

**2021 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY
PLANT GREENE COUNTY
ASH POND**

January 31, 2022

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2021 *Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Greene County 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 Ch. 335-13-15, and Part E of ADEM Administrative Order No. 18-097-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.

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1/31/2022

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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) 18-097-GW, this 2021 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2021 annual assessment groundwater monitoring activities at the Alabama Power Company Plant Greene County (Plant Greene County) Ash Pond and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO No. 18-097-GW. Semi-annual assessment monitoring and associated reporting for the Plant Greene County Ash Pond (Site) is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6). Additionally, in an effort to streamline and provide more thorough reports to ADEM, APC requested approval to combine the information provided in the Semi-Annual Progress Reports described in Part E of AO No. 18-097-GW into the Semi-Annual Groundwater Monitoring and Corrective Action Reports on March 15, 2021.

The Semi-Annual Progress Reports have historically been provided to the Department in March and September. ADEM approved this approach and revised timeline for submittals on March 16, 2021. APC will now provide the Department with the combined semi-annual reports in January and July of each year.

The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSIs) 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 (SSLs) of Appendix IV parameters above groundwater protection standards (GWPS) were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019 and completed on June 12, 2019 according to the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No.18-097-GW. The ACM was subsequently submitted to ADEM and posted to the site's CCR compliance web site. A public meeting to discuss the ACM was held on June 29, 2020.

Since the submittal of the ACM extensive Site investigations have been performed to select effective corrective measures to address SSLs above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-097-GW and submitted to ADEM on September 30, 2021. Subsequently, within 90 days of

remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021 for review.

The Corrective Action Groundwater Monitoring Program was prepared to meet § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program has been developed to meet the requirements of CFR § 257.98(a)(1) and ADEM Admin. Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

SSLs of Appendix IV parameters arsenic, cobalt, and lithium were detected above GWPS during 2021 semi-annual monitoring events. The following summarizes 2021 groundwater monitoring activities at the site:

- Completed the first semi-annual assessment groundwater sampling event between March 8, 2021 and March 18, 2021.
- Completed the installation, development, and sampling of five additional Phase III off-site horizontal delineation wells to further characterize spatial extent of potential impacts to groundwater from the CCR Unit between June 1, 2021 and June 30, 2021.
- Submitted the Semi-Annual Remedy Selection and Design Progress Report in June 2021.
- Submitted the 2021 Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2021.
- Completed the second semi-annual assessment groundwater sampling event between August 16, 2021 and August 27, 2021.
- Continued the evaluation of monitored natural attenuation (MNA) and geochemical manipulation as potential groundwater remediation technologies for the Site as described in the Semi-Annual Remedy Selection and Design Progress Report for the ACM submitted in June 2021 in accordance with § 257.97(a) and ADEM Admin. Code r. 335-13-15-.06(8)(a).
- Submitted the Groundwater Remedy Selection Report in accordance with § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-097-GW on September 30, 2021.
- Submitted a Corrective Action Groundwater Monitoring Program document presenting the groundwater corrective action remedies to be implemented at the Site to meet § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) on December 29, 2021.

- Pursuant to 40 CFR 257.90(e)(6), a Monitoring Period Summary table has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

The CCR unit concluded the monitoring period in assessment monitoring and APC will begin implementing the selected groundwater remedies identified in the Groundwater Remedy Selection Report and the Corrective Action Groundwater Monitoring Program submitted to ADEM. The following monitoring-related activities are planned for the CCR unit:

- Complete the installation, development, and sampling of two additional off-site delineation wells pending access agreement approval.
- Collect soil and groundwater samples for treatability studies using Site aquifer media and impacted groundwater prior to field implementation of an injection treatment pilot study.
- Conduct batch studies for reagents and doses.
- Conduct column studies for effectiveness.
- Prepare Class V UIC permit.
- Conduct the first semi-annual assessment monitoring event of 2022 and submit the semi-annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2022.

**Executive Summary Table.
Monitoring Period Summary
Plant Greene County - Ash Pond**

Assessment Monitoring Initiated: January 15, 2018
Monitoring Period: January 1 - December 31, 2021
Beginning Status: Assessment
Ending Status: Assessment

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25
Calcium	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18
Chloride	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31
Fluoride	GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-09, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18
pH	GC-AP-MW-12
Sulfate	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-9, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15
TDS	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25

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Parameter	Wells
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Cobalt	GC-AP-MW-1, GC-AP-MW-11, GC-AP-MW-14
Lithium	GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21

* 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: June 29, 2020

Groundwater Remedy

Selected During Period: Yes
Selection Date: Septmeber 30, 2021
Initiated During Period: No
Ongoing During Period: No

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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)
LCL	Lower Confidence Limit(s)
m	meter
mg/L	milligram per liter
MNA	monitored natural attenuation
MSL	mean sea level
MW-	denotes “Monitoring Well”
NCDS	National Coal Data System
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
pCi/L	picocuries per liter
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PQL	practical quantitation limit
PVC	polymerizing vinyl chloride
QA/QC	quality assurance/quality control
RL	reporting limit
RPD	relative percent difference
SEM	scanning electron microscopy
SM	Standard Method(s)
SSE	selective sequential extraction
SSI	statistically significant increase

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SSL	statistically significant level
TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	Unites States Geological Survey
UTLs	Upper Tolerance Limits
XRD	X-ray diffraction
XRF	X-ray fluorescence

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 ADEM Administrative Order (AO) No. 18-097-GW, this 2022 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2021 semi-annual assessment groundwater monitoring activities at the Plant Greene County Ash Pond and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO 18-097-GW. Semi-annual assessment monitoring and associated reporting for Plant Greene County Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

On March 15, 2021, in an effort to streamline reporting cycles and provide a single set of comprehensive semi-annual reports to ADEM, APC requested approval to re-locate the discussion of delineation results routinely provided in Semi-Annual Progress Reports to Semi-Annual Groundwater Monitoring and Corrective Action Reports. The Semi-Annual Progress Reports have historically been provided to the Department in March and September and covers content described in Part E of AO No. 18-097-GW. ADEM approved this approach and revised timeline for submittals on March 16, 2021. Semi-Annual Groundwater Monitoring and Corrective Action Reports will now include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and will continue until released in writing by ADEM.

2.0 MONITORING PROGRAM STATUS

The Site is currently in assessment monitoring, in accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Ash Pond during sampling events conducted in 2019. Pursuant to § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(i), APC completed an ACM on June 12, 2019 and in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-097-GW. The ACM was posted to the ADEM CCR compliance web site and a public meeting was held to discuss the ACM on June 29, 2020.

In accordance with § 257.97(a), ADEM Admin. Code r. 335-13-15-.06(8)(a), and Part C of Administrative Order No. 18-097-GW, Semi-Annual Remedy Selection and Design Progress Report were submitted beginning in December in 2019. The semi-annual progress reports were prepared to describe the progress made in selecting and designing a remedy for the Site.

A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-097-GW and submitted to ADEM on September 30, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021 for review.

The Corrective Action Groundwater Monitoring Program was prepared to meet § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program has been developed to meet the requirements of CFR § 257.98(a)(1) and ADEM Admin. Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

3.0 SITE LOCATION AND DESCRIPTION

Plant Greene County is in southeastern Greene County, Alabama. The physical address is 801 Steam Plant Road, Forkland, Alabama 36740. Plant Greene County lies in portions of Sections 21 and 28, Township 19 North, Range 3 East, based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983). The Ash Pond is located south of the main plant along the Black Warrior River to the south and the barge canal to the east. **Figure 1, Site Location Map**, depicts the location of the Plant and Ash Pond with respect to the surrounding area. The Ash Pond went into service in 1964 and is approximately 474 acres in size.

3.1 PHYSICAL SETTING

Plant Greene County is located in the Alluvial-deltaic Plain district of the East Gulf Coastal Plain physiographic province (Sapp and Emplainscourt, 1975). This province consists primarily of flat to gently rolling sandy uplands dissected by deeply entrenched, south to southwest flowing streams and rivers (Dejarnette and Crownover, 1987). Topography at the site gently dips radially from the plant proper and northern portions of the Ash Pond to the barge canal and Black Warrior River. The lowest elevations are approximately 60 feet above mean sea level (MSL) at the northern and southern boundaries, near the Black Warrior River, and along the eastern boundary near the coal docks (barge canal). Away from the river, in the central upland portion of the property, elevations typically range from approximately 80 to 100 feet MSL. The embankment elevations that form the perimeter of the ash pond are generally between 90 and 95 feet MSL. **Figure 2, Site Topographic Map**, provides the topography of the site.

Plant Greene County is located along a bend of the Black Warrior River. The river flows to the east across the northern property boundary, turns to the southeast of the plant, and then flows to the west across the plant's southern and southeastern boundary. East of the Ash Pond, a barge access canal was constructed to service the plant. The barge canal trends north to south and connects to the Black Warrior River near the southeastern corner of the Ash Pond.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

The geology of the site is characterized by a sequence of poorly consolidated Mesozoic sedimentary strata unconformably overlying Paleozoic rocks of the Appalachian thrust belt. Mesozoic strata are Cretaceous in age, and in descending stratigraphic order they include the Demopolis Chalk, the Mooreville Chalk, the

Eutaw Formation, the McShan Formation, the Gordo Formation, and the Coker Formation. These Cretaceous strata are generally flat-lying and dip to the southwest at approximately 35 feet per mile (or less than 2 degrees). At Plant Greene County, the Cretaceous sequence is approximately 2,500 feet thick (McIntyre et al., 2010). Quaternary alluvium and low-terrace deposits overlie the Mesozoic strata along stream and river valleys (McIntyre et al., 2010). **Figure 3, Site Geologic Map**, illustrates the surface geology at the site and neighboring areas.

Near the site, the geology consists of Quaternary alluvium deposits overlying Cretaceous Demopolis and Mooreville Chalk formations. Alluvial deposits at the site generally consist of reddish brown to reddish yellow, lean clay overlying reddish brown to tan, poorly-graded sands with interbedded lenses of gravel and clay. The alluvial overburden is between 20 to 30 feet thick in the north and 40 to 60 feet thick in the south. The base of the alluvium/top of bedrock occurs between approximately 60 and 80 feet above mean sea level (MSL) on the northern side of the pond, and approximately 40 and 20 feet above MSL towards the southern edge of the pond. Chalk that was encountered during field investigations was described as bluish green to gray clay-like material. The Demopolis Chalk is a fossiliferous chalk. The Mooreville Chalk ranges from a clayey chalk to chalky marl. Both chalk formations are low-permeability strata that retard vertical migration of groundwater in the area (Wahl, 1966). The vertical extent of these formations was not drilled during field investigations, but a search of area well logs stored on the Geological Survey of Alabama website indicates the thickness of the Mooreville and Demopolis Chalk formations are likely around 300 to 400 feet at Plant Greene County. **Figure 4A, Geologic Cross-Section A-A'**, **Figure 4B, Geologic Cross-Section B-B'**, **Figure 4C, Geologic Cross-Section C-C'**, **Figure 4D, Geologic Cross-Section D-D'**, **Figure 4E, Geologic Cross-Section E-E'**, and **Figure 4F, Geologic Cross-Section F-F'**, illustrate the geologic layering beneath the site.

In Greene County, groundwater is available in sand and gravel aquifers of the Cretaceous Eutaw, McShan, Gordo, and Coker formations. These Cretaceous aquifers have a combined thickness of approximately 1,000 feet beneath southern Greene County and exist between depths of approximately 400 to 1,400 feet BGS (Wahl, 1966). Quaternary alluvial and low-terrace deposits also produce sufficient groundwater for domestic or livestock uses. These deposits can be upwards of 80 feet in thickness near present-day streams or rivers and consist of clay, sand, and gravel. Groundwater occurs in the sands and gravels of these alluvial deposits. The Quaternary alluvial and low-terrace deposits are hydraulically separated from deeper Cretaceous aquifers by the low-permeability, confining Mooreville and Demopolis Chalk formations. These units confine underlying aquifers and limit downward percolation of water from the alluvial and low-

terrace aquifers (Wahl, 1966). As described above, these formations are believed to be approximately 300 to 400 feet thick at Plant Greene County.

3.2.1 Uppermost Aquifer

The uppermost aquifer beneath the site corresponds to alluvial and low terrace deposits where groundwater occurs in the coarser sand and gravel intervals of Unit 2. At the site, the uppermost aquifer pertains to Unit 2 and is described as a fining upward reddish brown to tan, fine to coarse sand. Unit 2 typically fines upward into more of a clayey sand and near the base coarsens with gravel. Gravel deposits are more prevalent south of the pond and closer to the present-day Black Warrior River. Depth to the uppermost aquifer generally occurs between 10 and 20 feet BGS and is 10 to 15 feet thick near the northern area of the pond and 15 to 30 feet thick near the southern edge of the pond. Aquifer performance testing (slug tests) revealed horizontal hydraulic conductivity values between 1.68×10^{-3} cm/sec and 8.29×10^{-2} cm/sec with an average of 1.83×10^{-2} cm/sec. These equate to a range of 4.76 feet per day to 235 feet per day, with an average of 51.93 feet per day. Horizontal hydraulic values are typically highest to the south in zones where gravels are present (150 to 235 ft/day) and lowest in more clayey intervals (4.76 ft/day). Clean, fine to medium sands at the site generally provide horizontal hydraulic conductivity values between 25 feet per day and 35 feet per day.

The uppermost aquifer can be described as semi-confined at the site. Unit 1 clays, where present, provide an upper confining to semi-confining layer for the uppermost aquifer. Vertical hydraulic conductivity (K_z) values obtained from Shelby tube permeameter testing range from 7.8×10^{-6} cm/sec to 8.0×10^{-8} cm/sec (2.2×10^{-2} ft/d to 2.3×10^{-4} ft/d) with an average of 1.7×10^{-6} cm/sec (4.9×10^{-3} ft/d) for Unit 1 clays. The Demopolis Chalk is encountered beneath the uppermost aquifer and provides a lower confining unit. Vertical hydraulic conductivity (K_z) values obtained from two Shelby tube permeameter tests provide values of 5.0×10^{-8} cm/sec and 1.4×10^{-8} cm/sec (1.42×10^{-4} ft/d to 3.97×10^{-5} ft/d) for Unit 3 chinks.

Groundwater recharge to the uppermost aquifer is largely accomplished by infiltration of precipitation and subsequent percolation down to the water table. Recharge rates are estimated at between 9% and 15% of precipitation, or 5 to 6 inches per year of recharge with an overall range 1 to 8 inches. Temporary recharge to the aquifer can occur during high stage or flood events of the Black Warrior River where surface water can infiltrate through hydraulically connected sand beds or infiltration of flooded water. Locally, the uppermost aquifer is hydraulically separated from deeper Cretaceous aquifer systems by 300 to 400 feet of low-permeability chalk exhibiting a permeability in the range of 10^{-8} centimeters/second.

3.2.2 Flow Interpretation

Groundwater flow is accomplished by porous (Darcy) flow mechanics with potential for preferential movement along more conductive sand and gravel lenses. Groundwater flow at the site is a subdued replica of the natural topography where gravity is the dominant force driving flow. Historically, groundwater flows from higher topographic elevations near the northernmost edge of the ash pond towards surface water bodies to the north, east, and south-southeast.

A component of the ash pond closure project includes the construction of a hydraulic barrier wall that encircles the ash consolidation area and is keyed into the underlying chalk formations. The barrier wall system includes the northern portion of the existing dike and the future construction of barrier wall segments east, west, and south to complete the consolidation area. The portion of the barrier wall, along the northern exterior dike, has been installed using the slurry trench method, as a slag-cement-bentonite wall. Slurry wall construction occurred between June 4, 2020 and June 24, 2020 and is a total of approximately 5,353 feet long. The performance requirements for the wall, as identified in the technical specification, are a hydraulic conductivity of less than or equal to 1×10^{-7} centimeters per second. Compatibility testing and modeling results conducted through February 5, 2021 indicate test samples exceed hydraulic conductivity project requirements (i.e. more impermeable). The installation of the slurry wall has effectively created an engineered groundwater divide impeding historic groundwater flow towards the surface water body to the north. Groundwater elevations measured inside and outside of the barrier wall indicate that flow inside the ash pond is now focused to the south and southeast along higher hydraulic gradients. The CCR unit closure construction contractor installed instrumentation including vibrating wire piezometers for water level monitoring for the purpose of monitoring performance and stability during closure construction activities. Vibrating wire piezometer instrumentation were installed inside and outside of the constructed barrier wall and the data was utilized along with the existing monitoring well network to interpret groundwater flow direction.

A natural topographic high southwest of the pond provides a localized mound where groundwater elevations are higher than neighboring monitoring wells. From this topographic high, groundwater flow may be radial to semi-radial, depending on if conditions develop: (1) northeast flow toward the ash pond or (2) no flow between the topographic high and southwest corner of the ash pond. Potentiometric surface maps are presented in **Section 4.1**.

In general, groundwater elevation data indicate that water levels tend to be higher in the early spring and summer, and lower during fall and winter. Groundwater elevations fluctuate in response to rainfall and changes in the Black Warrior River. Seasonal variations of 2 to 13 feet are typical at the site. Fluctuations are typically greater in magnitude at wells closer to surface water bodies to the southeast and east of the Greene County Ash Pond and lower in magnitude to the north and northwest. Groundwater Monitoring System

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Greene County has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The certified groundwater monitoring system for the Plant Greene County Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. Wells were located to serve as upgradient or downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps.

Monitoring wells were screened in the Watercourse Aquifer. The Watercourse Aquifer is composed of Quaternary alluvial and low terrace deposits consisting of interbedded sand, gravel, and clay (USGS, 1988). The monitoring systems are designed to monitor water quality as groundwater flows laterally from north to south across the site. 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

Well locations at the site are designated as upgradient, downgradient, piezometer (water-level only), and horizontal delineation. The following subsections provide a summary of well designations and if applicable, changes or modifications to the well network or designations. As described in the site Groundwater Monitoring Plan, modifications to the well network or designation must first be approved by ADEM.

