.275 (U)	0.41 (U)		0.907 (U)
4/5/2021				0.474 (U)	
4/7/2021		1.12 (U)	0.365 (U)		1.4
4/12/2021	15.6				
9/27/2021		0.815 (U)	0.892 (U)	0.745 (U)	1.34
9/28/2021	15.4				
4/20/2022	1.49				
5/2/2022				0.658 (U)	
5/3/2022		0.435 (U)	0.617 (U)		0.958 (U)
8/30/2022	12.7	0.697 (U)	0.759 (U)	1.11	0.775 (U)
1/24/2023	11.9				
2/6/2023		0.38 (U)	0.582 (U)		0.147 (U)
2/7/2023				0.885 (U)	
7/25/2023	13.7			0.632 (U)	
7/26/2023		0.841 (U)			
8/1/2023			0.711 (U)		0.856 (U)
Mean	12.41	0.5744	0.6286	0.7131	0.8805
Std. Dev.	4.641	0.3551	0.176	0.2811	0.3938
Upper Lim.	15.67	0.9508	0.8152	1.011	1.298
Lower Lim.	10.26	0.198	0.442	0.4151	0.4631

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
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)		
9/21/2021			0.0496 (U)	1.05 (U)
9/27/2021	0.314 (U)	0.319 (U)		
5/2/2022			0.465 (U)	0.891
5/3/2022	0.478 (U)	0.596 (U)		
8/30/2022	0.856 (U)	0.842 (U)		
8/31/2022			0.41 (U)	0.741 (U)
1/25/2023		0.658 (U)	0.309 (U)	0.441 (U)
2/6/2023	0.683 (U)			
7/18/2023				1.2
7/19/2023			0.661 (U)	
7/26/2023	0.843 (U)	1.1 (U)		
Mean	0.5749	0.6778	0.3981	0.7283
Std. Dev.	0.2344	0.231	0.178	0.3318
Upper Lim.	0.8233	0.9226	0.5868	1.08
Lower Lim.	0.3264	0.4329	0.2094	0.3766

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020	0.051 (J)	0.0546 (J)			
2/18/2020			0.0571 (J)		
2/19/2020				0.06 (J)	0.122
7/22/2020	<0.125	<0.125			
7/23/2020					0.0954 (J)
7/27/2020			<0.125	<0.125	
4/5/2021	0.0627 (J)	0.0634 (J)	0.0733 (J)		
4/6/2021				0.0794 (J)	0.124
9/21/2021	0.0847 (J)	0.0847 (J)			
9/22/2021			0.0887 (J)	0.117	0.149
4/27/2022					0.0652 (J)
5/2/2022	<0.125	<0.125		<0.125	
5/3/2022			<0.125		
8/31/2022	<0.125				
9/6/2022		<0.125	<0.125		0.0891 (J)
9/7/2022				<0.125	
1/25/2023		<0.125			
1/31/2023					0.106 (J)
2/1/2023				0.0758 (J)	
2/6/2023	<0.125		0.0753 (J)		
7/18/2023	<0.125		<0.125		
7/19/2023				0.0611 (J)	
7/26/2023					0.104 (J)
7/31/2023		<0.125			
Mean	0.1029	0.1035	0.0993	0.09604	0.1068
Std. Dev.	0.03181	0.03085	0.02875	0.02967	0.02533
Upper Lim.	0.125	0.125	0.125	0.125	0.1337
Lower Lim.	0.051	0.0546	0.0571	0.06	0.07999

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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-19
2/18/2020					0.0557 (J)
2/25/2020	0.0995 (J)	0.133		0.0701 (J)	
2/26/2020			0.189		
7/22/2020				0.0628 (J)	
7/27/2020					<0.125
7/28/2020	0.0738 (J)	0.124			
7/29/2020			0.185		
4/5/2021		0.159			0.088 (J)
4/6/2021	0.116		0.179	<0.125	
9/22/2021					0.0965 (J)
9/28/2021	0.09 (J)	0.125		0.0839 (J)	
9/29/2021			0.211		
4/19/2022					<0.125
4/20/2022			0.128		
4/26/2022				<0.125	
4/27/2022		0.0766 (J)			
5/2/2022	0.08 (J)				
8/30/2022		0.114 (J)	0.115 (J)	<0.125	<0.125
8/31/2022	0.0842 (J)				
1/24/2023	0.0768 (J)			<0.125	
1/25/2023					<0.125
1/30/2023		0.117 (J)	0.123 (J)		
7/18/2023					<0.125
7/19/2023		0.111 (J)			
7/25/2023			0.102 (J)	0.0686 (J)	
8/1/2023	0.0627 (J)				
Mean	0.08538	0.12	0.154	0.09818	0.1082
Std. Dev.	0.01652	0.02312	0.04127	0.02927	0.02595
Upper Lim.	0.1029	0.1445	0.1977	0.125	0.125
Lower Lim.	0.06786	0.09545	0.1103	0.0628	0.0557

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-20	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5
2/18/2020				0.0506 (J)	
2/25/2020	0.0566 (J)				
2/26/2020		0.0804 (J)	0.0687 (J)		0.0647 (J)
7/22/2020	<0.125				
7/27/2020				<0.125	
7/28/2020		<0.125	<0.125		<0.125
4/5/2021				0.0842 (J)	
4/7/2021		0.0739 (J)	0.0834 (J)		0.0874 (J)
4/12/2021	0.0644 (J)				
9/27/2021		0.0914 (J)	0.1	0.0702 (J)	0.0989 (J)
9/28/2021	0.0828 (J)				
4/20/2022	<0.125				
5/2/2022				<0.125	
5/3/2022		<0.125	0.0819 (J)		0.0648 (J)
8/30/2022	<0.125	<0.125	<0.125	<0.125	<0.125
1/24/2023	<0.125				
2/6/2023		0.0676 (J)	0.0686 (J)		0.0991 (J)
2/7/2023				<0.125	
7/25/2023	<0.125			<0.125	
7/26/2023		<0.125			
8/1/2023			<0.125		<0.125
Mean	0.1036	0.1017	0.0972	0.1038	0.09874
Std. Dev.	0.0304	0.02582	0.02502	0.03068	0.02538
Upper Lim.	0.125	0.125	0.125	0.125	0.09938
Lower Lim.	0.0566	0.0676	0.0686	0.0506	0.06658

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals
 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
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)		
9/21/2021			0.132	0.181
9/27/2021	0.0862 (J)	0.0882 (J)		
5/2/2022			0.111 (J)	0.122 (J)
5/3/2022	<0.125	<0.125		
8/30/2022	<0.125	<0.125		
8/31/2022			<0.125	0.089 (J)
1/25/2023		<0.125	0.0614 (J)	0.101 (J)
2/6/2023	<0.125			
7/18/2023				0.134
7/19/2023			0.0855 (J)	
7/26/2023	<0.125	<0.125		
Mean	0.1154	0.1045	0.0913	0.1304
Std. Dev.	0.01773	0.02988	0.02567	0.02976
Upper Lim.	0.125	0.125	0.1185	0.1619
Lower Lim.	0.0862	0.0523	0.06409	0.09884