The location and designation of site wells are presented on **Figure 5, Monitoring Well Location Map** and **Table 1a. Compliance Monitoring Well Network Detail, Table 1b. Delineation Monitoring Well Network Details, and Table 1c. Piezometer Well Network Details** summarize the monitoring well construction details and design purpose for the Plant Greene County Ash Pond.

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.

Monitoring well locations GC-AP-MW-23, GC-AP-MW-24, and GC-AP-MW-26 through GC-AP-MW-30 serve as upgradient locations for the Ash Pond. Upgradient wells are located northeast and east of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site and are separated hydraulically by no flow zones or the Greene County barge canal. **Table 1a**, summarizes the monitoring well construction details and design purpose.

3.3.1.2 Downgradient Wells

Monitoring well locations GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5 through GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33 are used as downgradient locations for the Ash Pond. Downgradient locations are located north, south, east, and west of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site. **Table 1a** summarizes the monitoring well construction details and design purpose.

3.3.1.3 Delineation Well Installation

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-097-GW, additional wells were installed to characterize the horizontal extent of GWPS exceedances identified during assessment monitoring. Phase I was conducted between December 2018 to August 2019. Eleven horizontal delineation wells, GC-AP-MW-34HA and GC-AP-MW-35H through GC-AP-MW-44H, were installed and sampled to assess the lateral extent of groundwater impact in the directions of groundwater flow away from the facility. One existing piezometer, GC-AP-PZ-4, was also used for horizontal delineation. Vertical delineation wells were not needed at the site because the uppermost aquifer is confined at its base by 300 to 400 feet of low-permeability chalk exhibiting a permeability in the range of 10^{-8} centimeters/second.

Following a review of data gathered from the Phase I investigation, additional groundwater investigation was proposed to ADEM in a Phase II Delineation Plan submitted August 15, 2019. The purpose of the plan was to further delineate horizontal extent of groundwater impacts. Twelve additional horizontal delineation wells were proposed in a plan submitted to ADEM in August 2019. Seven additional on-site horizontal

delineation wells, located adjacent to the north and northwest property boundaries (GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-56H, and GC-AP-MW-57H) and the south and southwest property boundaries (GC-AP-MW-45H, GC-AP-MW-48H, and GC-AP-MW-49H), were installed in December 2019.

Six additional delineation wells were installed off-site, and access agreements with the property owners were required. An off-site access agreement was reached in April 2020 with one adjacent landowner and four additional delineation wells were installed in May 2020. Delineation wells GC-AP-MW-47HO and GC-AP-MW-50HO were installed south and southwest of the property boundary. Delineation wells GC-AP-MW-59HO and GC-AP-MW-55HO were installed west and northwest of the property boundary. Off-site access agreement were reached in June 2020 with the two remaining adjacent landowners to the south and the west of the Site and two additional delineation wells were installed in June 2020. Delineation wells GC-AP-MW-46HO and GC-AP-MW-52HO were installed south and west of the property boundaries, respectively.

Following a review of the March 2021 analytical data, it was determined that additional (Phase III) off-site delineation was necessary to the northwest, west, southwest, and south of the property boundary. Off-site access agreements were reached with the two of the three property owners in May 2021. Delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed northwest of the property boundary and GC-AP-MW-62HO, GC-AP-MW-63HO, and GC-AP-MW-64HO were installed southwest and south of the property boundary in June 2021. The installation of two additional off-site delineation wells located west of the property boundary is pending an off-site access agreement with a third property owner.

Delineation wells are identified on **Figure 5** and detailed on **Table 1b**. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

3.3.1.4 Piezometers

Locations GC-AP-PZ-19 and GC-AP-PZ-22 are used as water-level only piezometers. The piezometers are used to enhance groundwater potentiometric surfaces and constrain flow direction. Measurable water levels in piezometer GC-AP-PZ-22 fluctuate seasonally and is planned to be abandoned because the piezometer is predominantly dry. **Table 1c** summarizes the water-level only piezometer construction details.

3.3.1.5 Monitoring Well Replacement and Abandonment

No monitoring well replacements and/or abandonments were conducted during the reporting period. **Table 1d Abandoned Well Network Details** provides the monitoring well details for previously abandoned wells.

3.4 GROUNDWATER MONITORING HISTORY

In accordance with §257.94(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 sampling was performed over the period of February 2016 to June 2017. Groundwater sampling for the first detection monitoring event after the background period was performed in August 2017.

Based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, APC 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 February 2018, within 90 days of initiating the assessment monitoring program. Semi-annual assessment sampling continued with sampling events in June and November of 2018, March and September 2019, April and August 2020, and March and August 2021.

Statistical evaluations of 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS, and the site entered into Assessment of Corrective Measures. Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-097-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 three phases of groundwater investigations between December 2018 and June 2021. 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. However, additional delineation well installations and data collection have occurred independent of routine compliance sampling events to support continuing assessment activities at the site.

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, Groundwater Analytical Data**.

3.4.2 Historical Groundwater Flow

Historically groundwater elevations and potentiometric surface maps show that groundwater flow patterns have been consistent across monitoring events. However, and as described in **Section 3.2.2**, as ash pond closure activities progress over the years and upon completion of closure, groundwater elevations will likely display variability representative of changing site hydrodynamics and eventually, a new set of equilibrium conditions. The consolidation of CCR material, as well as, the process and installation of a containment berm and slurry wall, will have transient and long-term impacts on groundwater flow directions and velocities away from the CCR unit. 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 the 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 groundwater protection standards (GWPS) of 0.006 milligrams per liter (mg/L) for cobalt; 0.015 mg/L for lead; 0.040 mg/L for lithium; and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.

3.5 GROUNDWATER SAMPLING AND ANALYSIS

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

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

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

3.5.1 Groundwater Sample Collection

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

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with § 257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). All monitoring wells at Plant Greene County 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 10 NTU.
- Temperature and ORP – record only, no stabilization criteria.

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

3.5.2 Sample Preservation and Handling

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

3.5.3 Chain of Custody

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

3.5.4 Laboratory Analysis

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

3.5.5 Monitoring Period Sampling Events Summary

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the preceding year. Semi-annual Assessment Monitoring sampling events occurred in March 2021 and August 2021.

The first semi-annual assessment monitoring event took place between March 8, 2021 and March 18, 2021. A groundwater monitoring report summarizing data and activities from semi-annual sampling event 1 was submitted to the Department in July 2021. The second semi-annual assessment monitoring event took place between August 16, 2021 and August 27, 2021.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during each Assessment Monitoring event. All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services performed the laboratory analyses of Radium-226 and Radium-228 (reported combined). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring events is included as **Appendix C** in accordance with the requirements of § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

4.0 GROUNDWATER ELEVATIONS AND FLOW

During the March 2021 sampling event, depths to water ranged from 5.11 to 32.87 feet below top of casing (ft BTOC) and groundwater elevations ranged from 94.54 to 76.61 feet above mean seal level (ft MSL). Additionally, comprehensive water level measurements were collected during a delineation sampling event conducted on June 28, 2021. Depths to water ranged from 5.49 to 33.06 ft BTOC and groundwater elevations ranged from 94.24 to 76.33 ft MSL. **Figure 6A, Potentiometric Surface Contour Map (March 8, 2021)** and **Figure 6B, Potentiometric Surface Contour Map (June 28, 2021)** depict groundwater elevations and inferred groundwater flow direction during the first 2021 semi-annual sampling event.

During the August 2021 sampling event, depths to water ranged from 6.64 to 34.33 ft BTOC and groundwater elevations ranged from 93.04 to 75.40 feet above mean seal level ft MSL. **Figure 6C, Potentiometric Surface Contour Map (August 16, 2021)** depicts groundwater elevations and inferred groundwater flow direction during the second 2021 semi-annual sampling event.

As shown on **Figure 6A, Figure 6B,** and **Figure 6C** groundwater flow is generally towards the south with some flow observed towards the north, west, and east. A previously discussed in section 3.2.2 the installation of the slurry wall has effectively created an engineered groundwater divide impeding historic groundwater flow towards the surface water body to the north. Groundwater elevations measured inside and outside of the barrier wall indicate that flow inside the ash pond is now focused to the south and southeast along higher hydraulic gradients.

Groundwater elevation data from delineation monitor well GC-AP-MW-38H is not included in the potentiometric surface contour maps. The monitor well was installed in an area of perched water located along the barge canal and adjacent to monitor well GC-AP-MW-17. Recent groundwater elevation data has been tabulated and included in **Table 3, Recent Groundwater Elevations Summary**. All available historical groundwater elevation data recorded since 2016 has been tabulated and included in **Appendix B**.

4.1 GROUNDWATER FLOW VELOCITY CALCULATIONS

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on slug test data at the site, hydraulic conductivity ranges from 1.68×10^{-3} cm/sec to 8.29×10^{-2} cm/sec with an average of 1.83×10^{-2} cm/sec. These equate to a range of 4.76 feet per day to 235 feet per day, with an average of 51.93 feet per day, which is used in the flow calculations. An effective porosity of 25% was used based on the default values for effective porosity recommended by EPA for a silty sand-type soil (U.S.

USEPA, 1996). The hydraulic gradient was calculated between well pairs shown in **Appendix D, Horizontal Groundwater Flow Velocity Calculation.**

Horizontal flow velocity was calculated using the commonly-used derivative of Darcy's Law:

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

Where:

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

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

i = Horizontal hydraulic gradient

n_e = Effective porosity

Appendix D presents the estimated horizontal flow velocity calculated using groundwater elevation data from the first and second semi-annual sampling events in 2021.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

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

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

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

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

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where RPD is below 20%, the difference is considered acceptable and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4A, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during the second semi-annual monitoring event of 2021. All RPDs were below 20% for 2021 sampling events.

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

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

Based on this data validation step, thirty-four chromium results and one arsenic result have qualifiers modified from J to (+) U*, and the corresponding MDL value, updated to match the blank concentration detected on the same date. **Table 4C, Field QC: Validation Results (Blanks)** provides a summarized list of data validation flags that could be applied to site data during the second semi-annual monitoring period. Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation and or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

5.2 STATISTICAL METHODOLOGY AND TESTS

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

5.2.1 Appendix III Evaluation

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

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

The following adjustments were made:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in the background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

5.2.2 Appendix IV Evaluation

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

Parametric tolerance limits (i.e. UTLs) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent 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, 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 assessment monitoring, when the Lower Confidence Limit (LCL), or the entire confidence interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. Data from upgradient wells collected in between updates may still be used to support ASDs if merited.

5.3 STATISTICAL EXCEEDANCES

Analytical data from the 2021 semi-annual monitoring events in March and August were statistically analyzed in accordance with the professional engineer (PE)-certified Statistical Analysis Plan (October 2017 and revised in August 2020) by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents had returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

5.3.1 Appendix III Constituents

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

5.3.2 Appendix IV Constituents

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

The following subsections describe statistical exceedances during the 2021 semi-annual monitoring events.

Statistical analysis of Appendix IV data identified the following statistically significant levels (SSLs) over GWPS at the listed wells during both the first and second semi-annual monitoring events:

- GC-AP-MW-1: Arsenic, Cobalt.
- GC-AP-MW-5: Arsenic, Lithium.
- GC-AP-MW-10: Arsenic, Lithium.
- GC-AP-MW-11: Cobalt, Lithium.

- GC-AP-MW-12: Lithium.
- GC-AP-MW-13: Lithium.
- GC-AP-MW-14: Arsenic, Cobalt, Lithium.
- GC-AP-MW-15: Lithium.
- GC-AP-MW-16: Arsenic, Lithium.
- GC-AP-MW-17: Arsenic, Lithium.
- GC-AP-MW-18: Arsenic, Lithium.
- GC-AP-MW-21: Lithium.

Table 6, First Semi-Annual Monitoring Event Analytical Summary, and Table 7, Second Semi-Annual Monitoring Event Analytical Summary, provide a summary of all detected constituents for the first and second semi-annual sampling events.

5.3.2.1 Delineation Wells

Limited groundwater analytical data are available for delineation wells installed at the site in 2019, 2020, and 2021. Limited data exists to statistically compare results to the GWPS; therefore, groundwater quality data is simply compared to the GWPS. A review of analytical data derived from delineation wells identified the following GWPS exceedances for the second 2021 semi-annual sampling event:

- GC-AP-MW-37H: Cobalt.
- GC-AP-MW-39H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-40H: Lithium.
- GC-AP-MW-41H: Lithium.
- GC-AP-MW-42H: Cobalt.
- GC-AP-MW-43H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-44H: Cobalt.
- GC-AP-MW-45H: Lithium.
- GC-AP-MW-46HO: Lithium.
- GC-AP-MW-47HO: Lithium.
- GC-AP-MW-48H: Lithium.
- GC-AP-MW-49H: Lithium.
- GC-AP-MW-50HO: Lithium.
- GC-AP-MW-53H: Arsenic, Cobalt.
- GC-AP-MW-54H: Arsenic, Cobalt, Lithium.

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- GC-AP-MW-57H: Arsenic, Cobalt.
- GC-AP-MW-59HO: Cobalt.
- GC-AP-MW-64HO: Lithium
- GC-AP-PZ-4: Cobalt.

Details regarding the installation and sampling of these wells, and future proposed actions as a result of these exceedances, were submitted to ADEM in a Groundwater Investigation Report on May 13, 2019 and subsequent updates in September 2019, March 2020, and September 2020.

To address SSLs at the site, an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic, cobalt, and lithium in groundwater at the site in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No. 18-097-GW. The ACM was submitted to the Department and placed in the operating record on June 12, 2019. A Groundwater Remedy Selection Report was prepared and submitted to ADEM on September 30, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021 for review.

6.0 GROUNDWATER ASSESSMENT

As required by Part E of the Order (AO 18-097-GW) and correspondence from ADEM (March 2021), this report includes an update of 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 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 indicated that groundwater delineation had been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan. However, following a review of the March 2021 groundwater sampling event analytical data, it was determined that additional off-site delineation (Phase III) was necessary to further delineate the horizontal extent of groundwater impacts northwest, west, southwest, and south of the property boundary.

6.1 CHRONOLOGY OF DELINEATION ACTIVITIES

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

6.1.1 Delineation Wells

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

Phase I – Groundwater Investigation (December 2018 – August 2019)

Phase I was conducted between the dates of December 2018 to January 2020. **Table 1B** and **Figure 5**, present details, and locations of delineation wells. The following summarizes all activities that were completed during Phase I of groundwater delineation at the Site:

- Installation of 11 horizontal delineation wells (GC-AP-MW-34HA, GC-AP-MW-35H through GC-AP-MW-44H) proximal to the property boundary installed in the Unit 2 Aquifer and in the direction of groundwater flow away from the facility between December 17, 2018 and January 10, 2019.
- Collected eight ash samples for waste characterization analyses.
- Successfully developed all 11 delineation wells between December 27, 2018 and January 13, 2019.
- Sampled the 11 delineation wells and three pre-existing ash pond piezometers between January 14, 2019 and March 28, 2019.
- Evaluation of wells that suggest additional investigation of adjacent property is necessary to determine whether a plume of Appendix IV constituents may statistically exceed groundwater protection standards on that property.
- Submitted a semi-annual progress report to the department on March 29, 2019.
- Submitted a Groundwater Investigation Report to the Department on May 13, 2019. This report recommended a second phase of groundwater investigation to complete delineation of groundwater impacts as required by Part B of the Order.
- Submitted an Assessment of Corrective Measures to the Department on July 11, 2019 as required by Part C of the Order.
- Submitted a Phase II – Groundwater Delineation Plan to the Department on August 15, 2019. This plan documented planned activities associated with proposed Phase II delineation efforts.

Phase II – Groundwater Investigation (September 2019 – August 2020)

Following a review of data gathered from the Phase I Investigation, additional groundwater investigation was proposed to the Department in a Phase II Delineation Plan submitted August 15, 2019. The purpose of the plan was to further delineate horizontal extent of groundwater impacts. Phase II was conducted between the dates of September 2019 to March 2020. **Table 1B** and **Figure 5**, present details, and locations of delineation wells. The following summarizes all activities that were completed during Phase II of groundwater delineation at the Site:

- Completed semi-annual assessment groundwater sampling event between September 9, 2019 and September 13, 2019.
- Submitted a semi-annual progress report to the department on September 30, 2019.

- Installed 7 additional on-site horizontal delineation wells located adjacent to the north and northwest property boundaries (GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-56H, and GN-AP-MW-57H) and the south and southwest property boundaries (GC-AP-MW-45H, GC-AP-MW-48H, and GC-AP-MW-49H) between December 5, 2019 and December 17, 2019.
- Developed all 7 additional on-site horizontal delineation wells between December 10, 2019 and December 11, 2019.
- Sampled the 7 additional on-site horizontal delineation wells between December 16, 2019 and December 17, 2019.
- Provided the Department with a response on December 30, 2019 to the ADEM letter of November 14, 2019, Responding to CCR Documents Submitted to the Department.
- Submitted the 2019 Annual Groundwater Monitoring and Corrective Action Report to the Department on January 31, 2020. The report identified wells that suggested additional investigation of adjacent properties was necessary to determine whether a plume of Appendix IV constituents may statistically exceed groundwater protection standards on that property.
- Submitted a semi-annual progress report to the department on March 30, 2020.
- Completed semi-annual assessment groundwater sampling event between April 20, 2020 and May 1, 2020.
- Installed four additional off-site horizontal delineation wells between May 12, 2020 and May 17, 2020. Horizontal delineation wells GC-AP-MW-47HO and GC-AP-MW-50HO were installed south and southwest of the property boundary. Horizontal delineation wells GC-AP-MW-59HO and GC-AP-MW-55HO were installed west and northwest of the property boundary.
- Developed and sampled off-site delineation wells, GC-AP-MW-47HO, GC-AP-MW-50HO GC-AP-MW-55HO, and GC-AP-MW-59HO between May 26, 2020 and May 28, 2020.
- Installed two additional off-site horizontal delineation wells between June 9, 2020 and June 15, 2020. Horizontal delineation wells GC-AP-MW-46HO and GC-AP-MW-52HO were installed south and west of the property boundaries respectively.
- Developed and sampled off-site delineation wells, GC-AP-MW-46HO and GC-AP-MW-52HO were successfully between June 25, 2020 and July 6, 2020. Analytical data is included in **Appendix B**.