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-11	GN-AP-MW-13	GN-AP-MW-14	GN-AP-MW-17	GN-AP-MW-19
2/17/2020	<0.000203				
2/18/2020					<0.0002
2/19/2020		<0.000203	<0.0002		
2/26/2020				<0.000203	
7/22/2020	<0.000203				
7/23/2020			<0.0002		
7/27/2020		<0.000203			<0.0002
7/29/2020				<0.000203	
4/5/2021	<0.000203				<0.0002
4/6/2021		0.000106 (J)	<0.0002	<0.000203	
9/21/2021	<0.000203				
9/22/2021		<0.000203	<0.0002		<0.0002
9/29/2021				<0.000203	
4/19/2022					0.00019 (J)
4/20/2022				<0.000203	
4/27/2022			<0.0002		
5/2/2022	<0.000203	<0.000203			
8/30/2022				<0.000203	<0.0002
9/6/2022	<0.000203		<0.0002		
9/7/2022		<0.000203			
1/25/2023	0.000107 (J)				<0.0002
1/30/2023				7E-05 (J)	
1/31/2023			<0.0002		
2/1/2023		<0.000203			
7/18/2023					0.000391
7/19/2023		<0.000203			
7/25/2023				<0.000203	
7/26/2023			6.9E-05 (J)		
7/31/2023	<0.000203				
Mean	0.000191	0.0001909	0.0001836	0.0001864	0.0002226
Std. Dev.	3.394E-05	3.429E-05	4.632E-05	4.702E-05	6.812E-05
Upper Lim.	0.000203	0.000203	0.0002	0.000203	0.000391
Lower Lim.	0.000107	0.000106	6.9E-05	7E-05	0.00019

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-5
2/26/2020	<0.005
7/28/2020	<0.005
4/7/2021	0.00014 (J)
9/27/2021	0.0001 (J)
5/3/2022	0.0001 (J)
8/30/2022	0.00013 (J)
2/6/2023	0.000353
8/1/2023	0.00023
Mean	0.001382
Std. Dev.	0.002235
Upper Lim.	0.005
Lower Lim.	0.0001

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/25/2020	0.0848	0.0951		0.0465	0.137
2/26/2020			0.752		
7/22/2020				0.0507	0.125
7/28/2020	0.0559	0.0903			
7/29/2020			0.731		
4/5/2021		0.111			
4/6/2021	0.0423		1.01	0.05	
4/12/2021					0.139
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				
8/30/2022		0.143	1.09	0.0456	0.117
8/31/2022	0.026				
1/24/2023	0.0258			0.0457	0.138
1/30/2023		0.198	1.33		
7/19/2023		0.22			
7/25/2023			1.28	0.0463	0.134
8/1/2023	0.0265				
Mean	0.04021	0.1388	1.03	0.04773	0.1308
Std. Dev.	0.02087	0.04699	0.2149	0.002274	0.00902
Upper Lim.	0.0848	0.1886	1.258	0.0507	0.139
Lower Lim.	0.0258	0.089	0.8026	0.0456	0.117

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-5	GN-AP-MW-6
2/26/2020	<0.02	<0.02
7/28/2020	0.0361	<0.02
4/7/2021	0.01 (J)	<0.02
9/27/2021	0.00862 (J)	<0.02
5/3/2022	<0.02	0.0178 (J)
8/30/2022	<0.02	0.00779 (J)
2/6/2023	<0.02	<0.02
7/26/2023		<0.02
8/1/2023	<0.02	
Mean	0.01934	0.0182
Std. Dev.	0.008326	0.004276
Upper Lim.	0.0361	0.02
Lower Lim.	0.00862	0.00779

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020	<0.01015	<0.01015			
2/18/2020			<0.01015		
2/19/2020				<0.01015	<0.01015
7/22/2020	<0.01015	<0.01015			
7/23/2020					<0.01015
7/27/2020			<0.01015	<0.01015	
4/5/2021	0.000248	0.00033	0.000366		
4/6/2021				0.000329	0.000298
9/21/2021	0.00018 (J)	0.00026			
9/22/2021			0.0003	0.00031	0.00052
4/27/2022					0.00052
5/2/2022	0.00021	0.00038		0.0003	
5/3/2022			0.00033		
8/31/2022	0.000158 (J)				
9/6/2022		0.000269	0.000272		0.000701
9/7/2022				0.000315	
1/25/2023		0.000291			
1/31/2023					0.000984
2/1/2023				0.000341	
2/6/2023	0.000249		0.000316		
7/18/2023	<0.01015		<0.01015		
7/19/2023				<0.01015	
7/26/2023					<0.01015
7/31/2023		<0.01015			
Mean	0.003937	0.003998	0.004004	0.004006	0.004184
Std. Dev.	0.005145	0.005095	0.005089	0.005088	0.004944
Upper Lim.	0.01015	0.01015	0.01015	0.01015	0.01015
Lower Lim.	0.000158	0.00026	0.000272	0.0003	0.000298

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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-19
2/18/2020					0.0129
2/25/2020	0.209	0.343		0.0228	
2/26/2020			2.83		
7/22/2020				0.0244	
7/27/2020					0.0133
7/28/2020	0.167	0.328			
7/29/2020			2.79		
4/5/2021		0.514			0.0137
4/6/2021	0.156		3.56	0.0307	
9/22/2021					0.0136
9/28/2021	0.137	0.538		0.0592	
9/29/2021			3.23		
4/19/2022					0.0146
4/20/2022			2.99		
4/26/2022				0.0598	
4/27/2022		0.519			
5/2/2022	0.144				
8/30/2022		0.529	2.84	0.069	0.0144
8/31/2022	0.138				
1/24/2023	0.143			0.071	
1/25/2023					0.0154
1/30/2023		0.556	3.06		
7/18/2023					0.014
7/19/2023		0.619			
7/25/2023			3.03	0.0724	
8/1/2023	0.129				
Mean	0.1529	0.4933	3.041	0.05116	0.01399
Std. Dev.	0.02558	0.1028	0.2553	0.02152	0.0007954
Upper Lim.	0.1779	0.5935	3.312	0.07109	0.01483
Lower Lim.	0.1285	0.3909	2.771	0.02977	0.01314

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-20	GN-AP-MW-21	GN-AP-MW-22	GN-AP-MW-4	GN-AP-MW-5
2/18/2020				<0.01015	
2/25/2020	0.813				
2/26/2020		0.0139	0.0691		0.0546
7/22/2020	0.784				
7/27/2020				<0.01015	
7/28/2020		0.00969 (J)	0.0677		0.215
4/5/2021				0.000137 (J)	
4/7/2021		0.00838	0.0456		0.0562
4/12/2021	0.811				
9/27/2021		0.00769	0.0388	0.00026	0.0541
9/28/2021	0.845				
4/20/2022	0.84				
5/2/2022				0.0003	
5/3/2022		0.0116	0.0342		0.0389
8/30/2022	0.785	0.0101	0.0418	0.000242	0.0384
1/24/2023	0.915				
2/6/2023		0.012	0.0331		0.0299
2/7/2023				0.000994	
7/25/2023	0.915			<0.01015	
7/26/2023		0.00956 (J)			
8/1/2023			0.0424		0.0335
Mean	0.8385	0.01037	0.04659	0.004048	0.06508
Std. Dev.	0.05208	0.002034	0.01409	0.00506	0.06143
Upper Lim.	0.8937	0.01252	0.0605	0.01015	0.215
Lower Lim.	0.7833	0.008209	0.03337	0.000137	0.0299

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

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
2/17/2020				<0.01015
2/25/2020			<0.01015	
2/26/2020	0.0157	<0.01015		
7/28/2020	0.0185	<0.01015		
7/29/2020			<0.01015	<0.01015
4/5/2021				0.000821
4/6/2021			0.000895	
4/7/2021	0.0119	0.00021		
9/21/2021			0.00072	0.00102
9/27/2021	0.0118	0.00026		
5/2/2022			0.00107	0.0012
5/3/2022	0.00912	0.00024		
8/30/2022	0.00761	0.000281		
8/31/2022			0.000733	0.00128
1/25/2023		0.000484	0.000577	0.00114
2/6/2023	0.00638			
7/18/2023				<0.01015
7/19/2023			<0.01015	
7/26/2023	0.00616 (J)	<0.01015		
Mean	0.0109	0.003991	0.004306	0.004489
Std. Dev.	0.004464	0.005101	0.004842	0.00469
Upper Lim.	0.01563	0.01015	0.01015	0.01015
Lower Lim.	0.006165	0.00021	0.000577	0.000821

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals

Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-10	GN-AP-MW-17
2/17/2020	<0.00102	
2/26/2020		<0.001015
7/22/2020	<0.00102	
7/29/2020		<0.001015
4/5/2021	<0.00102	
4/6/2021		<0.001015
9/21/2021	<0.00102	
9/29/2021		<0.001015
4/20/2022		<0.001015
5/2/2022	0.00055 (J)	
8/30/2022		<0.001015
8/31/2022	0.000532 (J)	
1/30/2023		0.00059 (J)
2/6/2023	<0.00102	
7/18/2023	0.000557 (J)	
7/25/2023		<0.001015
Mean	0.0008424	0.0009619
Std. Dev.	0.0002452	0.0001503
Upper Lim.	0.00102	0.001015
Lower Lim.	0.000532	0.00059

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/4/2023 8:27 PM View: Appendix IV - Confidence Intervals
Plant Gaston Client: Southern Company Data: Gaston Ash Pond

	GN-AP-MW-16	GN-AP-MW-17	GN-AP-MW-18
2/25/2020	<0.000203		0.000426 (J)
2/26/2020		<0.0002	
7/22/2020			0.000456 (J)
7/28/2020	<0.000203		
7/29/2020		<0.0002	
4/5/2021	<0.000203		
4/6/2021		<0.0002	0.000389
9/28/2021	<0.000203		0.00036
9/29/2021		<0.0002	
4/20/2022		8E-05 (J)	
4/26/2022			0.00044
4/27/2022	<0.000203		
8/30/2022	<0.000203	9.1E-05 (J)	0.000487
1/24/2023			0.000472
1/30/2023	0.000105 (J)	0.000116 (J)	
7/19/2023	<0.000203		
7/25/2023		0.000105 (J)	0.000436
Mean	0.0001908	0.000149	0.0004333
Std. Dev.	3.465E-05	5.549E-05	4.198E-05
Upper Lim.	0.000203	0.0002	0.0004777
Lower Lim.	0.000105	8E-05	0.0003888

FIGURE J.

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Gaston Data: Gaston Ash Pond Printed 10/11/2023, 4:38 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	-0.7797	-102	-62	Yes	20	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-16	0.009481	142	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-17	0.07765	132	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-18	0.00165	82	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-20	0.002942	70	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-15R	0.02137	146	81	Yes	24	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-16	0.03777	132	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-17	0.1544	109	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-20	0.02922	138	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-3 (bg)	-0.0003802	-120	-66	Yes	21	4.762	n/a	n/a	0.05	NP

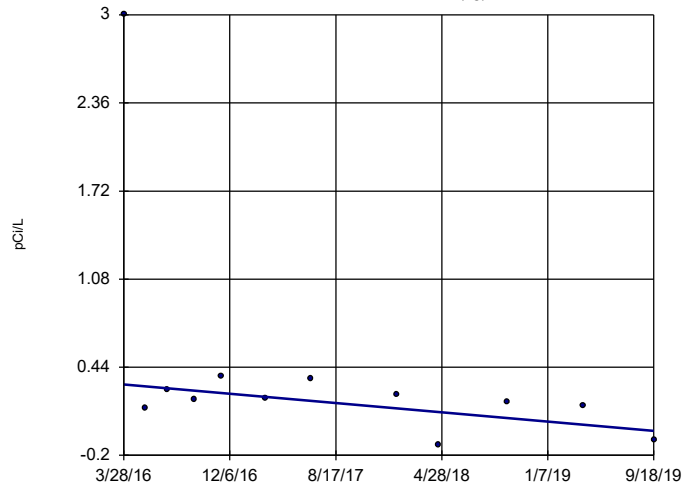
Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Gaston Data: Gaston Ash Pond Printed 10/11/2023, 4:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-2 (bg)	-0.09679	-28	-30	No	12	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-20	-0.7797	-102	-62	Yes	20	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-3 (bg)	0.01682	18	62	No	20	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-38 (bg)	0.1166	3	12	No	6	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-39 (bg)	0.2499	5	12	No	6	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-40 (bg)	0.1261	3	12	No	6	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-41 (bg)	0.06028	3	12	No	6	0	n/a	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	GN-AP-MW-42 (bg)	0.1186	7	12	No	6	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-16	0.009481	142	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-17	0.07765	132	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-18	0.00165	82	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-2 (bg)	0	0	34	No	13	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-20	0.002942	70	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-3 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-38 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-39 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-40 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-41 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GN-AP-MW-42 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-15R	0.02137	146	81	Yes	24	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-16	0.03777	132	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-17	0.1544	109	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-2 (bg)	0	15	34	No	13	84.62	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-20	0.02922	138	66	Yes	21	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-3 (bg)	-0.0003802	-120	-66	Yes	21	4.762	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-38 (bg)	-0.00001393	-1	-12	No	6	16.67	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-39 (bg)	0.0002102	3	12	No	6	16.67	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-40 (bg)	0.005352	6	12	No	6	50	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-41 (bg)	0	0	12	No	6	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	GN-AP-MW-42 (bg)	0.004407	6	12	No	6	33.33	n/a	n/a	0.05	NP

Sen's Slope Estimator

GN-AP-MW-2 (bg)

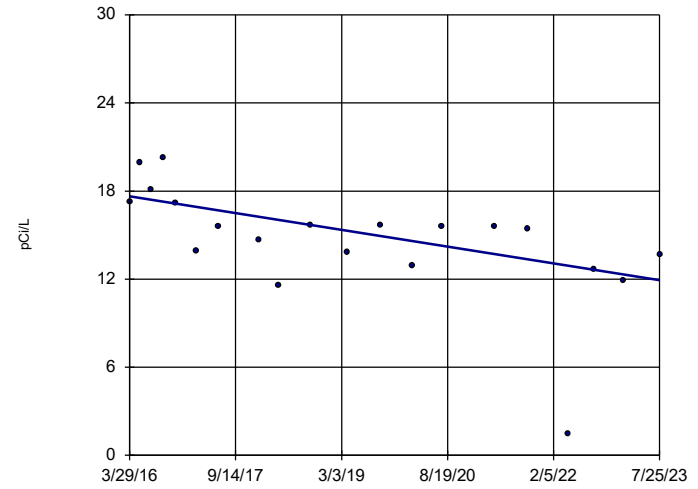


n = 12
 Slope = -0.09679
 units per year.
 Mann-Kendall
 statistic = -28
 critical = -30
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend T
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-20