- Submitted the 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report to the Department on July 31, 2020.
- Completed semi-annual assessment groundwater sampling event between August 10, 2020 and August 21, 2020 and submitted data in 2020 Annual Groundwater Monitoring and Corrective Action Report to the Department on January 31, 2021.

Phase III – Groundwater Investigation (January 2021 – July 2021)

Following a review of the March 2021 groundwater sampling event analytical data, it was determined that additional (Phase III) off-site delineation was necessary to further delineate the horizontal extent of groundwater impacts northwest, west, southwest, and south of the property boundary. Off-site access agreements were reached with the two of the three property owners in May 2021. Delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed northwest of the property boundary and GC-AP-MW-62HO, GC-AP-MW-63HO, and GC-AP-MW-64HO were installed southwest and south of the property boundary. The installation of two additional off-site delineation wells located west of the property boundary is pending an off-site access agreement with a third property owner. Phase III was conducted between the dates of June 9, 2021 and June 30, 2021. **Table 1B** and **Figure 5**, present details, and locations of delineation wells.

The following summarizes activities completed to date during Phase III of groundwater delineation at the Site:

- Submitted the 2020 Annual Groundwater Monitoring and Corrective Action Report to the Department on January 31, 2021.
- Completed the first semi-annual assessment groundwater sampling event between March 8, 2021 and March 18, 2021.
- Installed five additional Phase III off-site horizontal delineation between June 1, 2021 and June 9, 2021. Horizontal delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed northwest of the property boundary and horizontal delineation wells GC-AP-MW-62HO, GC-AP-MW-63HO and GC-AP-MW-64HO were installed southwest and south of the property boundary.
- Submitted the Semi-Annual Remedy Selection and Design Progress Report on June 14, 2021.
- Completed the development, and sampling of five Phase III off-site delineation wells to further characterize spatial extent of potential impacts to groundwater from the CCR Unit on June 30, 2021.

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 8 ash samples and sampling of ash pore-water at 3 locations was conducted. Leachability testing was conducted for EPA Resource and Recovery Act (RCRA) heavy metals, while ash pore-water was sampled for all EPA Appendix III and IV constituents. Groundwater quality data is compared to source water and leachate composition to provide a basis for evaluating the degree to which the source area has contributed constituents to groundwater.

6.3 DISCUSSION OF DELINEATION RESULTS

Analytical results identified concentrations above GWPS of EPA Appendix IV constituents: arsenic, cobalt, and lithium from onsite horizontal delineation wells and cobalt and lithium from offsite horizontal delineation wells during the second semi-annual monitoring period of 2021.

Arsenic concentrations above GWPS were not detected in any of the off-site horizontal delineation wells. Arsenic concentrations above GWPS were detected in five onsite horizontal delineation wells; GC-AP-MW-39H, GC-AP-MW-43H, GC-AP-MW-53H, GC-AP-MW-54H, and GC-AP-MW-57H. **Figure 7A, Arsenic Isoconcentration Contour Map** illustrates the horizontal extent of arsenic impacts to groundwater.

Cobalt concentrations above GWPS were detected in nine onsite horizontal delineation wells; GC-AP-PZ-4, GC-AP-MW-37H, GC-AP-MW-39H, GC-AP-MW-42H, GC-AP-MW-43H, GC-AP-MW-44H, GC-AP-MW-53H, GC-AP-MW-54H, and GC-AP-MW-57H and one off-site horizontal delineation well GC-AP-MW-59HO. **Figure 7B, Cobalt Isoconcentration Contour Map** illustrates the horizontal extent of cobalt impacts to groundwater.

Lithium concentrations above GWPS were detected in eight onsite horizontal delineation wells; GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-43H, GC-AP-MW-45H, GC-AP-MW-48H, GC-AP-MW-49H, and GC-AP-MW-54H and four off-site horizontal delineation well GC-AP-MW-46HO, GC-AP-MW-47HO, GC-AP-MW-50HO, and GC-AP-MW-64HO. **Figure 7C, Lithium Isoconcentration Contour Map** illustrates the horizontal extent of lithium impacts to groundwater.

Wells configured specifically for vertical delineation are not required at the site as the uppermost aquifer is confined at its base by 250 feet of low permeability chalk (10^{-8} cm/s) and the thickness of the aquifer is thin

(10 to 30 feet). The Demopolis Chalk is encountered beneath the uppermost aquifer and provides a lower confining unit. Vertical hydraulic conductivity (K_z) values obtained from two Shelby tube permeameter tests provide values of 5.0×10^{-8} cm/sec and 1.4×10^{-8} cm/sec (1.42×10^{-4} ft/d to 3.97×10^{-5} ft/d) for Unit 3 chinks.

Isoconcentration lines shown on **Figures 7A - 7C** are data-driven contours derived from the spatial distribution of constituent concentrations in the well network. When spatially distributed objects are correlated (i.e., objects close together with similar characteristics are compared), mathematical interpolation can be used to predict quantities between the objects. In this case, the Geostatistical Analyst tool within ArcGIS was utilized to interpolate constituent concentrations between well locations within the area where concentrations were above laboratory method detection limits.

In cases where concentrations decrease below the GWPS in between well pairs, the extent of groundwater impacts are interpreted from the interpolated (predicted) data set. This takes into account the spatial pattern of decreasing concentrations observed in nearby wells.

The location and spacing of delineation wells are largely based upon the following goals and site factors:

1. Determine if impacts to groundwater could extend off-site in the direction of groundwater flow away from the facility.
2. Evaluate potential for vertical migration adjacent to compliance wells with SSLs and within the context of site hydrogeology.
3. Address key data gaps between phases – working in from property line or off-site depending on gaps.
4. Ability to safely access locations with drill rig and supporting equipment.
5. Occurrence of groundwater and sufficient groundwater yield/recharge at locations.
6. Delineate extent of impacts and capture additional hydrogeologic data necessary to evaluate the feasibility of groundwater remediation technologies.

As shown on **Table 1B**, 28 delineation wells have been installed at the site to assess potential impacts and one previously existing piezometer (GC-AP-PZ-4) redesignated for delineation. Additionally, one delineation well (GC-AP-MW-56H) was installed but did not produce sufficient groundwater yield to sample and was abandoned (**Table 1D**).

6.3.1 Arsenic Delineation

As shown on **Figure 7A, Arsenic Isoconcentration Map**, arsenic impacts to groundwater can be divided into two spatial zones: (1) a northern zone and (2) a central zone. The northern zone encompasses wells GC-AP-MW-1, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-53H, GC-AP-MW-54H and GC-AP-MW-57H. Arsenic is delineated onsite to the north as defined by delineation wells GC-AP-MW-44H, GC-AP-PZ-4, and GC-AP-MW-34HA and to the north/northeast as defined by delineation wells GC-AP-MW-35H and GC-AP-MW-36H and upgradient wells GC-AP-MW-23 and GC-AP-MW-24. Arsenic is delineated off-site to the northwest as defined by delineation wells GC-AP-MW-55HO, GC-AP-MW-59HO, GC-AP-MW-60HO and GC-AP-MW-61HO and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33. Additionally, compliance well GC-AP-MW-3 exhibited arsenic concentrations slightly above the GWPS for the first time during the March 2021 sampling event (0.0112 mg/L) and August 2021 sampling event (0.0119 mg/L) but is not an SSL.

The central zone includes two wells GC-AP-MW-10 and GC-AP-MW-43H to the west, two wells GC-AP-MW-14 and GC-AP-MW-39H to the southeast and three wells GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18 to the east. Arsenic is delineated to the west as defined by delineation wells GC-AP-MW-52HO and GC-AP-MW-50HO. The installation of two additional off-site delineation wells to confirm delineation west of the property boundary is pending an access agreement with the landowner. Additionally, compliance well GC-AP-MW-9 exhibited an arsenic concentration slightly above the GWPS during the March 2021 sampling event (0.0105 mg/L) but below GWPS during the August sampling event (0.00695 mg/L). Arsenic is delineated to the southeast as defined by delineation wells GC-AP-MW-40H and GC-AP-MW-41H and downgradient well GC-AP-MW-15. Arsenic is delineated to the east along the barge canal as defined by delineation wells GC-AP-MW-37H and GC-AP-MW-38H and the upgradient wells located on the other side of the barge canal as determined by potentiometric surface contour maps (**Figures 6A, 6B and 6C**).

6.3.2 Cobalt Delineation

As shown of **Figure 7B, Cobalt Isoconcentration Map**, cobalt concentrations display significant variations from well to well. However, like arsenic exceedances discussed above, cobalt exceedances can roughly be grouped into two similar spatial zones: northern and central. Only one off-site delineation well located northwest of the property boundary (GC-AP-MW-59HO) exhibited a concentration above GWPS. Phase III off-site delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed to further characterize spatial extent of potential impacts to groundwater from the CCR Unit to the northwest. Cobalt

concentrations were below GWPS in delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO during the March and August sampling events

The northern zone includes compliance wells GC-AP-MW-1 and GC-AP-MW-2 and delineation well GC-AP-PZ-4. Only one compliance well in this area (GC-AP-MW-1) was recorded as an SSL. However, compliance well GC-AP-MW-2 has exhibited cobalt concentrations above the GWPS during the March 2021 and August 2021 sampling events but was not an SSL. The remaining wells with cobalt exceedances above GWPS are located to the northwest and include horizontal delineation wells GC-AP-MW-44H, GC-AP-MW-53H, GC-AP-MW-54H, and GC-AP-MW-57H and off-site delineation well GC-AP-MW-59HO.

Cobalt is delineated to the north/northeast as defined by off-site delineation well GC-AP-MW-55HO, delineation wells C-AP-MW-35H and GC-AP-MW-36H, and upgradient wells GC-AP-MW-23 and GC-AP-MW-24. Cobalt is delineated to the northwest as defined by delineation wells GC-AP-MW-34HA, GC-AP-MW-60HO, and GC-AP-MW-61HO, and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33.

The central zone of cobalt exceedances include compliance wells GC-AP-MW-9, GC-AP-MW-10, and GC-AP-MW-11 and delineation wells GC-AP-MW-42H and GC-AP-MW-43H to the west/southwest and compliance wells GC-AP-MW-14, GC-AP-MW-15, and GC-AP-MW-18 and delineation wells GC-AP-MW-37H, and GC-AP-MW-39H to the east/southeast. Compliance wells GC-AP-MW-11 and GC-AP-MW-14 were recorded as SSLs. Additionally, compliance wells GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-15, and GC-AP-MW-18 exhibited cobalt concentrations above the GWPS during the March 2021 and August 2021 sampling events but were not recorded SSLs.

The remaining wells with cobalt exceedances in the area are horizontal delineation wells GC-AP-MW-42H and GC-AP-MW-43H to the west and GC-AP-MW-37H, and GC-AP-MW-39H to the east. Cobalt is delineated off-site to the west as defined by delineation wells GC-AP-MW-52HO and GC-AP-MW-50HO. Two additional delineation wells located to the west of the property boundary and between delineation wells GC-AP-MW-52HO and GC-AP-MW-50HO are pending access agreements with the landowner. Cobalt is delineated to the southeast as defined by delineation wells GC-AP-MW-41H and GC-AP-MW-45H. Cobalt is delineated to the east along the barge canal as defined by delineation wells GC-AP-MW-38H and GC-AP-MW-40H and the upgradient wells located other side of the barge canal as determined by potentiometric surface contour maps (**Figures 6A, 6B and 6C**).

6.3.3 Lithium Delineation

As shown of **Figure 7C, Lithium Isoconcentration Map**, lithium concentrations exceeding the GWPS are mainly concentrated to the central and southern areas of the pond and adjacent areas. To the northwest, lithium was detected above the GWPS in two wells GC-AP-MW-5 and GC-AP-MW-54H. Compliance well BY-AP-MW-6 exhibited a lithium concentration below the GWPS during the three most recent sampling events. Historically, lithium concentrations in GC-AP-MW-6 have been below GWPS only exceeding GWPS three of seventeen sampling events. Lithium is delineated to the northwest on-site by compliance well BY-AP-MW-6, GC-AP-MW-7, and delineation wells GC-AP-MW-57H and GC-AP-MW-44H and off-site by delineation wells GC-AP-MW-59HO, additional Phase III horizontal delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO, and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33.

To the west, lithium was detected above the GWPS in wells GC-AP-MW-10 and GC-AP-MW-43H. Compliance well GC-AP-MW-9 exhibited a lithium concentration above the GWS during the March 2021 and below the GWPS during the August 2021 sampling event. Lithium is delineated to the west as defined by onsite compliance wells GC-AP-MW-7, GC-AP-MW-8, and delineation well GC-AP-MW-42H and off-site delineation well GC-AP-MW-52HO. Two additional delineation wells located to the west of the property boundary and delineation well GC-AP-MW-43H are pending access agreements with the landowner.

To the south/southwest, lithium was detected onsite above the GWPS in wells GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-21, GC-AP-MW-48H, and GC-AP-MW-49H. Lithium was detected above GWPS in off-site delineation wells GC-AP-MW-46HO, GC-AP-MW-47HO and GC-AP-MW-50HO. Lithium has been delineated to the southwest with the installation of two additional Phase III delineation wells GC-AP-MW-62HO and GC-AP-MW-63HO. A review of analytical data from delineation wells GC-AP-MW-62HO and GC-AP-MW-63HO indicated lithium concentrations were non-detect during the March and August sampling events. One additional Phase III off-site delineation well, GC-AP-MW-64HO, was installed south of the property boundary along the Black Warrior River. Lithium was detected above the GWPS in delineation well GC-AP-MW-64HO during the March 2021 sampling event (0.128 mg/L) and the August sampling event (0.142 mg/L). The assumption is that this extends in the direction of prevailing groundwater flow for assessment of corrective measures.

To the east/southeast, lithium was detected onsite above the GWPS in compliance wells GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18 and delineation

wells GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, and GC-AP-MW-45H. Delineation wells GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, GC-AP-MW-40H, were installed to laterally delineate groundwater impacts to the barge canal boundary and to the southeast GC-AP-MW-41H and GC-AP-MW-45H were installed downgradient proximal to the property boundary, the Black Warrior River. Lithium is below GWPS in delineation wells GC-AP-MW-37H and GC-AP-MW-38H along the northern end of the barge canal. Lithium exceedances extend to the southern end of the barge canal and to the southeast of the property boundary with the Black Warrior River. However, delineation has been completed to the extent feasible as locations on the other side of the barge canal are upgradient of the Site as determined by potentiometric surface contour maps (**Figures 6A, 6B and 6C**). Lithium concentrations in delineation wells GC-AP-MW-41H and GC-AP-MW-45H exceeded the GWPS, the assumption is that this extends in the direction of prevailing groundwater flow for assessment of corrective measures.

6.4 STATUS OF DELINEATION

A plan was executed to investigate potential impacts to groundwater at Plant Greene County. Horizontal delineation wells were installed over the course of three phases of field work and data was collected on CCR contained within the Plant Greene County Ash Pond to characterize the nature of saturated CCR as a potential source. Vertical delineation wells were not required at the site as the Demopolis Chalk, an estimated 250-ft thick low permeability chalk (10^{-8} cm/s) is present beneath the uppermost aquifer and provides a lower confining unit.

A comprehensive groundwater delineation report summarizing findings was submitted to ADEM in September 2020. The conclusions and results presented indicated that groundwater delineation had been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan. However, following a review of the March 2021 groundwater sampling event analytical data, it was determined that additional off-site delineation (Phase III) was necessary to further delineate the horizontal extent of groundwater impacts northwest, west, southwest, and south of the property boundary. Off-site access agreements were reached with two of the adjacent landowners and five additional delineation wells were installed and sampled between June 9, 2021 and June 30, 2021. An off-site access agreement with the third adjacent landowner is pending and two additional delineation wells are proposed to complete delineation to the west of the property boundary. Analytical results from the completed Phase III off-site delineation wells have confirmed groundwater delineation is completed to the north, south, and east of the property boundaries.

6.5 GROUNDWATER QUALITY CHANGES AND TRENDS

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

- Arsenic concentrations in compliance well GN-AP-MW-9 decreased to below GWPS during the August 2021 sampling event and have exhibited a trend of fluctuating concentrations of slightly above GWPS to below GWPS between March 2019 and August 2021.
- Compliance well GN-AP-MW-3 exhibited arsenic concentrations above GWPS for the first time during the 2021 sampling events in March and August.
- Cobalt concentrations in compliance well GN-AP-MW-2 have increased to above GWPS during the 2020 and 2021 sampling events but are not an SSL.
- Cobalt concentrations in horizontal delineation well GN-AP-MW-44H have increased to above GWPS during the 2020 and 2021 sampling events.
- Phase III off-site delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO have confirmed that cobalt concentrations are delineated to the northwest of the CCR unit.
- Lithium concentrations are limited to a small area northwest of the CCR unit and include compliance well GN-AP-MW-5 and GN-AP-MW-54H.
- Compliance well BY-AP-MW-6 exhibited a lithium concentration below the GWPS during the three most recent sampling events. Historically, lithium concentrations in GC-AP-MW-6 have been below GWPS only exceeding GWPS three of seventeen sampling events.
- Lithium concentrations in compliance well GN-AP-MW-9 dropped below the GWPS during the August 2021 sampling event as part of a downward trend that began in September 2019.

Groundwater quality changes and/or trends are related to closure construction activities and will continue to be observed throughout the closure process. Many of the trends appear to be associated with the ash pond closure activities - namely the halt to sluicing and ash dewatering. Trends and groundwater quality changes will continue to be monitored throughout closure to evaluate assessment needs and to better inform groundwater remedy plans.

7.0 EVALUATION OF GROUNDWATER CORRECTIVE MEASURES

Groundwater remedy selection has occurred in the following two stages: 1) completing an ACM to identify potentially feasible remedies for the Site after the initial determination that GWPSs have been exceeded; and 2) evaluating potential remedies to develop a site-specific remedy plan.

7.1 REMEDY SELECTION

Since submittal of the ACM in June 2019 (Anchor QEA, 2019), investigation have been performed to select effective corrective measures for constituents of interest (COIs) in groundwater at the Site. Semi-annual and annual status reports regarding investigation and evaluation have been submitted to the Department and posted to the Site's CCR compliance webpage. Based on investigations and evaluation, the following corrective measures were proposed in the Groundwater Remedy Selection Report submitted in September 2021 to address GWPS exceedances at the Plant Greene County Ash Pond:

- 1) Source control to include dewatering, consolidation, capping of the Site, and the installation of a subsurface barrier (slurry) wall completely around the consolidated perimeter keyed into the relatively impermeable chalk aquitard.
- 2) Monitored Natural Attenuation (MNA).
- 3) Geochemical manipulation via injections in areas of relatively high concentrations of COIs to remove them from groundwater and immobilize them in situ.

7.1.1 Source Control

The Site will be closed in a manner that controls “the source(s) of releases so as to reduce or eliminate, to the maximum extent feasible, further releases of constituents in Appendix IV to this part into the environment,” as required by 40 CFR § 257.97(b)(3) and ADEM Admin. Code r. 3351315.06(8)(b)3.

The proposed corrective action strategy incorporates the closure of the Site, which will effectively control the source of CCR constituents to groundwater by removing free liquid from the CCR, reducing the area of the Site footprint, encircling the Site with a subsurface barrier wall, and capping the CCR in place to prevent further infiltration. Specifically, the design for the Site closure calls for dewatering and consolidating the CCR material from the current Site footprint of approximately 489 acres to an area of approximately 221 acres within a diked area bounded on the northern end by the northern portion of the existing exterior dike, and to the east, west, and south by a new interior dike constructed as part of the Site closure. A barrier wall

keyed into the existing underlying chalk layer will be constructed around the perimeter of the consolidated CCR material, along with a final cover consisting of an engineered synthetic turf and geomembrane (APC 2020). Site closure activities began in 2019.

To isolate groundwater beneath the Site, a vertical subsurface barrier wall is being constructed around the consolidated CCR and keyed into the low-permeability chalk deposit. The vertical barrier wall will extend from ground surface and penetrate the uppermost aquifer overlying the chalk deposit. Coupled with the low-permeability clay and soil underlying the consolidated CCR deposits, the barrier wall will further isolate the Site from contact with groundwater outside the barrier wall. Construction of a segment of the barrier wall is complete within a portion of the northern dike where CCR material is being consolidated. The approximate extent of the portion of the barrier wall that has already been constructed can be seen in **Figure 5, Monitoring Well Location Map**.

The final cover will be constructed to “control, minimize or eliminate, to the maximum extent feasible, post-closure infiltration” of stormwater into the closed CCR unit, which will mitigate potential releases of COIs to groundwater. The final cover system, at a minimum, will meet or exceed the requirements of 40 CFR § 257.102(d)(3)(ii) and ADEM Admin. Code r. 335-13-15-.07(3)(d)3.(ii) (alternative cover system). Current design for the cover is the synthetic ClosureTurf cover system that utilizes a 50-mil linear low-density polyethylene geomembrane overlain by an engineered synthetic turf. The synthetic turf will contain a minimum 1/2-inch sand infill. The permeability of the final cover system will be less than the permeability of the natural subsoils beneath the surface impoundment. Final design will ensure the disruption of the integrity of the final cover system is minimized through a design that accommodates settlement and subsidence, in addition to providing an upper component for protection from wind or water erosion. The final cover system will have a permeability of 10^{-7} cm/sec or less (APC 2020). Infiltration will also be impeded by providing sufficient grades and slopes to: 1) preclude the probability of future impoundment of water or sediment on the cover system; 2) ensure slope and cover system stability; 3) minimize the need for further maintenance; and 4) be completed in the shortest amount of time consistent with recognized and generally accepted good engineering practices (APC 2020).

7.1.2 Monitored Natural Attenuation (MNA)

MNA is a selected remedy for the Greene County Ash Pond. Based on the geochemical investigations, several lines of evidence support multiple attenuating mechanisms, depending upon the COIs. The major attenuating mechanisms include the following:

- Arsenic attenuation by sorption on and coprecipitation with iron oxides and, possibly, precipitation of barium arsenate
- Cobalt attenuation by incorporation into a cobalt-iron oxide
- Lithium attenuation by ion exchange on oxides and clay minerals

Rates of attenuation were determined by results of reactive transport modeling and by extrapolating decreasing trends on the concentration versus time graphs to the GWPS for areas where decreasing trends were observed. Depending on the COIs and well/location, the estimated time to achieve natural attenuation ranges from 2 to 40 years, which is reasonable compared to durations of other corrective action technologies. Based on MNA case histories for inorganic constituents, MNA time frames typically range from a few years to decades (EPRI 2015). Because pond closure activities (consolidation and capping) at the Site are projected to take approximately 5 additional years, the time frame for MNA is compatible with the closure period.

Column studies were performed to assess the ability for the aquifer (soil) to chemically attenuate COIs and to help determine the stability of the attenuated COIs. Cobalt and lithium showed limited ability to sorb to the aquifer media based on column studies. However, these constituents are still subject to other attenuating mechanisms, such as physical attenuation (dispersion and flushing) and coprecipitation, as indicated by the concentration versus time graphs, concentration versus distance graphs, and geochemical studies.

Column studies indicate that arsenic is significantly attenuated by aquifer media, as arsenic in column effluent remained less than 13% of the influent concentrations. Arsenic attenuation capacity was extrapolated to the entire mass of the aquifer downgradient of the consolidated Site but within the property boundary. The extrapolation showed that the aquifer has an attenuating capacity of many more times the mass of arsenic requiring attenuation. SSE studies indicate that most of the mass of all three COIs occurs in the oxidizable and residual fractions, which are very stable attenuation phases.

Corrective action performance monitoring consists of two major components: 1) monitoring for sitewide corrective action, which would include MNA and the positive benefits of source control and geochemical manipulation (injections) at the Site scale; and 2) remedial effectiveness monitoring for geochemical manipulation in the areas of injections. Sitewide monitoring applies to MNA because MNA will be implemented over the entire Site.

7.1.3 Geochemical Manipulation via Injection

Geochemical manipulation via subsurface injections is an in situ remediation technology for inorganic constituents in groundwater. In this technology, treatment solutions are injected to create solid precipitates, which remove COIs from groundwater during their formation and continue to sorb COIs on their surfaces over time. Geochemical manipulation for arsenic is well established and, due to geochemical similarities, should also be effective for cobalt. Geochemical manipulation is an emerging technology for lithium and has had significant technological development over the last 2 years (EPRI 2021).

Geochemical manipulation was selected because of its effectiveness, ease of implementation versatility (ability to treat more than one COI with the same treatment solution), ability to implement in areas with limited working space, and lack of byproducts that would require further treatment or disposal. Site-specific laboratory treatability studies using Site aquifer media and impacted groundwater will be performed prior to field implementation of injection treatment. These studies will evaluate multiple viable treatment solutions and a range of doses.

After selection of the optimum treatment reagents and doses, injections will be performed in two phases: a field pilot phase and follow-up treatments as needed based on the results of the pilot injections and ongoing groundwater monitoring data. Areas with the highest concentrations of arsenic, lithium, and/or cobalt will be selected for field pilot studies. A requisite monitoring period (anticipated to be approximately 1 year) will follow the field pilot injections. This approach to injection treatment is consistent with adaptive site management for corrective action.

As described in the Groundwater Remedy Selection Report (Anchor QEA 2021), site closure (source control) measures are expected to reduce concentrations of COIs in groundwater. Other areas with SSLs will be treated as needed in a second phase of injection based on groundwater monitoring data from the field pilots and ongoing sitewide monitoring. Depending upon the effectiveness of treatment, injections may need to be repeated periodically, though required time between injection treatments is expected to be years (based on other injection treatment precedents).

7.1.4 Adaptive Site Management

As applied here, adaptive site management is a component of the corrective action monitoring program, in which monitoring results are continually evaluated to determine if the system is making progress toward achieving remedy goals. Based on system performance—either achieving goals or not making expected progress—the remedy system may need to be adapted or changed. Adaptation of the system may include

ceasing actions no longer necessary or changing the system because it is not performing as expected. The adaptive site management approach plans for changes at the Site and provides a process to make changes as necessary.

7.2 CORRECTIVE ACTION MONITORING PROGRAM

As required by 40 CFR § 257.98(a) and ADEM Admin. Code r. 335-13-15-.06(9)(a), the owner/operator must implement the groundwater remedy within 90 days of selecting a remedy, including establishing a corrective action groundwater monitoring program. That monitoring program must perform the following actions: 1) meet the assessment monitoring requirements of 40 CFR § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6); 2) document the effectiveness of the remedy; and 3) demonstrate compliance with the GWPS.

A Corrective Action Groundwater Monitoring Program (Anchor QEA 2021) document providing site-specific remedy monitoring details was submitted to ADEM on December 29, 2021. The document presents the Corrective Action Groundwater Monitoring Program for the groundwater corrective action remedies implemented at the Plant Greene County Ash Pond. Corrective action groundwater monitoring at the Site is required by the U.S. Environmental Protection Agency coal combustion residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257.98 and Alabama Department of Environmental Management (ADEM), Administrative Code (Admin. Code) r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. This Monitoring Program has been developed to meet the requirements of CFR § 257.98(a)(1) and ADEM Admin. Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

Corrective action groundwater monitoring will be performed at the Site in two stages:

- Stage 1, performed during closure when activities will likely create disequilibrium and variability in groundwater flow and chemistry; and
- Stage 2, performed after closure is substantially complete or when groundwater conditions have stabilized.

Stage 1 will include ongoing compliance monitoring, remedial-effectiveness monitoring for geochemical manipulation (injection treatment) pilot studies, MNA performance monitoring, sentinel/clean-line monitoring (including surface water monitoring), and demonstration that Site conditions remain protective

of potential human and ecological receptors. Prompt action will be taken should data or data trends indicate such actions are warranted.

Stage 1 of the Monitoring Program will be performed during the closure period. Closure activities will improve Site groundwater conditions but likely create disequilibrium and variability during the closure process. Closure activities will likely cause short-term changes in local groundwater conditions, resulting in changes in geochemistry and groundwater flow directions. These changes are expected to result in variability and trends in constituent concentrations that do not represent long-term equilibrium conditions. During this period of disequilibrium, corrective action monitoring will consist of the following:

- Continued assessment monitoring of the certified CCR monitoring system required by the CCR Rule.
- Injection treatment and monitored natural attenuation (MNA) monitoring, with the understanding that MNA monitoring results could be variable during the closure period and may not be representative of post-closure conditions.
- Sentinel/clean-line boundary monitoring to demonstrate that delineation remains complete and that Site conditions continue to be protective of potential human and ecological receptors.

In addition to continued rule-required assessment monitoring, the primary monitoring objectives during Stage 1 are to demonstrate that horizontal and vertical delineation remain complete, demonstrate that natural attenuation is occurring, and evaluate groundwater constituent of interest (COI) concentrations with respect to standards protective of potential human and ecological receptors.

Stage 2 monitoring will be implemented upon Site closure, with the first two years of Stage 2 monitoring consisting of background data collection to serve as a baseline. Stage 2 monitoring will comprise ongoing compliance monitoring, or additional wells or sampling locations as needed to evaluate remedy effectiveness, additional MNA parameters, mass and mass flux calculations, additional monitoring associated with injection treatments (if implemented), re-evaluation of natural attenuation processes and efficacy every 10 years, and demonstration that Site conditions remain protective of potential human and ecological receptors.

8.0 SUMMARY AND CONCLUSIONS

Semi-annual assessment monitoring events were conducted in March and August 2021. Statistical evaluations of the 2021 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. To address previously identified SSLs, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on September 30, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021 for review.

The Corrective Action Groundwater Monitoring Program was prepared to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

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

- Complete the installation, development, and sampling of two additional off-site delineation wells pending access agreement approval.
- Collect soil and groundwater samples for treatability studies using Site aquifer media and impacted groundwater prior to field implementation of a injection treatment pilot study.
- Conduct batch studies for reagents and doses.
- Conduct column studies for effectiveness.
- Prepare Class V UIC permit.
- Conduct the first semi-annual assessment monitoring event of 2022 and submit the semi-annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2022.

9.0 REFERENCES

- Alabama Department of Environmental Management (ADEM), 2017, Solid Waste Program, Division 13, ADEM Admin. Code r. 335-13-4.
- Anchor QEA, June 2019, Assessment of Corrective Measures Plant Greene County Ash Pond.
- Anchor QEA, June 2021, Semi-Annual Remedy Selection and Design Progress Report Plant Greene County Ash Pond.
- APC (Alabama Power Company), April 2020, Amended Closure Plan for Ash Pond Plant Greene County.
- Anchor QEA, September 2021, Remedy Selection Report Plant Greene County Ash Pond.
- Anchor QEA, December 2021, Corrective Action Groundwater Monitoring Program Plant Greene County Ash Pond.
- ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, www.astm.org.
- ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, www.astm.org.
- Dejarnette, S.S., Crownover, J.E., 1987, Geohydrology and Susceptibility of Major Aquifers to Surface Contamination in Alabama; Area 6, USGS Water-Resources Investigations Report 87-4113.
- McIntyre, M.R., Pashin, J.C., McKinney III, G.M., 2010, Report on Plant Geology prepared for SCS by the Geological Survey of Alabama.
- Sapp, D.C., Emplaincourt, J., 1975, Physiographic Regions of Alabama, Geological Survey of Alabama, Map 168.
- Wahl, K.D., 1966, Geology and Ground-Water Resources of Greene County, Alabama: Alabama Geol. Survey Bulletin 86.
- U.S. Environmental Protection Agency (EPA Waste Management Division, Office of Solid Waste, 1989, EPA 530/SW-89-031 Interim Final RCRA Investigation (RFI) Guidance, Volumes I and II.
- U.S. Environmental Protection Agency (EPA), 2004, Evaluation of Sampling and Field-Filtration Methods for the Analysis of Trace Metals In Groundwater Project Summary, EPA/600/SR-94/119.
- U.S. Environmental Protection Agency (EPA), 2009, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, EPA 530/R-09-007.
- USEPA. 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste

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Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81. April.

U.S. Environmental Protection Agency (EPA), 2004, Evaluation of Sampling and Field-Filtration Methods for the Analysis of Trace Metals In Groundwater Project Summary, EPA/600/SR-94/119.

Tables



**Table 1a. - Compliance Monitoring Well Network Details
Plant Greene County 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											
GC-AP-MW-23	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.60477	-87.77933	99.50	102.64	18.5	94.54	84.54	10	12/16/2015
GC-AP-MW-24	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.60365	-87.77959	102.94	106.05	23.2	93.25	83.25	10	5/6/2013
GC-AP-MW-26	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.59912	-87.75774	86.14	89.25	34.6	65.10	55.10	10	6/28/2016
GC-AP-MW-27	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.59599	-87.75459	87.82	90.68	37.9	63.22	53.22	10	6/29/2016
GC-AP-MW-28	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.59004	-87.75505	85.66	89.36	33.5	66.31	56.31	10	6/29/2016
GC-AP-MW-29	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.59621	-87.75721	86.63	89.32	34.7	65.04	55.04	10	6/29/2016
GC-AP-MW-30	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.5921	-87.76035	87.31	89.87	35.2	65.09	55.09	10	7/8/2016
GC-AP-MW-1	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60085	-87.78459	104.22	107.79	29.1	89.05	79.05	10	8/26/2015
GC-AP-MW-2	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60134	-87.78625	103.16	106.14	23.7	92.86	82.86	10	8/26/2015
GC-AP-MW-3	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60201	-87.78773	103.51	106.39	27.0	89.79	79.79	10	5/7/2013
GC-AP-MW-5	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60022	-87.79031	105.71	108.43	27.1	91.75	81.75	10	8/25/2015
GC-AP-MW-6	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59808	-87.79196	98.42	102.05	30.3	82.15	72.15	10	8/25/2015
GC-AP-MW-7	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59762	-87.79594	95.51	98.56	32.1	76.84	66.84	10	5/7/2013

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 WGS84 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 Greene County 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											
GC-AP-MW-8	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.5957	-87.79611	93.75	97.11	30.6	76.96	66.96	10	8/24/2015
GC-AP-MW-9	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59285	-87.79617	90.23	93.19	32.4	71.17	61.17	10	5/8/2013
GC-AP-MW-10	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58925	-87.79627	85.51	87.84	25.8	72.49	62.49	10	9/2/2015
GC-AP-MW-11	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.5864	-87.79555	97.51	101.18	38.4	73.20	63.20	10	4/23/2013
GC-AP-MW-12	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58445	-87.79248	100.09	103.26	36.9	76.76	66.76	10	8/24/2015
GC-AP-MW-13	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58513	-87.78813	97.43	101.18	28.7	82.87	72.87	10	4/24/2013
GC-AP-MW-14	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58669	-87.78413	83.31	85.61	22.9	73.16	63.16	10	8/24/2015
GC-AP-MW-15	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58736	-87.7812	89.49	91.69	41.0	61.06	51.06	10	8/27/2015
GC-AP-MW-16	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59005	-87.78138	106.16	108.79	48.8	70.38	60.38	10	8/21/2015
GC-AP-MW-17	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59246	-87.78138	103.60	106.40	49.8	66.96	56.96	10	8/27/2015
GC-AP-MW-18	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59444	-87.78135	102.02	105.04	48.1	67.31	57.31	10	8/21/2015
GC-AP-MW-21	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58533	-87.79409	102.10	105.72	40.5	75.60	65.60	10	12/14/2015
GC-AP-MW-25	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59819	-87.78512	101.94	104.98	37.2	78.20	68.20	10	6/28/2016