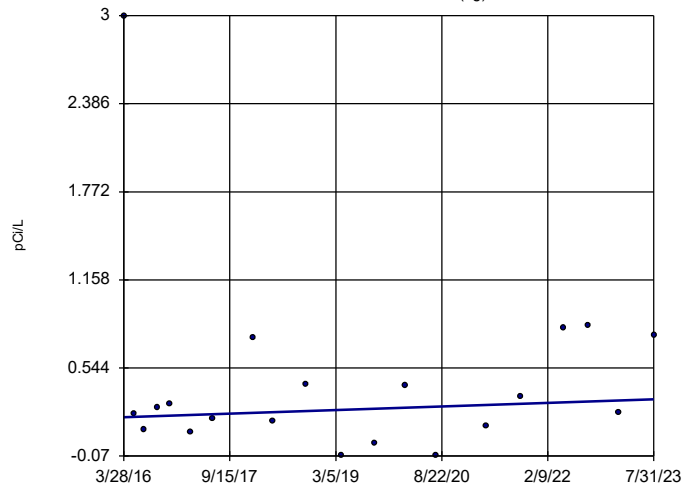


n = 20
 Slope = -0.7797
 units per year.
 Mann-Kendall
 statistic = -102
 critical = -62
 Decreasing trend
 significant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend T
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

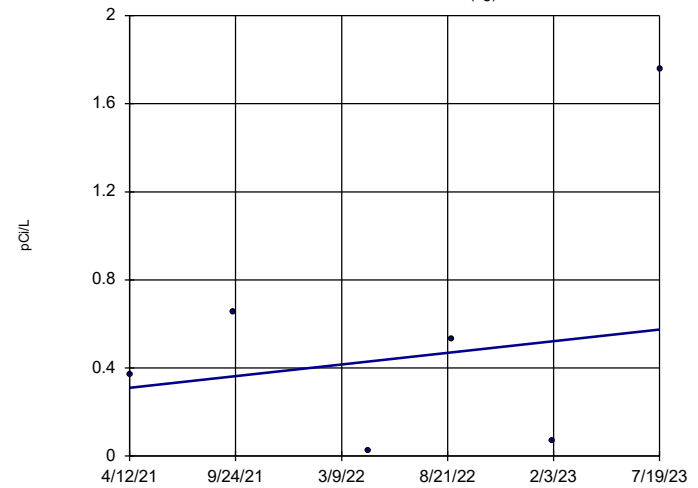


n = 20
 Slope = 0.01682
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 62
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend T
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)

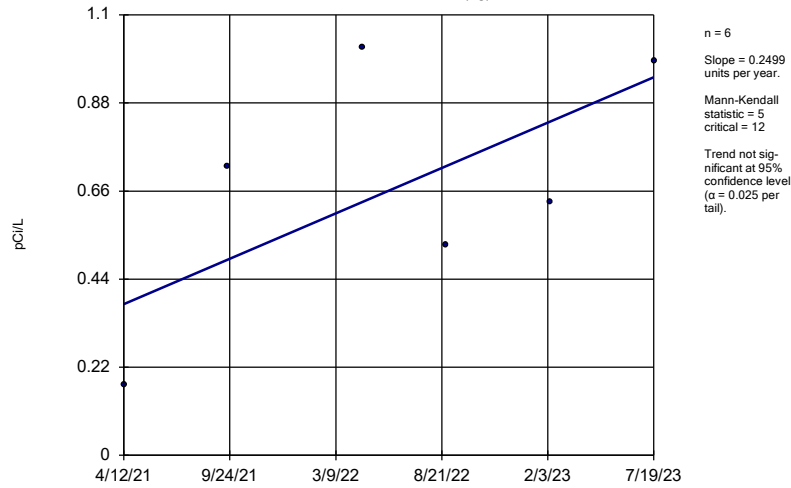


n = 6
 Slope = 0.1166
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 12
 Trend not sig-
 nificant at 95%
 confidence level
 (α = 0.025 per
 tail).

Constituent: Combined Radium 226 + 228 Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend T
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

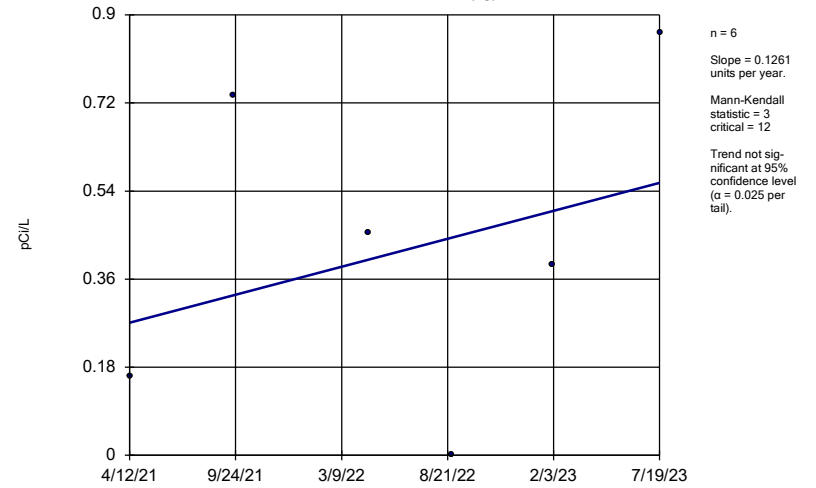
GN-AP-MW-39 (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend T
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

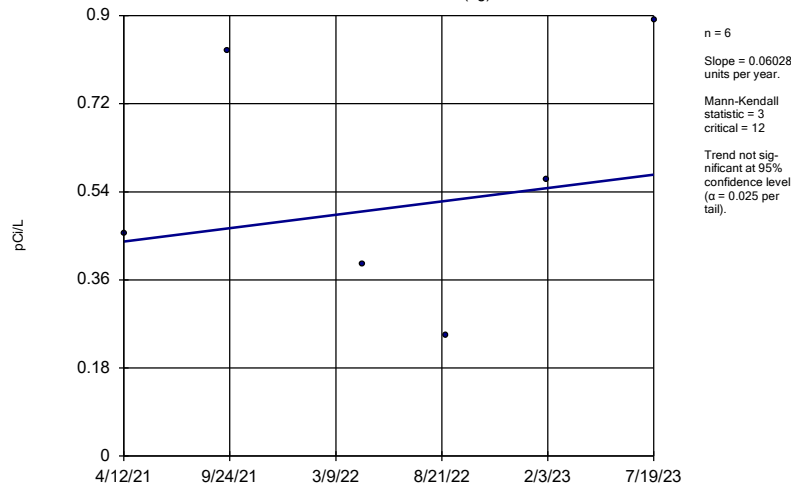
GN-AP-MW-40 (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend T
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