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 WGS84 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 Greene County 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											
GC-AP-MW-31	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59817	-87.8084	90.93	94.19	32.0	72.63	62.63	10	7/8/2016
GC-AP-MW-32	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60627	-87.80226	102.90	105.85	37.5	78.74	68.74	10	7/8/2016
GC-AP-MW-33	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60199	-87.80302	106.23	108.99	33.1	86.29	76.29	10	7/8/2016

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



**Table 1b. - Delineation Well Network Details
Plant Greene County 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											
GC-AP-PZ-4	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60376	-87.79013	100.47	103.53	27.6	86.33	76.33	10	5/7/2013
GC-AP-MW-34HA	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60464	-87.79202	105.35	108.38	25.6	93.22	83.22	10	1/9/2019
GC-AP-MW-35H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60459	-87.78307	99.54	102.64	23.9	84.14	79.14	5	12/21/2018
GC-AP-MW-36H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60065	-87.78112	103.18	105.17	30.3	80.24	75.24	10	1/10/2019
GC-AP-MW-37H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.59435	-87.78122	103.22	106.04	30.4	86.04	76.04	10	12/17/2018
GC-AP-MW-38H	Horizontal Delineation	Fill/Unit 1 Transition	32.59243	-87.78122	103.49	106.58	25.4	91.58	81.58	10	12/18/2018
GC-AP-MW-39H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58907	-87.7813	106.97	109.89	53.6	66.74	56.74	10	12/18/2018
GC-AP-MW-40H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58708	-87.78111	84.52	87.53	32.3	65.67	55.67	10	12/19/2018
GC-AP-MW-41H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58577	-87.78492	82.92	86.57	30.4	60.90	56.57	10	12/19/2018
GC-AP-MW-42H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.5885	-87.7966	84.86	87.56	24.9	73.06	63.06	10	12/20/2018
GC-AP-MW-43H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.59203	-87.79656	89.35	91.76	28.4	73.76	63.76	10	12/20/2018
GC-AP-MW-44H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60121	-87.79124	98.76	101.13	27.4	84.15	74.15	10	1/10/2019
GC-AP-MW-45H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58445	-87.78696	92.20	95.14	37.5	68.04	58.04	10	12/7/2019
GC-AP-MW-46HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58334	-87.79027	90.34	93.35	26.1	77.65	67.65	10	6/15/2020

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**Table 1b. - Delineation Well Network Details
Plant Greene County 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											
GC-AP-MW-47HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58235	-87.79416	90.39	93.86	27.4	76.91	66.91	10	5/13/2020
GC-AP-MW-48H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58372	-87.79546	86.99	90.11	22.2	73.27	68.27	5	12/6/2019
GC-AP-MW-49H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58564	-87.79653	88.86	91.71	27.2	74.91	64.91	10	12/6/2019
GC-AP-MW-50HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58655	-87.79744	85.31	88.92	33.9	65.42	55.42	10	5/13/2020
GC-AP-MW-52HO	Horizontal Delineation	Unit 1/Unit 2 Transition	32.59303	-87.79821	88.72	91.77	24.6	77.57	67.57	10	6/15/2020
GC-AP-MW-53H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.59994	-87.7906	99.45	102.31	17.5	90.18	85.18	5	12/5/2019
GC-AP-MW-54H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60025	-87.79062	99.81	102.94	16.9	91.42	86.42	5	12/5/2019
GC-AP-MW-55HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60621	-87.79351	110.83	114.37	43.5	81.27	71.27	10	5/15/2020
GC-AP-MW-57H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60037	-87.79102	97.65	100.43	15.6	90.28	85.28	5	12/9/2019
GC-AP-MW-59HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60094	-87.79252	97.72	101.69	27.8	84.29	74.29	10	5/14/2020
GC-AP-MW-60HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60349	-87.79613	105.31	108.47	32.3	86.62	76.62	10	6/1/2021
GC-AP-MW-61HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60065	-87.79649	106.64	109.69	31.5	88.63	78.63	10	6/2/2021
GC-AP-MW-62HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58155	-87.80027	86.94	89.89	28.9	71.39	61.39	10	6/3/2021

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**Table 1b. - Delineation Well Network Details
Plant Greene County 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											
GC-AP-MW-63HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.5802	-87.7989	87.67	91.08	27.4	74.05	64.05	10	6/2/2021
GC-AP-MW-64HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58277	-87.78861	92.55	95.65	46.9	59.14	49.14	10	6/3/2021

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 WGS84 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 Greene County 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											
GC-AP-PZ-19	Piezometer	Unit 2: Poorly Graded Sands with Gravel	32.59628	-87.78135	101.70	104.91	39.4	75.91	65.91	10	8/20/2015
GC-AP-PZ-22	Piezometer	Unit 2: Poorly Graded Sands with Gravel	32.60581	-87.77911	101.40	104.64	15.0	95.04	90.04	5	12/15/2015

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 WGS84 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 Greene County 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											
GC-AP-MW-56H	Abandoned	Unit 2: Poorly Graded Sands with Gravel	32.60631	-87.79184	102.25	105.24	24.5	86.19	81.19	5	12/8/2019

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 WGS84 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 Greene County Ash Pond

03/08/2021 - 08/27/2021

Appendix III Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-40.6	mg/L
Chloride	SM4500Cl E	1-10	mg/L
Fluoride	SM4500F G 2017	0.1	mg/L
pH (Field)	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	1-64	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	0.000203	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
Combined Radium 226 + 228	Total Radium Calculation	NA	pCi/L
Fluoride	SM4500F G 2017	0.1	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.019999-0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.8	0.000203	mg/L
Selenium	EPA 200.8	0.001015	mg/L
Thallium	EPA 200.8	0.000203	mg/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.
Recent Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)								
		3/25/2019	9/9/2019	4/20/2020	5/28/2020	6/30/2020	8/10/2020	3/8/2021	6/28/2021	8/16/2021
GC-AP-MW-1	107.79	91.46	90.65	92.01	91.76	90.85	91.15	89.44	90.35	90.01
GC-AP-MW-2	106.14	99.67	97.66	99.01	98.35	97.40	94.66	92.74	93.33	92.69
GC-AP-MW-3	106.39	99.26	97.70	98.80	98.14	97.13	94.16	92.78	93.43	92.80
GC-AP-PZ-4	103.53	94.86	92.34	94.70	93.63	92.55	91.74	91.58	92.25	91.37
GC-AP-MW-5	108.43	99.21	96.17	98.25	96.78	96.27	93.68	94.31	94.24	93.04
GC-AP-MW-6	102.05	97.12	95.50	96.95	96.24	95.41	90.37	91.63	91.16	90.31
GC-AP-MW-7	98.56	90.75	89.00	90.46	88.94	87.77	86.56	87.95	87.54	86.54
GC-AP-MW-8	97.11	88.95	87.58	89.00	87.59	86.47	85.64	86.61	86.14	85.13
GC-AP-MW-9	93.19	88.02	86.24	87.57	86.10	84.98	83.71	85.01	84.51	83.43
GC-AP-MW-10	87.84	83.27	81.58	83.99	83.19	81.90	80.62	82.54	82.04	80.78
GC-AP-MW-11	101.18	85.01	82.34	85.33	84.13	82.94	82.13	83.43	83.33	82.01
GC-AP-MW-12	103.26	84.87	81.18	85.40	81.87	81.05	81.21	82.96	81.85	81.26
GC-AP-MW-13	101.18	81.88	77.68	83.68	78.31	Dry	76.97	80.98	80.67	77.67
GC-AP-MW-14	85.61	79.53	75.82	83.81	77.88	76.55	75.28	78.61	79.30	76.57
GC-AP-MW-15	91.69	76.55	74.16	82.89	76.01	75.26	74.10	77.17	77.25	75.49
GC-AP-MW-16	108.79	77.15	74.54	83.18	76.41	75.74	74.59	77.49	77.62	75.77
GC-AP-MW-17	106.40	76.73	74.07	84.31	77.73	76.77	75.54	77.95	77.99	76.91
GC-AP-MW-18	105.04	77.61	75.43	83.94	77.19	75.48	75.08	77.58	77.48	76.56
GC-AP-PZ-19	104.91	77.09	75.16	83.09	76.51	104.91	75.22	77.76	77.82	76.10
GC-AP-MW-21	105.72	82.62	78.33	85.68	82.42	81.66	81.08	83.27	82.16	81.56
GC-AP-PZ-22	104.64	--	--	90.29	90.31	Dry	88.92	Dry	Dry	88.66
GC-AP-MW-23	102.64	93.01	91.86	89.99	89.78	89.51	89.04	88.44	89.16	88.66
GC-AP-MW-24	106.05	87.93	86.86	89.58	89.29	89.09	88.65	87.73	88.47	88.14
GC-AP-MW-25	104.98	84.76	82.29	99.30	97.88	97.12	96.38	92.08	92.81	91.67
GC-AP-MW-26	89.25	83.84	79.48	86.10	85.13	82.09	80.80	83.78	83.16	82.59
GC-AP-MW-27	90.68	81.79	77.74	84.59	83.55	81.91	80.57	83.09	82.86	82.25
GC-AP-MW-28	89.36	82.96	79.11	84.01	82.56	80.75	79.54	81.71	81.80	80.77
GC-AP-MW-29	89.32	88.18	84.20	85.75	84.42	81.95	80.77	83.29	82.91	82.18
GC-AP-MW-30	89.87	97.82	95.41	83.58	82.76	81.14	80.14	82.11	82.08	81.20
GC-AP-MW-31	94.19	102.50	99.15	90.34	86.81	86.02	84.56	87.86	87.11	85.59
GC-AP-MW-32	105.85	92.13	91.41	90.18	90.05	89.41	89.27	88.67	89.41	86.09
GC-AP-MW-33	108.99	85.74	84.38	90.84	90.45	89.93	89.40	89.07	89.80	92.12

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured



**Table 3.
Recent Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)								
		3/25/2019	9/9/2019	4/20/2020	5/28/2020	6/30/2020	8/10/2020	3/8/2021	6/28/2021	8/16/2021
GC-AP-MW-34HA	108.38	--	86.26	88.38	88.32	87.92	87.41	85.89	87.03	86.63
GC-AP-MW-35H	102.64	--	80.56	84.17	81.38	Dry	80.70	81.10	82.05	80.68
GC-AP-MW-36H	105.17	--	78.64	83.84	79.42	79.08	78.81	80.82	80.74	79.12
GC-AP-MW-37H	106.04	--	76.95	84.94	79.91	79.32	77.07	80.28	82.63	80.96
GC-AP-MW-38H	106.58	--	86.98	87.48	87.26	87.60	86.84	87.14	87.39	86.79
GC-AP-MW-39H	109.89	--	74.41	82.94	76.08	75.43	74.29	77.02	77.11	75.56
GC-AP-MW-40H	87.53	--	74.08	82.77	75.90	75.17	74.00	77.09	77.16	75.40
GC-AP-MW-41H	86.57	--	74.09	82.94	76.10	74.11	73.98	76.61	76.33	75.77
GC-AP-MW-42H	87.56	--	81.15	84.01	83.03	82.00	80.78	82.45	82.07	80.92
GC-AP-MW-43H	91.76	--	85.86	87.17	85.86	84.60	83.50	84.90	84.37	83.32
GC-AP-MW-44H	101.13	--	93.79	97.30	96.63	94.17	92.70	94.32	93.79	92.38
GC-AP-MW-45H	95.14	--	--	82.62	75.87	75.33	74.32	82.64	77.73	75.53
GC-AP-MW-46HO	93.35	--	--	--	--	75.48	74.76	78.16	78.24	75.56
GC-AP-MW-47HO	93.86	--	--	--	80.54	78.71	77.48	78.56	79.22	77.78
GC-AP-MW-48H	90.11	--	--	86.55	84.11	82.43	81.35	82.32	82.65	81.45
GC-AP-MW-49H	91.71	--	--	85.33	84.08	82.79	82.08	82.83	83.07	81.95
GC-AP-MW-50HO	88.92	--	--	--	81.98	81.19	80.51	81.50	81.36	80.58
GC-AP-MW-52HO	91.77	--	--	--	--	84.71	83.65	85.36	84.90	83.75
GC-AP-MW-53H	102.31	--	--	97.04	96.29	95.07	93.12	94.25	93.78	92.82
GC-AP-MW-54H	102.94	--	--	97.48	96.31	95.01	93.20	94.54	93.96	92.75
GC-AP-MW-55H0	114.37	--	--	--	84.31	83.58	83.03	82.76	81.31	82.69
GC-AP-MW-57H	100.43	--	--	97.08	96.02	92.50	92.91	94.23	93.74	92.63
GC-AP-MW-59HO	101.69	--	--	--	93.61	93.05	92.36	91.87	92.47	91.86
GC-AP-MW-60HO	108.47	--	--	--	--	--	--	--	88.31	88.05
GC-AP-MW-61HO	109.69	--	--	--	--	--	--	--	91.40	90.93
GC-AP-MW-62HO	89.89	--	--	--	--	--	--	--	83.31	81.39
GC-AP-MW-63HO	91.08	--	--	--	--	--	--	--	83.33	81.74
GC-AP-MW-64HO	95.65	--	--	--	--	--	--	--	78.44	76.10

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Greene County Ash Pond
08/16/2021 - 08/25/2021

GC-AP-MW-15				
Sample Date = 8/25/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.83	0.829	0.12%
Calcium	mg/L	74.8	73.2	2.16%
Chloride	mg/L	10.3	10.2	0.98%
Fluoride	mg/L	0.167	0.168	0.60%
Sulfate	mg/L	153	152	0.66%
TDS	mg/L	407	403	0.99%
Arsenic	mg/L	0.00046	0.00042	9.01%
Barium	mg/L	0.0402	0.0385	4.32%
Cobalt	mg/L	0.0181	0.0194	6.93%
Lithium	mg/L	0.622	0.622	0.00%
GC-AP-MW-24				
Sample Date = 8/24/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	36.5	36.2	0.83%
Chloride	mg/L	3.42	3.45	0.87%
Sulfate	mg/L	81.8	83.3	1.82%
TDS	mg/L	167	168	0.60%
Arsenic	mg/L	0.00024	0.00022	8.99%
Barium	mg/L	0.07	0.0695	0.72%
Cobalt	mg/L	0.00073	0.0007	4.48%
GC-AP-MW-32				
Sample Date = 8/23/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	2.16	2.15	0.46%
Chloride	mg/L	5.61	5.55	1.08%
Sulfate	mg/L	9.18	9.3	1.30%
TDS	mg/L	64.7	59.3	8.71%
Barium	mg/L	0.0764	0.0781	2.20%
Cobalt	mg/L	0.00105	0.00101	3.88%
GC-AP-MW-33				
Sample Date = 8/23/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	9.48	9.53	0.53%
Chloride	mg/L	4.33	4.38	1.15%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Greene County Ash Pond
08/16/2021 - 08/25/2021

GC-AP-MW-33				
Sample Date = 8/23/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Sulfate	mg/L	2.44	2	19.82%
TDS	mg/L	48.7	50.7	4.02%
Barium	mg/L	0.0141	0.0146	3.48%
GC-AP-MW-48H				
Sample Date = 8/18/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.131	0.131	0.00%
Calcium	mg/L	17.9	18	0.56%
Chloride	mg/L	4.07	4.28	5.03%
Sulfate	mg/L	47	49.4	4.98%
TDS	mg/L	121	124	2.45%
Arsenic	mg/L	0.00025	0.00022	9.77%
Barium	mg/L	0.0239	0.0244	2.07%
Cobalt	mg/L	0.0004	0.0004	0.25%
Lithium	mg/L	0.0821	0.0822	0.12%
GC-AP-MW-46HO				
Sample Date = 8/17/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.392	0.391	0.26%
Calcium	mg/L	55	54.2	1.47%
Chloride	mg/L	7.84	7.75	1.16%
Fluoride	mg/L	0.177	0.169	4.62%
Sulfate	mg/L	115	111	3.54%
TDS	mg/L	303	303	0.00%
Arsenic	mg/L	0.00027	0.00026	2.64%
Barium	mg/L	0.0563	0.0578	2.63%
Cobalt	mg/L	0.00295	0.00293	0.68%
Lithium	mg/L	0.112	0.114	1.77%
Molybdenum	mg/L	0.0555	0.0556	0.18%
GC-AP-MW-61HO				
Sample Date = 8/17/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	35.7	36	0.84%
Chloride	mg/L	3.13	3.08	1.61%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Greene County Ash Pond
08/16/2021 - 08/25/2021

GC-AP-MW-61HO				
Sample Date = 8/17/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Fluoride	mg/L	0.142	0.141	0.71%
Sulfate	mg/L	13	12.9	0.77%
TDS	mg/L	107	113	5.46%
Arsenic	mg/L	0.00039	0.00036	8.19%
Barium	mg/L	0.0383	0.0383	0.00%
Cobalt	mg/L	0.00049	0.0005	1.01%
Molybdenum	mg/L	0.00151	0.00151	0.00%
GC-AP-MW-52HO				
Sample Date = 8/16/2021				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	1.35	1.35	0.00%
Calcium	mg/L	61.7	65	5.21%
Chloride	mg/L	60.9	60.4	0.82%
Sulfate	mg/L	42.2	41.8	0.95%
TDS	mg/L	423	390	8.12%
Barium	mg/L	0.129	0.129	0.00%
Cadmium	mg/L	0.00022	0.00022	0.90%
Cobalt	mg/L	0.0146	0.0142	2.78%

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 Greene County Ash Pond
08/16/2021 - 08/25/2021

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
08/17/2021	FB-1	Arsenic	9E-05 J	mg/L	7E-05
08/25/2021	EB-1	Chromium	0.00029 J	mg/L	0.0002
08/23/2021	FB-5	Chromium	0.00024 J	mg/L	0.0002
08/17/2021	FB-1	Chromium	0.00029 J	mg/L	0.0002
08/17/2021	EB-1	Chromium	0.00031 J	mg/L	0.0002
08/17/2021	EB-1	Chromium	0.00029 J	mg/L	0.0002
08/17/2021	FB-1	Chromium	0.0003 J	mg/L	0.0002
08/16/2021	EB-1	Chromium	0.00027 J	mg/L	0.0002
08/16/2021	FB-1	Chromium	0.00029 J	mg/L	0.0002

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 4c – Field QC: Data Validation Results (Blanks)

Plant Greene County Ash Pond

08/16/2021 - 08/25/2021

List of Compliance Sample Concentrations < 5x Blank Concentrations							
Sample Date	QC Sample	Parameter	QC Sample Result (5x)	Sample Location	Result	Units	Validation Flag
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-46HO	0.00028 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-64HO	0.00086 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-63HO	0.00035 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-60HO	0.00065 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-61HO	0.00057 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-55HO	0.00064 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-47HO	0.00039 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-62HO	0.00067 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-59HO	0.00057 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-5	0.00027 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-57H	0.00029 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-34HA	0.0003 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-44H	0.0003 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-32	0.00038 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-54H	0.00039 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-31	0.00042 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-53H	0.00046 J	mg/L	+(U)*
08/23/2021	FB-5	Chromium	0.00119	GC-AP-MW-33	0.0005 J	mg/L	+(U)*
08/25/2021	EB-1	Chromium	0.00146	GC-AP-MW-21	0.00027 J	mg/L	+(U)*
08/25/2021	EB-1	Chromium	0.00146	GC-AP-MW-12	0.00035 J	mg/L	+(U)*
08/25/2021	EB-1	Chromium	0.00146	GC-AP-MW-41H	0.00039 J	mg/L	+(U)*
08/25/2021	EB-1	Chromium	0.00146	GC-AP-MW-40H	0.00023 J	mg/L	+(U)*
08/25/2021	EB-1	Chromium	0.00146	GC-AP-MW-14	0.00023 J	mg/L	+(U)*
08/25/2021	EB-1	Chromium	0.00146	GC-AP-MW-13	0.00026 J	mg/L	+(U)*
08/25/2021	EB-1	Chromium	0.00146	GC-AP-MW-11	0.00027 J	mg/L	+(U)*
08/25/2021	EB-1	Chromium	0.00146	GC-AP-MW-15	0.00027 J	mg/L	+(U)*
08/16/2021	EB-1	Chromium	0.00135	GC-AP-MW-52HO	0.00038 J	mg/L	+(U)*
08/17/2021	FB-1	Arsenic	0.00045	GC-AP-MW-50HO	0.00032 v	mg/L	+(U)*

Notes:

1. Lab qualifiers have been appended to result when applicable
2. QC Sample listed represents the source of comparison, validation flag.
3. Only Appendix 4 Constituents were compared and validated. Radium data was not



Table 4c – Field QC: Data Validation Results (Blanks)

Plant Greene County Ash Pond

08/16/2021 - 08/25/2021

List of Compliance Sample Concentrations < 5x Blank Concentrations

Sample Date	QC Sample	Parameter	QC Sample Result (5x)	Sample Location	Result	Units	Validation Flag
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-3	0.00032 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-PZ-4	0.00033 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-1	0.00034 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-16	0.0004 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-17	0.00022 J	mg/L	+(U)*
08/17/2021	EB-1	Chromium	0.00154	GC-AP-MW-18	0.00023 J	mg/L	+(U)*

Notes:

1. Lab qualifiers have been appended to result when applicable
2. QC Sample listed represents the source of comparison, validation flag.
3. Only Appendix 4 Constituents were compared and validated. Radium data was not



Table 5. Summary of Background Levels and Groundwater Protection Standards

Plant Greene County Ash Pond

Appendix IV Analytes			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium 226 + 228	pCi/L	3.88	5
Fluoride	mg/L	0.31	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.05	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002

- 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 Summary
Plant Greene County Ash Pond
3/8/2021-3/18/2021 (First Semi-Annual); 6/29/2021 (Delineation Event)

Analyte	Units	GC-AP-MW-23	GC-AP-MW-24	GC-AP-MW-26	GC-AP-MW-27	GC-AP-MW-28	GC-AP-MW-29	GC-AP-MW-30	GC-AP-MW-1	GC-AP-MW-2
		03/10/2021	03/10/2021	03/15/2021	03/15/2021	03/15/2021	03/15/2021	03/15/2021	03/15/2021	03/16/2021
Appendix III										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.313	0.134
Calcium	mg/L	26.6	42.8	4.67	0.745	1.73	0.239 J	0.646	109	145
Chloride	mg/L	1.3	3.51	2.83	2.46	1.27	1.25	4.38	16.6	11.6
Fluoride	mg/L	0.085 J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.129	0.185
pH_Field	SU	6.17	5.14	5.32	4.73	4.45	4.79	5.02	5.67	5.87
Sulfate	mg/L	11.8	99.9	7.66	2.5	10.4	<0.5	<0.5	933	548
TDS	mg/L	105	179	42.7	30.7	30	--	30	1620	890
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	<6.8e-005	0.00045	0.000125 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.0238	0.0045
Barium	mg/L	0.0305	0.0873	0.0351	0.069	0.222	0.0545	0.0462	0.024	0.033
Beryllium	mg/L	<0.000406	<0.000406	0.000453 J	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.0001 J	0.000536	0.000204	8.19e-005 J	<6.8e-005	0.00013 J
Chromium	mg/L	0.000432 J	0.000433 J	0.000474 J	0.000541 J	0.000995 J	0.000393 J	0.000502 J	0.000341 J	0.0004 J
Cobalt	mg/L	<6.8e-005	0.000676	0.000606	0.000139 J	0.000452	0.00145	0.000137 J	0.257	0.0272
Combined Radium 226 + 228	pCi/L	1.01 U	2.15	0.347 U	0.578 U	1.5	0.618 U	0.601 U	1.45	1.05 U
Lead	mg/L	<6.8e-005	<6.8e-005	6.99e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000736
Lithium	mg/L	<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
Molybdenum	mg/L	0.000179 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000117 J	8.04e-005 J
Selenium	mg/L	0.00117	0.00139	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	0.00163	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000107 J	0.000101 J

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
3/8/2021-3/18/2021 (First Semi-Annual); 6/29/2021 (Delineation Event)

Analyte	Units	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9	GC-AP-MW-10	GC-AP-MW-11
		03/16/2021	03/16/2021	03/09/2021	03/09/2021	03/09/2021	03/09/2021	03/15/2021	03/10/2021
Appendix III									
Boron	mg/L	0.0445 J	0.694	1.49	0.397	1.57	1.12	1.79	0.502
Calcium	mg/L	66.6	99.7	119	160	100	82.1	73.8	39.9
Chloride	mg/L	24.4	10.9	47.5	80.7	106	53.9	23.2	17.1
Fluoride	mg/L	0.23	0.282	0.17	0.0949 J	0.109	0.147	0.324	0.0749 J
pH_Field	SU	6.23	6.64	6.43	6.45	6.31	6.14	6.29	5.97
Sulfate	mg/L	7.62	167	187	347	71.7	107	68.5	73.2
TDS	mg/L	340	510	716	1090	746	532	406	274
Appendix IV									
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.0112	0.473	0.000303	0.00015 J	0.000248	0.0105	0.0125	0.00317
Barium	mg/L	0.159	0.143	0.0664	0.083	0.15	0.16	0.261	0.0637
Beryllium	mg/L	<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	0.00278	<6.8e-005	0.000241	<6.8e-005	<6.8e-005	0.000347
Chromium	mg/L	0.000347 J	0.000285 J	0.000347 J	0.000351 J	0.000346 J	0.000381 J	0.000357 J	<0.000203
Cobalt	mg/L	0.00076	0.00857	0.00367	0.00181	0.00707	0.0247	0.0475	0.0197
Combined Radium 226 + 228	pCi/L	0.553 U	1.71	1.12 U	0.545 U	1.6	1.16 U	1.12 U	0.666 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	7.84e-005 J	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	0.149	0.013 J	<0.007105	0.0249	0.0417	0.155	0.0826
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<6.8e-005	0.00358	0.0024	0.000156 J	8.12e-005 J	<6.8e-005	0.0103	0.00701
Selenium	mg/L	0.000959 J	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	8.7e-005 J

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
3/8/2021-3/18/2021 (First Semi-Annual); 6/29/2021 (Delineation Event)

Analyte	Units	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-21	GC-AP-MW-25
		03/10/2021	03/15/2021	03/09/2021	03/10/2021	03/09/2021	03/09/2021	03/09/2021	03/10/2021	03/10/2021
Appendix III										
Boron	mg/L	0.389	0.523	1.81	0.825	1.94	2.45	1.52	0.528	0.146
Calcium	mg/L	55.1	68.9	115	67.4	101	118	82	44.9	29.3
Chloride	mg/L	9.3	7.68	10.4	11.9	12	14.3	25.2	20.4	25.3
Fluoride	mg/L	0.161	0.0737 J	0.263	0.115	0.286	0.628	0.205	0.113	0.104
pH_Field	SU	6.89	6	6.48	6.08	6.29	6.52	6.39	6.26	5.71
Sulfate	mg/L	155	204	165	136	43.9	95.8	11.6	51.7	70.3
TDS	mg/L	331	374	618	397	524	684	412	296	246
Appendix IV										
Antimony	mg/L	<0.000507	0.0016	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.000251	0.00207	0.0292	0.000349	0.113	0.86	0.0505	0.000216	0.00033
Barium	mg/L	0.0373	0.0699	0.125	0.0365	0.102	0.352	0.0849	0.111	0.0797
Beryllium	mg/L	<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	0.00012 J	<6.8e-005	<6.8e-005	<6.8e-005	7.02e-005 J	<6.8e-005
Chromium	mg/L	0.000224 J	0.000311 J	0.000357 J	0.000301 J	0.000444 J	0.000216 J	0.000346 J	0.000333 J	0.0003 J
Cobalt	mg/L	0.00118	0.000312	0.0302	0.0189	0.0162	0.0151	0.017	0.00204	0.0115
Combined Radium 226 + 228	pCi/L	0.481 U	0.537 U	1.28 U	0.335 U	1.2 U	2.27	1.11 U	0.418 U	1.03 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000109 J	<6.8e-005	<6.8e-005	<6.8e-005	8.84e-005 J
Lithium	mg/L	0.125	0.308	0.791	0.63	0.692	0.864	0.364	0.146	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0611	0.0146	0.0205	<6.8e-005	0.000113 J	0.067	0.000362	0.0123	8.43e-005 J
Selenium	mg/L	<0.000507	0.0175	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	<6.8e-005	0.000506	<6.8e-005	8.78e-005 J	0.000369	<6.8e-005	<6.8e-005	0.000106 J	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
3/8/2021-3/18/2021 (First Semi-Annual); 6/29/2021 (Delineation Event)

Analyte	Units	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-PZ-4	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H
		03/15/2021	03/15/2021	03/15/2021	03/10/2021	03/15/2021	03/16/2021	03/09/2021	03/16/2021	03/10/2021
Appendix III										
Boron	mg/L	<0.03	<0.03	<0.03	0.338	<0.03	<0.03	0.159	0.159	0.104
Calcium	mg/L	5.9	2.02	9.77	157	12.6	24.9	0.99	148	96.2
Chloride	mg/L	5.47	5.57	4.18	8.48	5.81	1.91	2.9	13	2.3
Fluoride	mg/L	<0.06	<0.06	<0.06	0.118	<0.06	0.0841 J	0.365	0.263	0.131
pH_Field	SU	5.61	4.57	5.83	6.04	5.32	6.16	7.79	6.32	6.67
Sulfate	mg/L	3.74	8.5	2.76	510	25.6	32.4	10.4	368	44.8
TDS	mg/L	49.3	46	48	876	96	111	185	756	308
Appendix IV										
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.000111 J	0.000142 J	<6.8e-005	0.00597	0.000158 J	0.0001 J	0.00291	0.00685	<6.8e-005
Barium	mg/L	0.0316	0.0692	0.0144	0.0759	0.0532	0.04	0.00297	0.0347	0.0719
Beryllium	mg/L	<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
Chromium	mg/L	0.000468 J	0.000431 J	0.000679 J	0.000247 J	0.000473 J	0.000912 J	0.00143	0.000381 J	0.000421 J
Cobalt	mg/L	0.000624	0.000908	<6.8e-005	0.167	0.00198	<6.8e-005	0.000522	0.0225	0.000455
Combined Radium 226 + 228	pCi/L	0.817 U	1.11 U	0.771 U	1.36 U	0.858 U	0.536 U	0.296 U	0.954 U	0.566 U
Lead	mg/L	<6.8e-005	0.000121 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000447	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0107 J	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	7.41e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000166 J	0.000373	0.000699
Selenium	mg/L	<0.000507	<0.000507	<0.000507	0.0013	0.000704 J	0.00362	<0.000507	<0.000507	0.0124
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	7.61e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
3/8/2021-3/18/2021 (First Semi-Annual); 6/29/2021 (Delineation Event)

Analyte	Units	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO
		03/09/2021	03/10/2021	03/15/2021	03/09/2021	03/09/2021	03/10/2021	03/10/2021	03/08/2021
Appendix III									
Boron	mg/L	1.81	0.807	0.659	1.26	1.14	0.218	0.625	0.658
Calcium	mg/L	108	109	70.4	69.5	102	159	39.3	47.1
Chloride	mg/L	8.06	6.74	15.9	18.4	41.6	11.9	6.5	8.51
Fluoride	mg/L	0.458	0.112	0.0721 J	0.0697 J	0.135	0.0611 J	0.176	0.187
pH_Field	SU	6.47	5.99	6.43	6.29	6.47	6.14	6.83	6.86
Sulfate	mg/L	32.2	292	80.9	74.8	91.3	410	90.9	96.1
TDS	mg/L	524	602	321	375	570	794	247	282
Appendix IV									
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.0697	0.000443	0.00174	0.00343	0.0117	0.00172	0.00147	0.000339
Barium	mg/L	0.206	0.0322	0.116	0.135	0.211	0.064	0.0543	0.0523
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	0.000171 J	<6.8e-005	0.000682	<6.8e-005	0.000411	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000342 J	0.000226 J	0.000553 J	0.000286 J	0.000227 J	0.000428 J	0.000314 J	<0.000203
Cobalt	mg/L	0.0178	0.00791	0.00472	0.0559	0.0175	0.415	0.00442	0.00155
Combined Radium 226 + 228	pCi/L	1.62	0.522 U	0.946 U	0.618 U	1.54	0.923 U	0.21 U	0.291 U
Lead	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
Lithium	mg/L	0.474	0.772	0.0459	0.0172 J	0.448	<0.007105	0.194	0.0991
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0047	<6.8e-005	0.000131 J	0.000315	0.0026	0.000171 J	0.0852	0.0761
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Thallium	mg/L	0.000828	0.000186 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000103 J	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
3/8/2021-3/18/2021 (First Semi-Annual); 6/29/2021 (Delineation Event)

Analyte	Units	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO
		03/08/2021	03/10/2021	03/10/2021	03/08/2021	03/08/2021	03/10/2021	03/10/2021	03/09/2021
Appendix III									
Boron	mg/L	0.0769 J	0.188	0.224	0.302	1.25	0.338	0.53	0.0397 J
Calcium	mg/L	12.9	22.1	27.3	32.7	63.3	80.8	92.8	2.62
Chloride	mg/L	8.78	8.31	7.57	13.7	90	19.4	11.5	5.06
Fluoride	mg/L	<0.06	<0.06	<0.06	0.127	0.0628 J	0.135	0.25	<0.06
pH_Field	SU	5.74	6.35	6.14	6.36	5.98	6.58	6.87	5.13
Sulfate	mg/L	31.4	62	76.1	71.5	56.9	44.2	139	9.2
TDS	mg/L	93.3	158	181	218	469	408	444	52
Appendix IV									
Antimony	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
Arsenic	mg/L	0.000152 J	0.000557	0.000592	0.000267	0.00027	0.213	0.45	0.00013 J
Barium	mg/L	0.0229	0.0281	0.0406	0.0685	0.131	0.393	0.19	0.0404
Beryllium	mg/L	<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	0.00017 J	0.000287	0.000227	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.000203	0.00026 J	0.000366 J	0.00028 J	<0.000203	0.000474 J	0.000574 J	0.000619 J
Cobalt	mg/L	<6.8e-005	0.000388	0.00662	0.00553	0.0153	0.0204	0.0239	0.000738
Combined Radium 226 + 228	pCi/L	0.568 U	0.57 U	0.261 U	1 U	2.06	1.29 U	1.41	1.02 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000122 J	<6.8e-005	<6.8e-005	9.49e-005 J	8.75e-005 J
Lithium	mg/L	0.0456	0.102	0.0681	0.119	<0.007105	<0.007105	0.0906	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<6.8e-005	0.000144 J	0.000173 J	<6.8e-005	<6.8e-005	0.00131	0.00289	<6.8e-005
Selenium	mg/L	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507	<0.000507
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

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 6.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
3/8/2021-3/18/2021 (First Semi-Annual); 6/29/2021 (Delineation Event)

Analyte	Units	GC-AP-MW-57H	GC-AP-MW-59HO	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO
		03/10/2021	03/09/2021	06/29/2021	06/29/2021	06/29/2021	06/29/2021	06/29/2021
Appendix III								
Boron	mg/L	0.126	0.192	<0.03	<0.03	<0.03	0.0343 J	0.527
Calcium	mg/L	29	60.5	3.94	47	33.5	9.43	51.5
Chloride	mg/L	55.3	10.4	4.5	2.83	3.4	2.92	8.53
Fluoride	mg/L	0.112	0.0715 J	<0.06	0.119	0.0632 J	<0.06	0.238
pH_Field	SU	5.96	5.94	5.27	7.1	7.04	5.69	6.97
Sulfate	mg/L	66.5	202	7.67	12.3	16.4	20.6	110
TDS	mg/L	273	386	32.7	124	101	49.3	278
Appendix IV								
Antimony	mg/L	<0.000507	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.0196	0.00103	<6.8e-005	0.000518	0.000301	0.000106 J	0.000649
Barium	mg/L	0.103	0.0795	0.0372	0.0484	0.0553	0.0594	0.0778
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	7.08e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	0.000109 J	<6.8e-005
Chromium	mg/L	0.000271 J	0.000256 J	0.000694 J	0.000965 J	0.00062 J	0.000352 J	0.000807 J
Cobalt	mg/L	0.0345	0.0263	0.00108	0.000587	0.000376	0.000907	0.00376
Combined Radium 226 + 228	pCi/L	1.25 U	1.6	0.765 U	0.564 U	0.648 U	0.307 U	0.87 U
Lead	mg/L	<6.8e-005	<6.8e-005	0.000121 J	0.000224	0.000152 J	<6.8e-005	0.000281
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.128
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000369	0.000127 J	9.82e-005 J	0.00245	0.00136	0.000232	0.0675
Selenium	mg/L	<0.000507	0.000652 J	0.00135	0.000905 J	<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

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids
5. Additional delineation occurred off-site in June 2021.