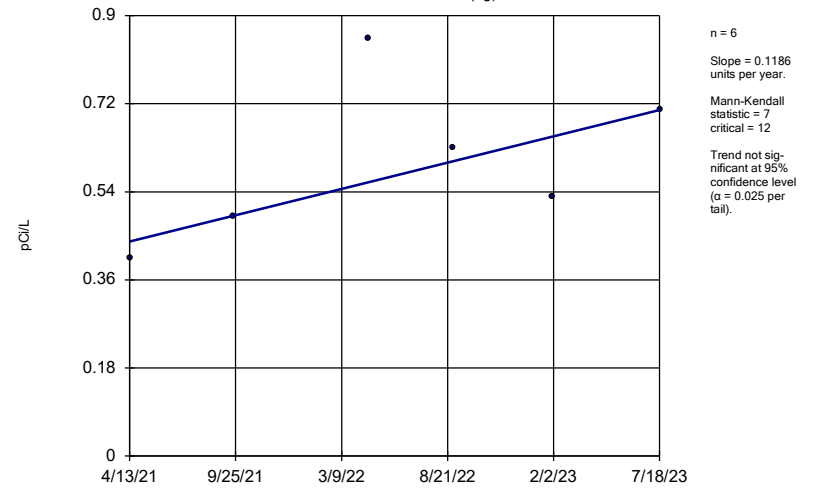
GN-AP-MW-41 (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend T
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

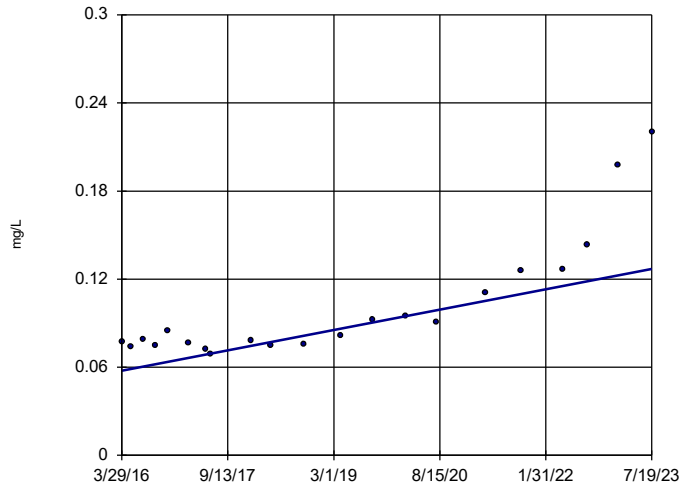
GN-AP-MW-42 (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend T
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-16

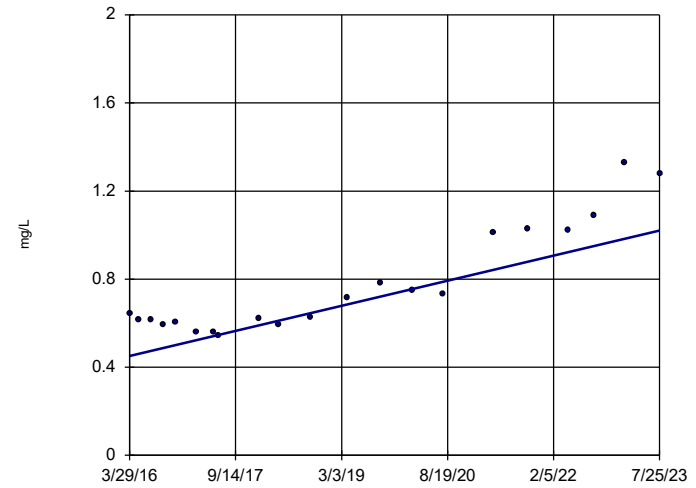


n = 21
 Slope = 0.009481
 units per year.
 Mann-Kendall
 statistic = 142
 critical = 66
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17

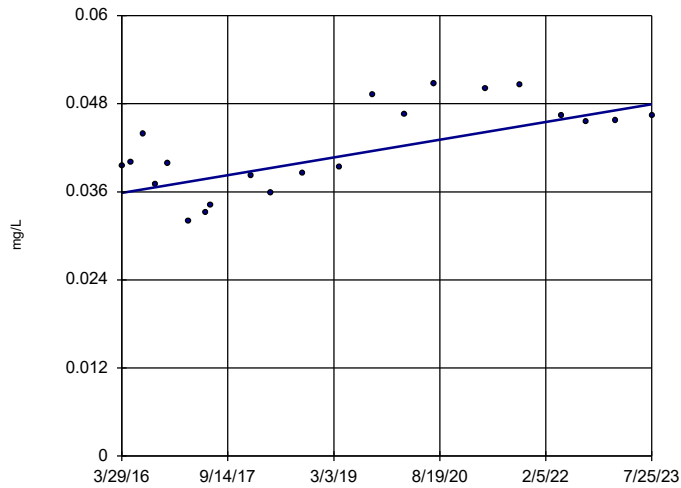


n = 21
 Slope = 0.07765
 units per year.
 Mann-Kendall
 statistic = 132
 critical = 66
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-18



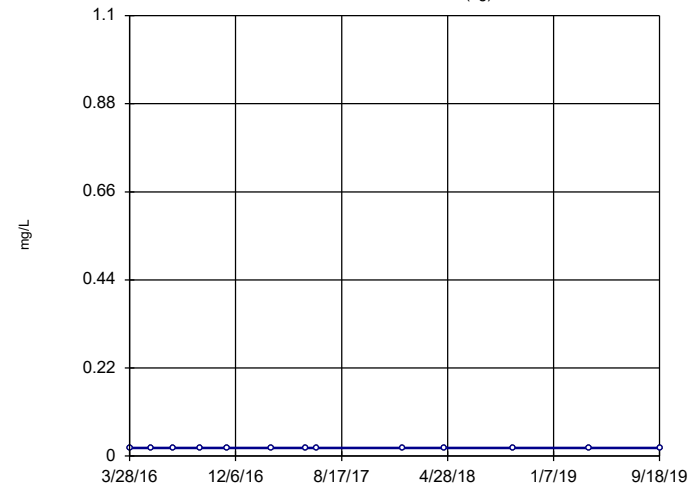
n = 21
 Slope = 0.00165
 units per year.
 Mann-Kendall
 statistic = 82
 critical = 66
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-2 (bg)

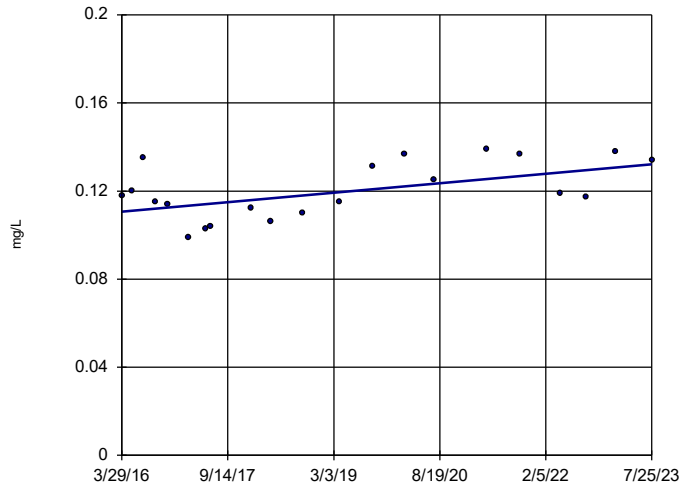


n = 13
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 34
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-20



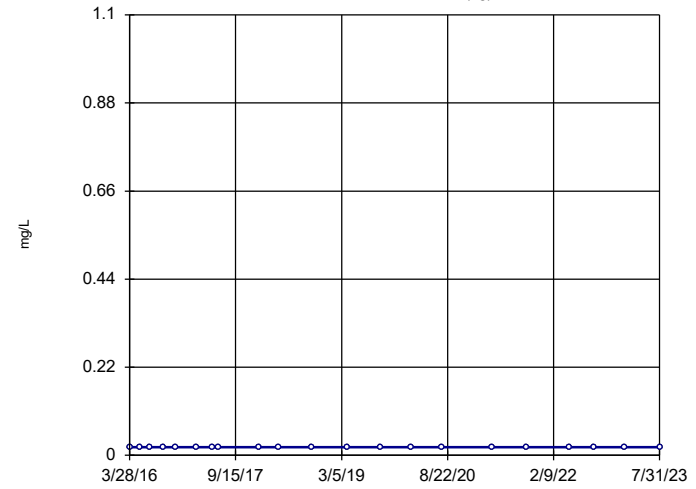
n = 21
 Slope = 0.002942
 units per year.
 Mann-Kendall
 statistic = 70
 critical = 66
 Increasing trend
 significant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-3 (bg)



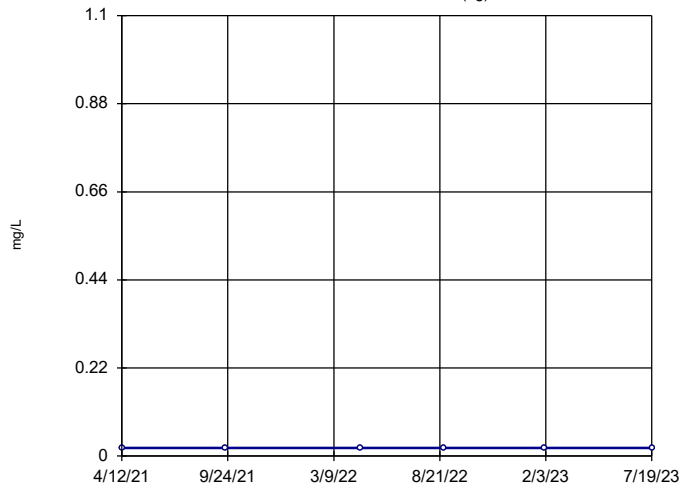
n = 21
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 66
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-38 (bg)



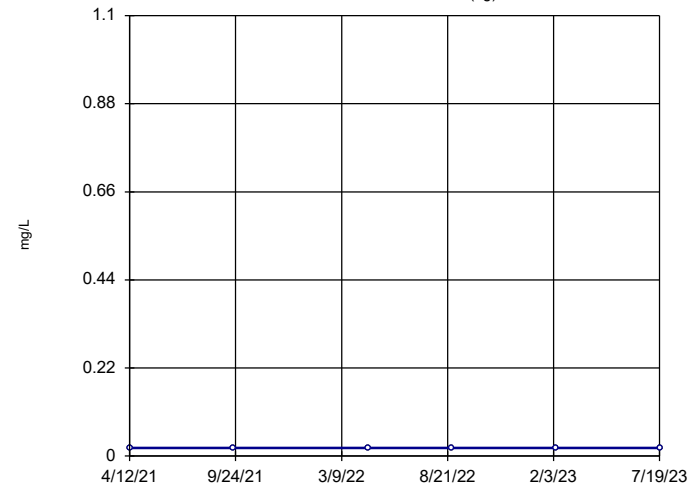
n = 6
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 12
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

GN-AP-MW-39 (bg)

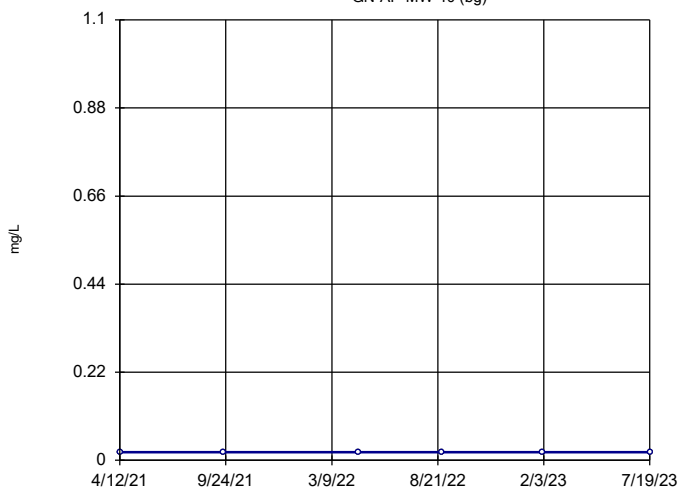


n = 6
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 12
 Trend not sig-
 nificant at 95%
 confidence level
 ($\alpha = 0.025$ per
 tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-40 (bg)

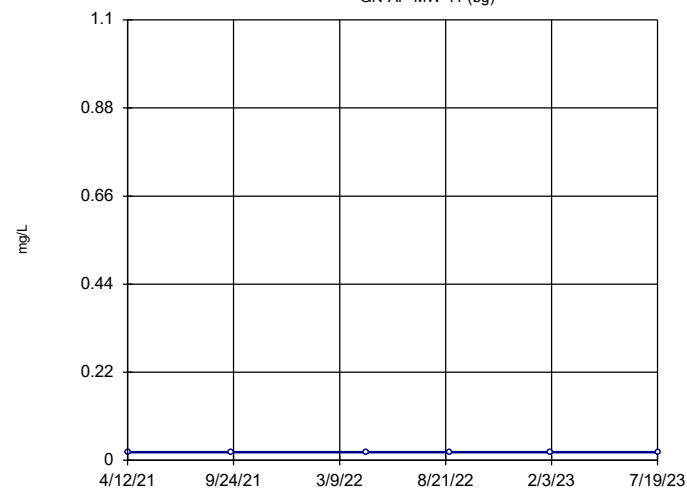


n = 6
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 12
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-41 (bg)

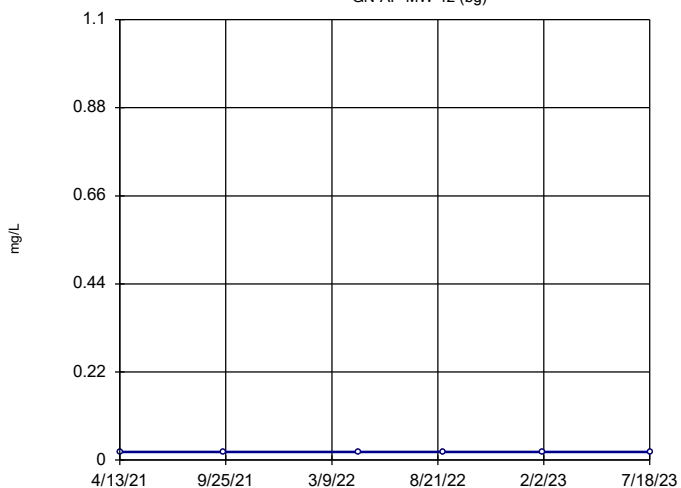


n = 6
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 12
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)