Table 7.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
8/16/2021-8/27/2021

Analyte	Units	GC-AP-MW-23	GC-AP-MW-24	GC-AP-MW-26	GC-AP-MW-27	GC-AP-MW-28	GC-AP-MW-29	GC-AP-MW-30	GC-AP-MW-1	GC-AP-MW-2
		08/24/2021	08/24/2021	08/18/2021	08/18/2021	08/18/2021	08/18/2021	08/18/2021	08/18/2021	08/17/2021
Appendix III										
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.281	0.131
Calcium	mg/L	26.3	36.2	4.84	1.11	1.94	0.283 J	0.716	103	143
Chloride	mg/L	1.19	3.42	2.97	2.45	1.42	1.42	4.46	34.4	12.7
Fluoride	mg/L	0.0713 J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.158	0.0974 J
pH_Field	SU	6.09	5.16	5.25	4.52	3.78	3.94	4.01	5.49	5.99
Sulfate	mg/L	11.6	81.8	7.07	3.18	10.1	0.86 J	0.754 J	745	502
TDS	mg/L	96.7	167	43.3	28.7	32	--	28.7	1340	808
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	7.36e-005 J	0.000223	0.000157 J	<6.8e-005	9.03e-005 J	9.45e-005 J	<6.8e-005	0.0206	0.00514
Barium	mg/L	0.0311	0.07	0.0311	0.0607	0.198	0.0554	0.0329	0.0211	0.0347
Beryllium	mg/L	<0.000406	<0.000406	0.000409 J	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000184 J	0.000421	0.000193 J	8.39e-005 J	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000426 J	0.000426 J	0.000225 J	0.000321 J	0.000708 J	0.000256 J	0.000326 J	0.000336 J	0.00267
Cobalt	mg/L	<6.8e-005	0.000731	0.000669	0.00016 J	0.000362	0.0019	0.000112 J	0.24	0.0296
Combined Radium 226 + 228	pCi/L	0.735 U	1.23	0.327 U	0.941 U	0.779 U	0.937 U	1.22 U	1.36	2.01
Lead	mg/L	<6.8e-005	<6.8e-005	6.96e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000591
Lithium	mg/L	<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
Molybdenum	mg/L	0.000167 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00017 J
Selenium	mg/L	0.00113	0.000957 J	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	0.00209	0.000542 J
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000124 J	0.000132 J

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 7.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
8/16/2021-8/27/2021

Analyte	Units	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9	GC-AP-MW-10	GC-AP-MW-11
		08/17/2021	08/23/2021	08/24/2021	08/24/2021	08/24/2021	08/24/2021	08/24/2021	08/25/2021
Appendix III									
Boron	mg/L	0.0518 J	0.628	1.36	0.216	1.23	1.14	1.93	0.601
Calcium	mg/L	55.4	87.6	129	123	86.4	93.1	83.4	57.6
Chloride	mg/L	21.3	11.6	56.6	91.7	90.8	90.7	22.4	14.4
Fluoride	mg/L	0.184	0.322	0.161	0.1	0.141	0.164	0.277	0.135
pH_Field	SU	6.13	6.5	6.22	6.4	6.16	6.08	6.04	6.38
Sulfate	mg/L	12	155	210	234	71.4	139	71.6	126
TDS	mg/L	297	481	792	930	690	624	423	358
Appendix IV									
Antimony	mg/L	<0.000508	<0.000508	<0.000508	0.000747 J	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.0119	0.368	0.000279	9.91e-005 J	0.000271	0.00695	0.0129	0.00518
Barium	mg/L	0.15	0.139	0.0737	0.0782	0.122	0.168	0.287	0.104
Beryllium	mg/L	<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	0.000181 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000324 J	0.000272 J	0.000262 J	0.000363 J	0.000313 J	0.000302 J	0.000356 J	0.000267 J
Cobalt	mg/L	0.000388	0.00645	0.00419	0.00333	0.00898	0.0323	0.0514	0.0507
Combined Radium 226 + 228	pCi/L	1.09	2.11	0.645 U	0.865 U	1.67	1.43	1.45	0.729 U
Lead	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
Lithium	mg/L	<0.007105	0.116	0.00951 J	<0.007105	0.0155 J	0.0383	0.198	0.132
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<6.8e-005	0.0031	0.00211	0.000128 J	<6.8e-005	<6.8e-005	0.0132	0.0106
Selenium	mg/L	0.000974 J	<0.000508	<0.000508	<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	9.4e-005 J

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. TDS - Total Dissolved Solids



Table 7.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
8/16/2021-8/27/2021

Analyte	Units	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-21	GC-AP-MW-25
		08/25/2021	08/25/2021	08/25/2021	08/25/2021	08/17/2021	08/17/2021	08/17/2021	08/25/2021	08/24/2021
Appendix III										
Boron	mg/L	0.393	0.438	1.33	0.83	1.98	2.18	1.45	0.288	0.115
Calcium	mg/L	45.2	74.2	134	73.2	103	78.3	77.4	31	25.9
Chloride	mg/L	7.43	6.37	11.5	10.3	10.4	14.3	25.1	10.4	25.3
Fluoride	mg/L	0.188	0.111	0.239	0.168	0.286	0.494	0.212	0.117	0.0914 J
pH_Field	SU	7.04	6.66	6.21	6.12	6.33	6.57	6.38	6.51	5.25
Sulfate	mg/L	118	181	346	152	46.6	32.8	12.2	76.1	66.6
TDS	mg/L	263	359	774	407	490	506	397	207	224
Appendix IV										
Antimony	mg/L	<0.000508	0.00263	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000234	0.00302	0.0224	0.000464	0.0765	0.937	0.0509	0.000143 J	0.000279
Barium	mg/L	0.0323	0.114	0.11	0.0385	0.101	0.254	0.0763	0.0865	0.0988
Beryllium	mg/L	<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	0.0001 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	9.04e-005 J
Chromium	mg/L	0.000346 J	0.000261 J	0.000234 J	0.00027 J	0.000404 J	0.000216 J	0.00023 J	0.000274 J	0.000284 J
Cobalt	mg/L	0.000938	6.87e-005 J	0.0436	0.0194	0.0155	0.0109	0.0175	0.00147	0.0117
Combined Radium 226 + 228	pCi/L	0.113 U	0.3 U	1.01	0.314 U	0.49 U	1.97	2.04	0.305 U	0.693 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000108 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.117	0.5	0.985	0.622	0.647	0.585	0.335	0.0872	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0547	0.0319	0.0127	<6.8e-005	0.000145 J	0.0468	0.000397	0.00789	<6.8e-005
Selenium	mg/L	0.00281	0.00826	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	0.00124	<6.8e-005	<6.8e-005	0.000356	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 7.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
8/16/2021-8/27/2021

Analyte	Units	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-PZ-4	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H
		08/23/2021	08/23/2021	08/23/2021	08/17/2021	08/23/2021	08/24/2021	08/24/2021	08/24/2021	08/24/2021
Appendix III										
Boron	mg/L	<0.03	<0.03	<0.03	0.296	<0.03	<0.03	0.139	0.179	0.105
Calcium	mg/L	7.11	2.15	9.53	149	11.1	21	1.07	143	109
Chloride	mg/L	6.37	5.55	4.33	8.13	4.36	2.79	2.91	9.19	4.46
Fluoride	mg/L	<0.06	<0.06	<0.06	0.117	<0.06	0.0681 J	0.318	0.194	0.197
pH_Field	SU	5.67	4.17	6.04	5.64	5.54	6.08	7.06	6.12	5.84
Sulfate	mg/L	4	9.18	2	569	24.8	22.9	9.79	383	68.2
TDS	mg/L	49.3	64.7	48.7	900	89.3	94	181	742	345
Appendix IV										
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	<6.8e-005	0.000176 J	<6.8e-005	0.0021	0.00042	0.000105 J	0.00235	0.00811	0.00012 J
Barium	mg/L	0.0317	0.0764	0.0141	0.0781	0.0478	0.0336	0.00261	0.037	0.0872
Beryllium	mg/L	<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
Chromium	mg/L	0.000418 J	0.000385 J	0.000497 J	0.00033 J	0.000298 J	0.000753 J	0.000961 J	0.000259 J	0.000381 J
Cobalt	mg/L	0.000603	0.00105	<6.8e-005	0.211	0.00159	<6.8e-005	0.000321	0.0228	0.000706
Combined Radium 226 + 228	pCi/L	0.345 U	1.09	1.01 U	1.76	0.336 U	0.492 U	0.253 U	0.282 U	0.417 U
Lead	mg/L	<6.8e-005	0.00015 J	<6.8e-005	0.000224	<6.8e-005	<6.8e-005	0.000306	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0112 J	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	8.67e-005 J	0.000369	0.000476
Selenium	mg/L	<0.000508	0.000576 J	<0.000508	0.00321	<0.000508	0.00237	<0.000508	<0.000508	0.0148
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000106 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 7.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
8/16/2021-8/27/2021

Analyte	Units	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO
		08/24/2021	08/25/2021	08/25/2021	08/18/2021	08/18/2021	08/23/2021	08/18/2021	08/17/2021
Appendix III									
Boron	mg/L	2	0.627	0.632	1.03	1.23	0.208	0.646	0.392
Calcium	mg/L	115	108	78.3	74.4	106	138	122	54.2
Chloride	mg/L	7.38	6.66	14.4	17	35.8	13.1	9.94	7.84
Fluoride	mg/L	0.508	0.142	0.074 J	0.111	0.166	0.11	0.172	0.169
pH_Field	SU	6.13	5.91	6.13	6.16	6.46	6.07	6.84	6.7
Sulfate	mg/L	34.1	330	147	83.6	107	406	395	111
TDS	mg/L	490	562	376	401	578	714	730	303
Appendix IV									
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.069	0.000434	0.00182	0.00456	0.0116	0.00263	0.00143	0.000269
Barium	mg/L	0.213	0.0296	0.128	0.145	0.187	0.0596	0.0942	0.0578
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	8.41e-005 J	<6.8e-005	8.98e-005 J	<6.8e-005	0.00032	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000327 J	0.000232 J	0.000392 J	<0.000203	<0.000203	0.000302 J	0.0003 J	0.000285 J
Cobalt	mg/L	0.0183	0.00901	0.0101	0.0436	0.0196	0.428	0.0119	0.00293
Combined Radium 226 + 228	pCi/L	0.823 U	1.09 U	0.938 U	1.9	1.64	1.13	1.1	0.651 U
Lead	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
Lithium	mg/L	0.47	0.734	0.0545	0.0304	0.344	<0.007105	0.367	0.114
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00376	<6.8e-005	9.62e-005 J	0.000148 J	0.00283	0.000182 J	0.0752	0.0555
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	0.000762	0.000134 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000205	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



Table 7.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
8/16/2021-8/27/2021

Analyte	Units	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO
		08/17/2021	08/18/2021	08/18/2021	08/17/2021	08/16/2021	08/23/2021	08/23/2021	08/17/2021
Appendix III									
Boron	mg/L	0.105	0.131	0.157	0.281	1.35	0.517	0.458	<0.03
Calcium	mg/L	16.4	18	19.5	38.1	65	79.2	78.2	1.96
Chloride	mg/L	8.79	4.07	5.3	14.5	60.4	21.1	6.89	4.25
Fluoride	mg/L	<0.06	<0.06	0.0638 J	0.155	0.0613 J	0.245	0.328	<0.06
pH_Field	SU	5.98	5.96	6.05	6.07	5.98	6.33	6.67	4.89
Sulfate	mg/L	52.1	47	51.4	83.1	42.2	11.6	106	7.2
TDS	mg/L	121	121	130	217	423	390	405	45.3
Appendix IV									
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000136 J	0.000224	0.000739	0.000319	0.00014 J	0.225	0.454	9.15e-005 J
Barium	mg/L	0.0297	0.0239	0.0492	0.0707	0.129	0.377	0.2	0.0317
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	7.26e-005 J	0.000212	0.000242	0.000224	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00039 J	<0.000203	0.000402 J	0.000808 J	0.000382 J	0.000456 J	0.000388 J	0.000637 J
Cobalt	mg/L	0.000247	0.000395	0.00507	0.00608	0.0142	0.0233	0.031	0.000946
Combined Radium 226 + 228	pCi/L	0.339 U	0.595 U	1.11 U	0.939 U	1.3	2.06	0.978 U	0.442 U
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000294	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0453	0.0821	0.0538	0.106	<0.007105	<0.007105	0.0805	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<6.8e-005	7.03e-005 J	0.000223	8.68e-005 J	<6.8e-005	0.00142	0.00312	<6.8e-005
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	7.98e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids



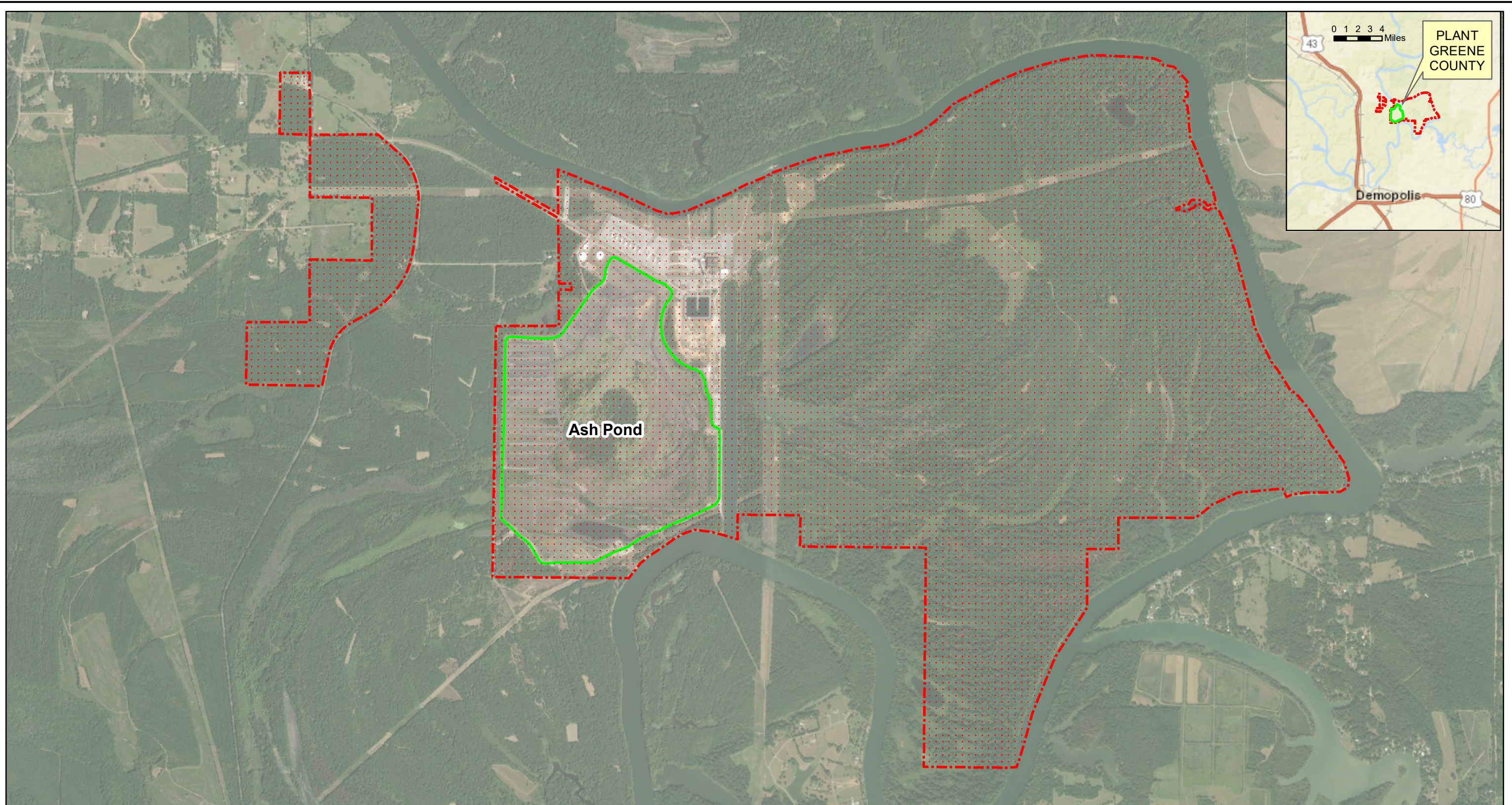
Table 7.
First Semi-Annual Monitoring Event Analytical Summary
Plant Greene County Ash Pond
8/16/2021-8/27/2021