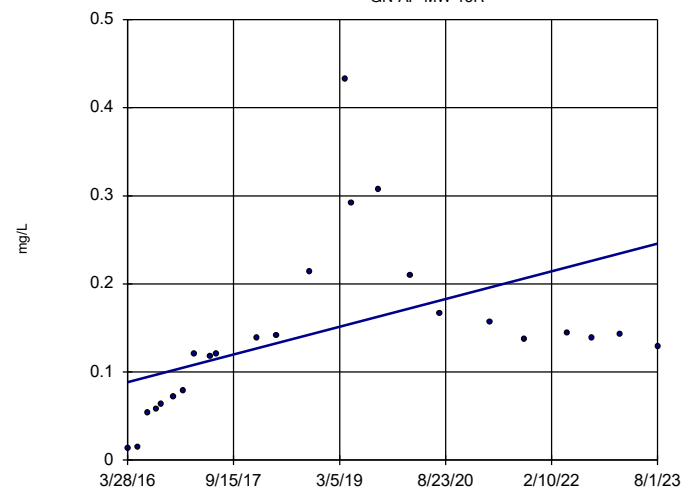


n = 6
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 12
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-15R

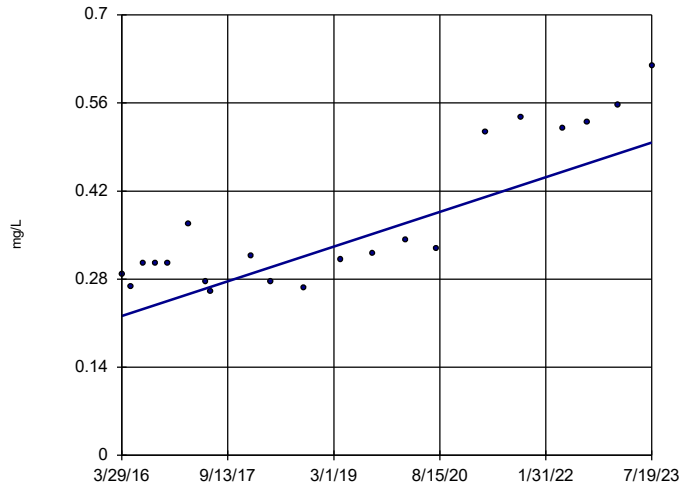


n = 24
Slope = 0.02137
units per year.
Mann-Kendall
statistic = 146
critical = 81
Increasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

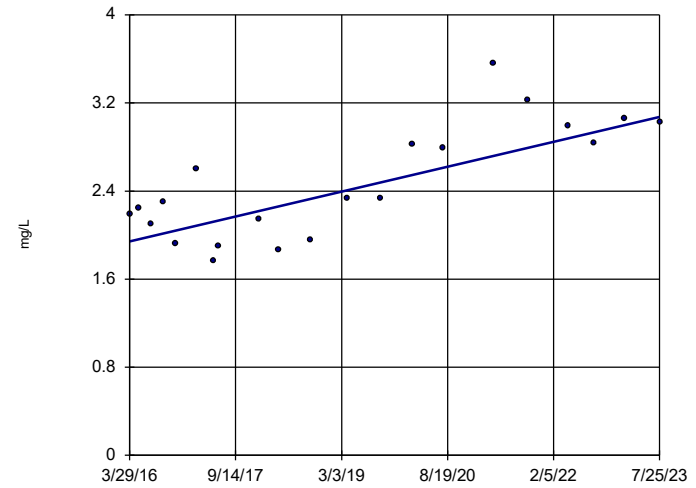
GN-AP-MW-16



Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-17

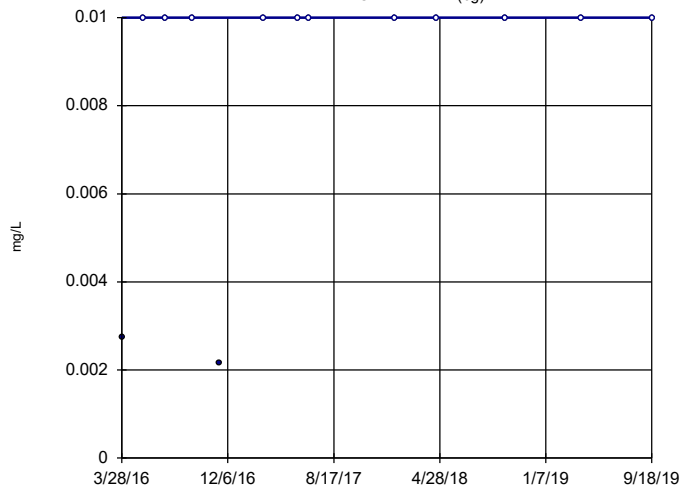


Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

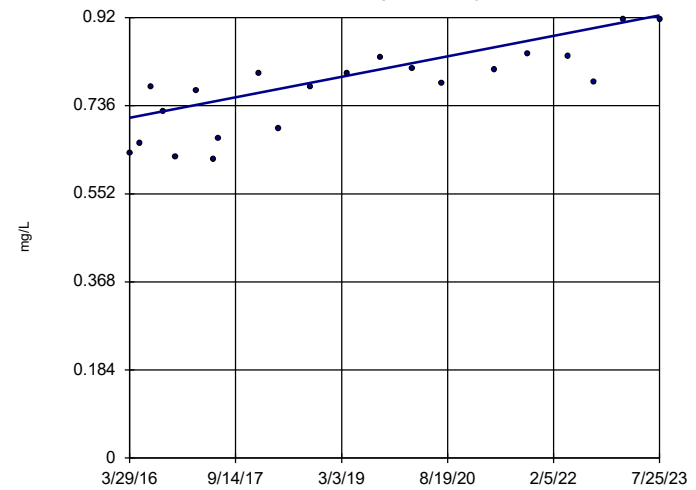
GN-AP-MW-2 (bg)



Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

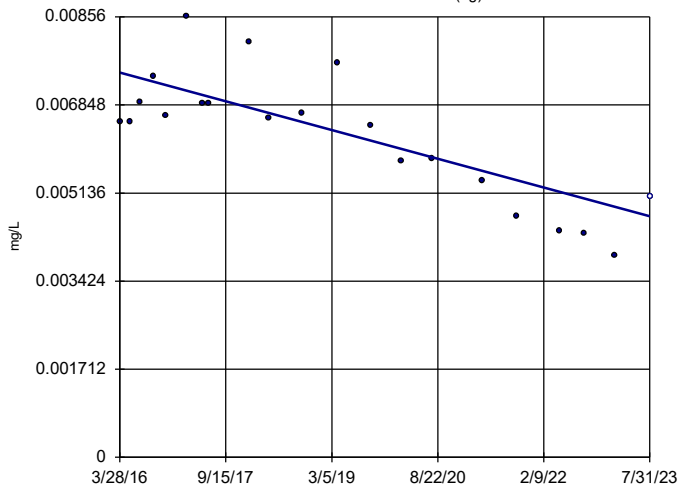
GN-AP-MW-20



Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
 Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-3 (bg)

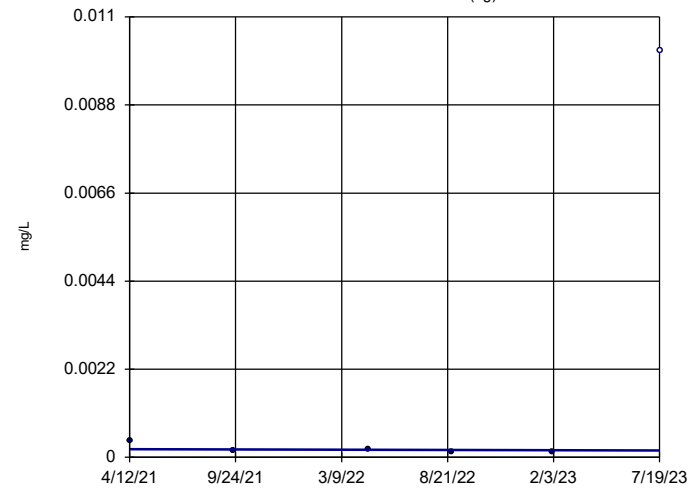


n = 21
Slope = -0.0003802
units per year.
Mann-Kendall
statistic = -120
critical = -66
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-38 (bg)

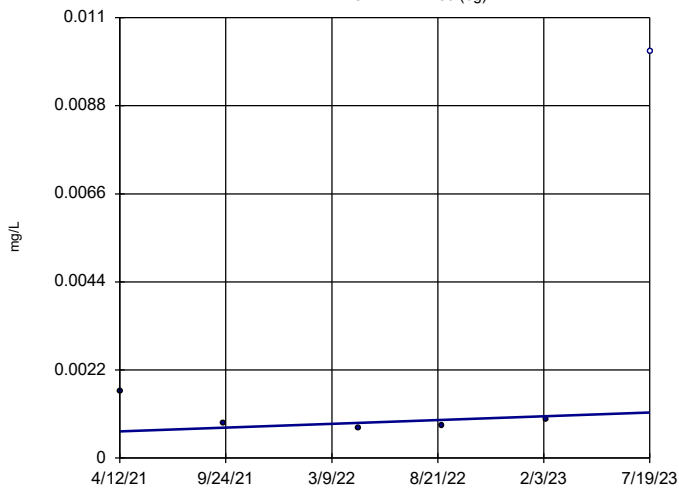


n = 6
Slope = -0.00001393
units per year.
Mann-Kendall
statistic = -1
critical = -12
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-39 (bg)

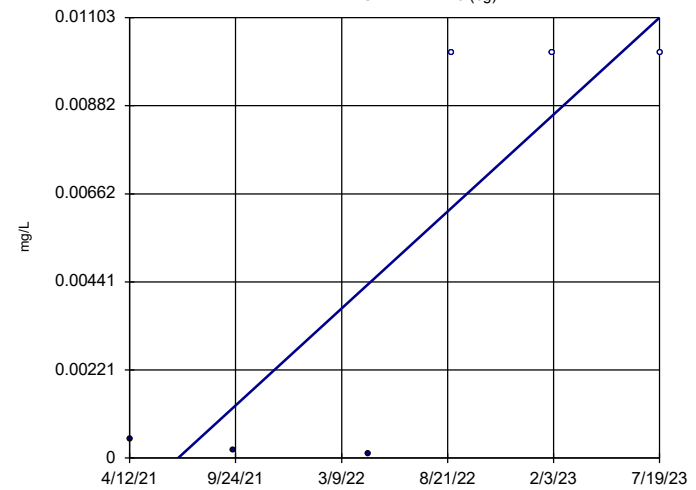


n = 6
Slope = 0.0002102
units per year.
Mann-Kendall
statistic = 3
critical = 12
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-40 (bg)

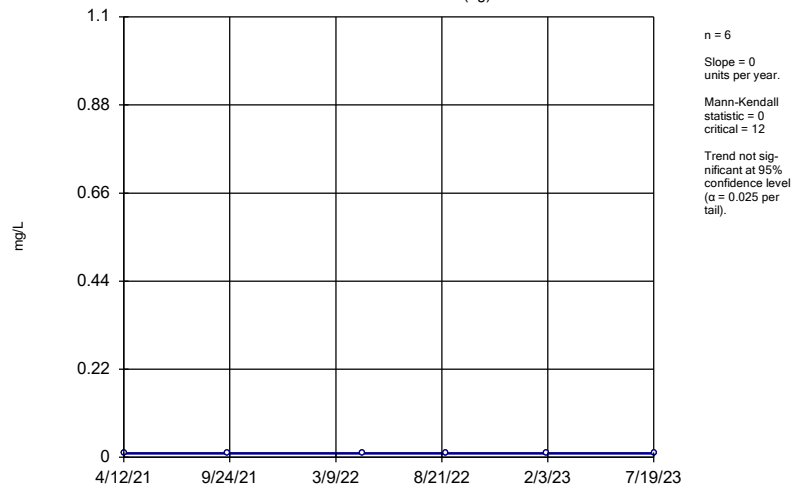


n = 6
Slope = 0.005352
units per year.
Mann-Kendall
statistic = 6
critical = 12
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

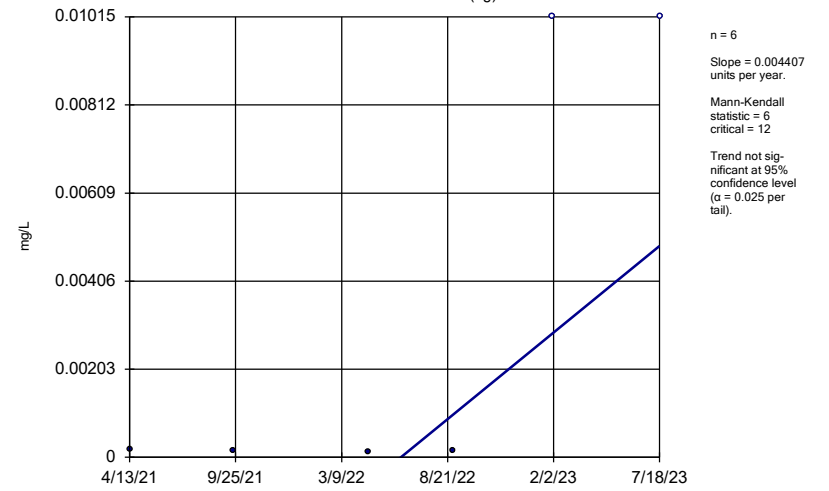
GN-AP-MW-41 (bg)



Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond

Sen's Slope Estimator

GN-AP-MW-42 (bg)



Constituent: Molybdenum Analysis Run 10/11/2023 4:36 PM View: Appendix IV - Trend Test CI
Plant Gaston Data: Gaston Ash Pond