Analyte	Units	GC-AP-MW-57H	GC-AP-MW-59HO	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO
		08/23/2021	08/17/2021	08/17/2021	08/17/2021	08/17/2021	08/17/2021	08/17/2021
Appendix III								
Boron	mg/L	0.211	0.192	<0.03	<0.03	<0.03	<0.03	0.571
Calcium	mg/L	41.4	69.8	3.97	36	20.3	8.92	54.6
Chloride	mg/L	8.41	10.8	4.94	3.13	3.28	3.37	10.9
Fluoride	mg/L	0.244	0.096 J	<0.06	0.141	0.0716 J	<0.06	0.225
pH_Field	SU	6.34	5.85	5.15	6.84	6.33	5.58	7.03
Sulfate	mg/L	117	214	6.86	12.9	14.9	22.7	128
TDS	mg/L	301	403	43.3	107	59.3	53.3	318
Appendix IV								
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.029	0.000699	<6.8e-005	0.000363	0.000263	0.000119 J	0.00051
Barium	mg/L	0.084	0.0669	0.0379	0.0383	0.0727	0.0597	0.0762
Beryllium	mg/L	<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	0.000119 J	<6.8e-005
Chromium	mg/L	0.000289 J	0.000573 J	0.00065 J	0.000469 J	0.000673 J	0.000353 J	0.000856 J
Cobalt	mg/L	0.0477	0.0216	0.00077	0.000493	0.000335	0.000809	0.00348
Combined Radium 226 + 228	pCi/L	1.52	1.19 U	0.612 U	0.404 U	0.437 U	0.219 U	0.56 U
Lead	mg/L	<6.8e-005	0.000172 J	<6.8e-005	<6.8e-005	0.000109 J	<6.8e-005	0.000224
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.142
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000892	0.000184 J	<6.8e-005	0.00151	0.000551	7.12e-005 J	0.0676
Selenium	mg/L	<0.000508	0.00051 J	0.00115	0.00065 J	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	0.000121 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	8.38e-005 J

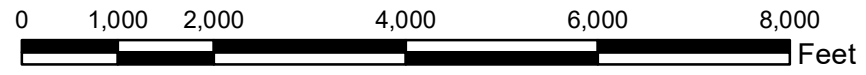
Notes:

1. J value indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
2. "<MDL" -Non-Detect and indicates the result was not detected above the MDL.
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. TDS - Total Dissolved Solids

Figures



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

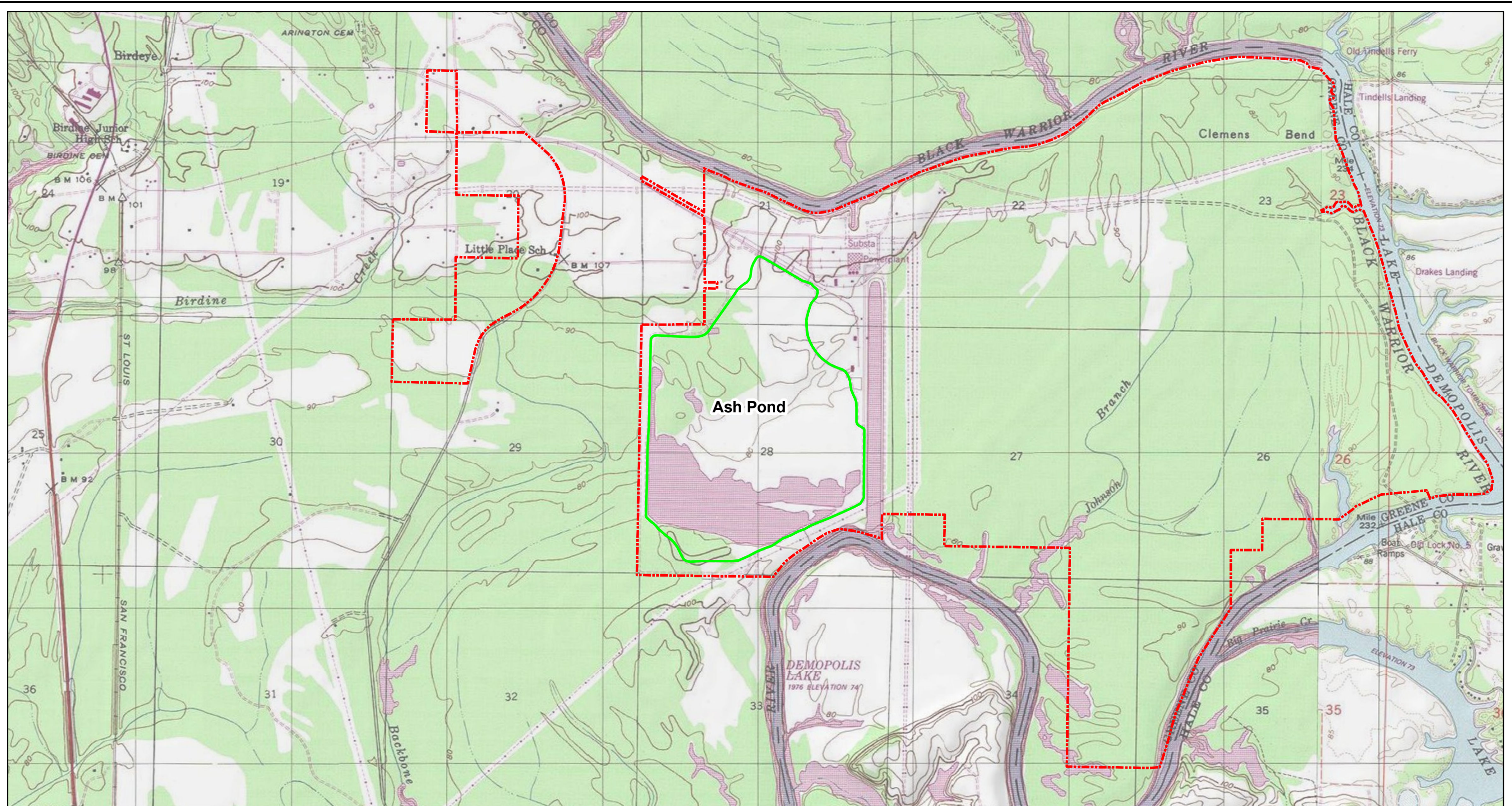


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CHECKED BY	GBD

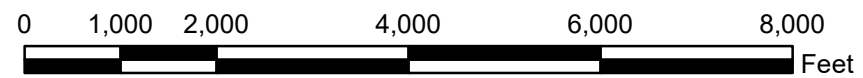
DRAWING TITLE
**SITE LOCATION MAP
 PLANT GREENE COUNTY ASH POND**

FIGURE NO
FIGURE 1



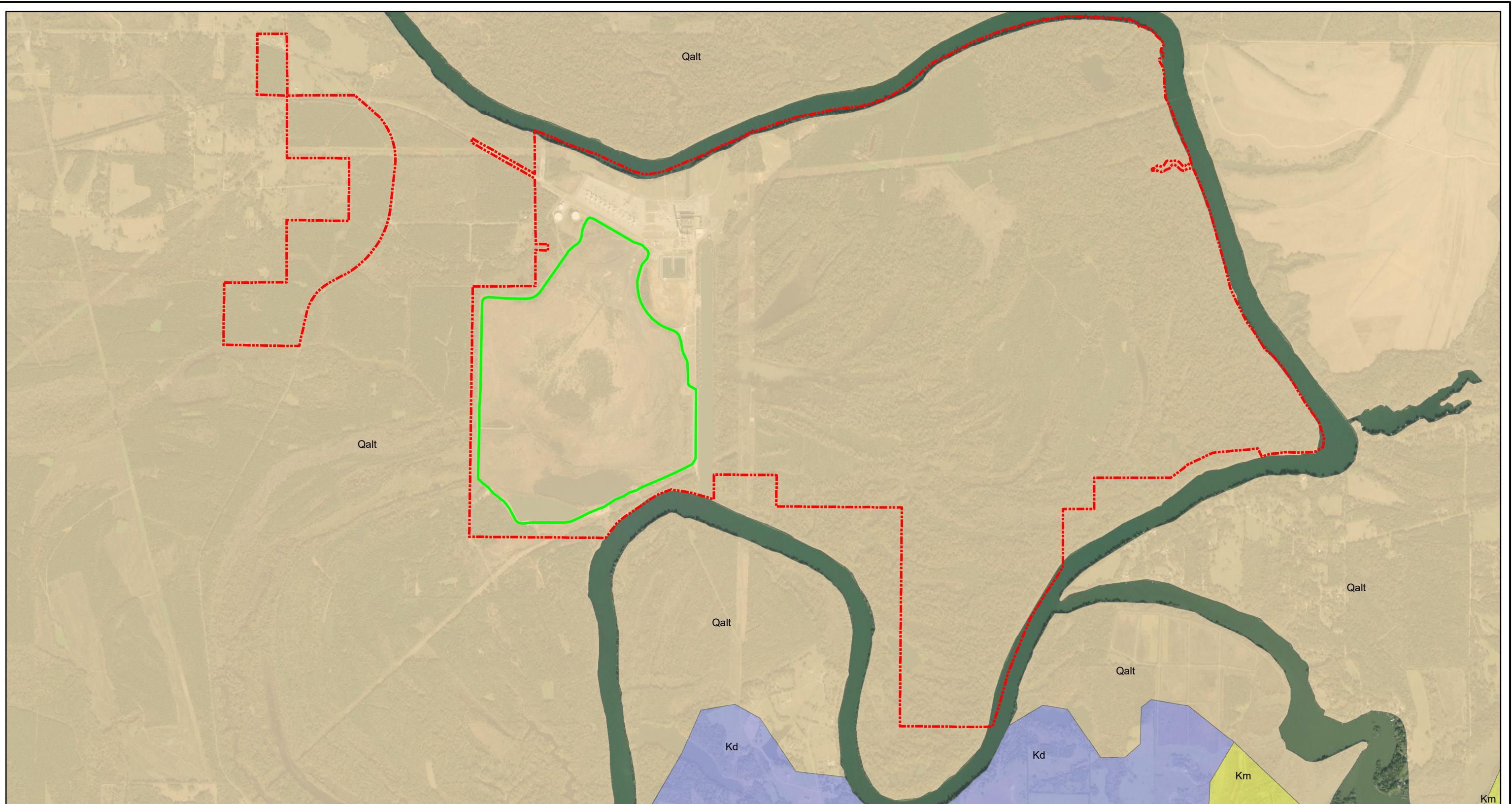


- Legend**
- Property Boundary (Approximate)
 - Ash Pond Boundary



SCALE	1:24000
DATE	12/19/2019
DRAWN BY	KAR
CHECKED BY	GBD

DRAWING TITLE	
SITE TOPOGRAPHIC MAP PLANT GREENE COUNTY ASH POND	
FIGURE NO	FIGURE 2
Southern Company	

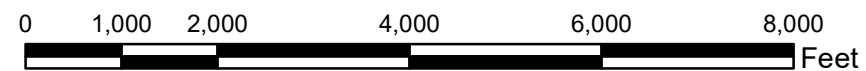


Legend

- ▭ Ash Pond Boundary
- - - Property Boundary (Approximate)

Geologic Unit

- ▭ Alluvial, coastal, and low terrace deposits (Qalt)
- ▭ Demopolis Chalk (Kd)
- ▭ Mooreville Chalk (Km)



SCALE 1:24000

DATE 12/19/2019

DRAWN BY KWR

CHECKED BY GBD

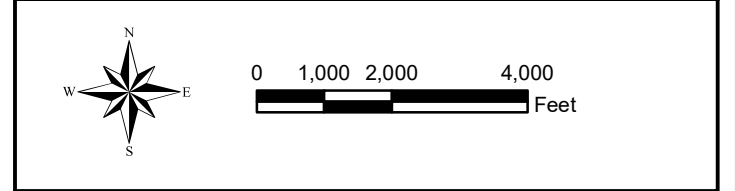
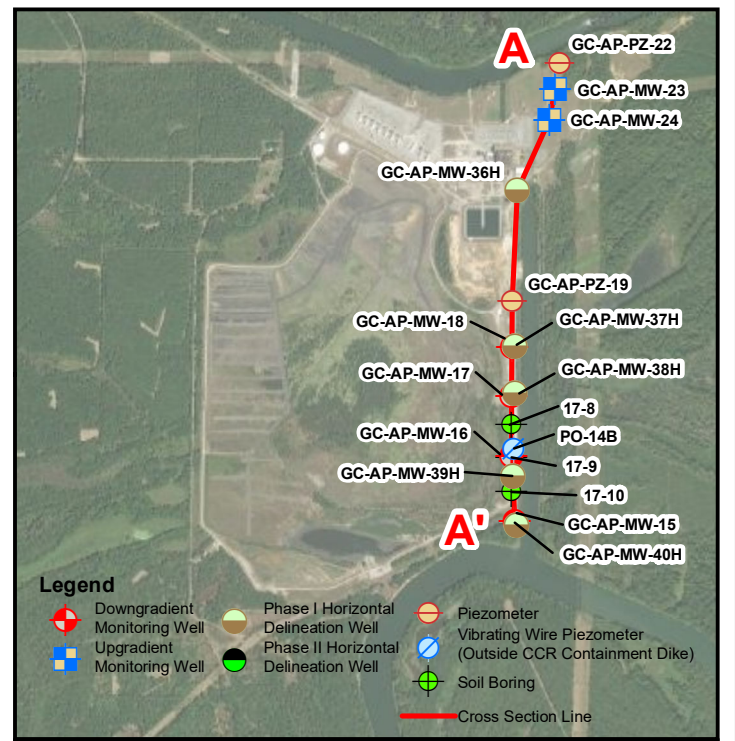
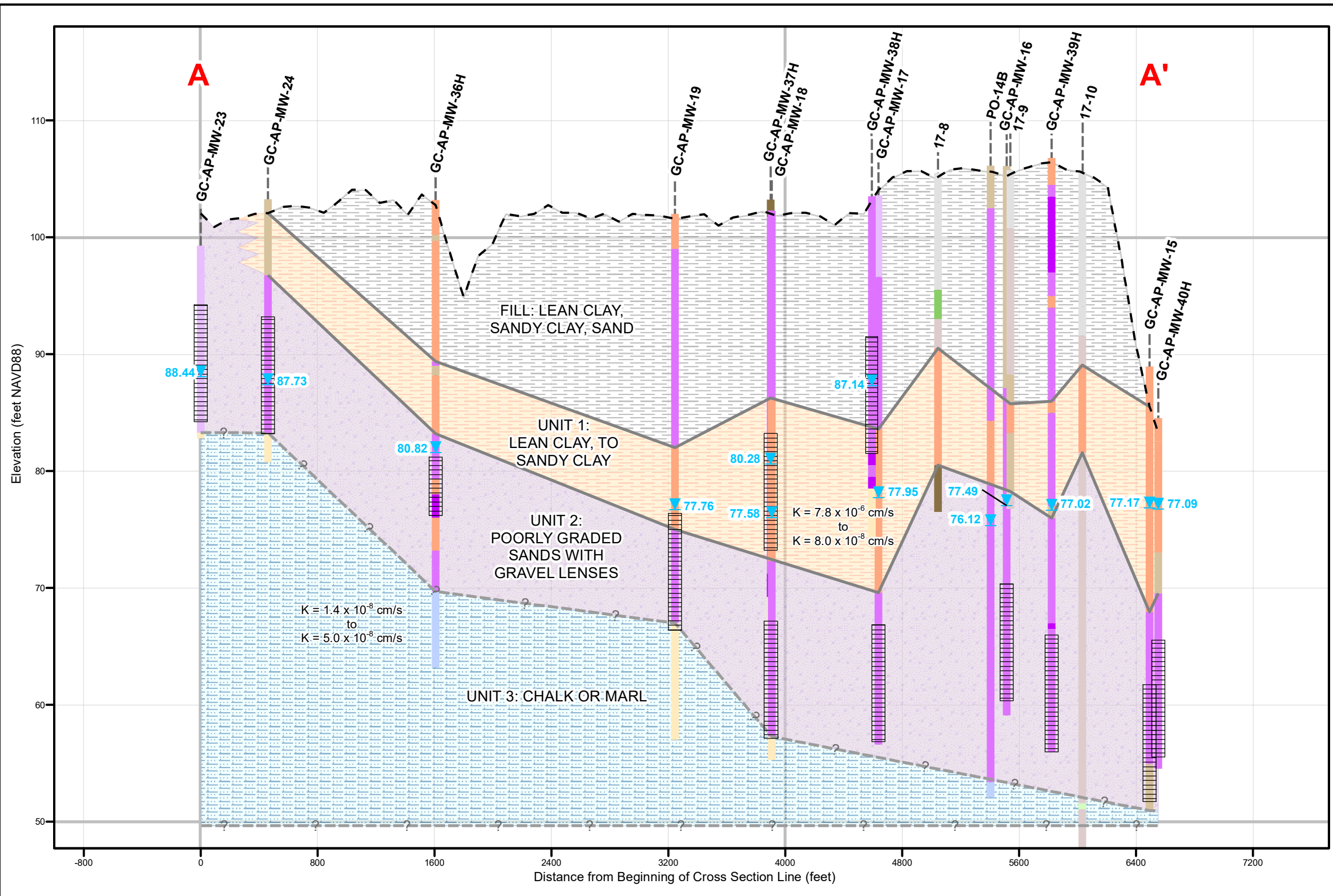
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**SITE GEOLOGIC MAP
PLANT GREENE COUNTY ASH POND**

FIGURE NO

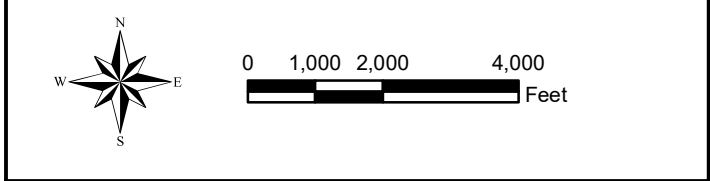
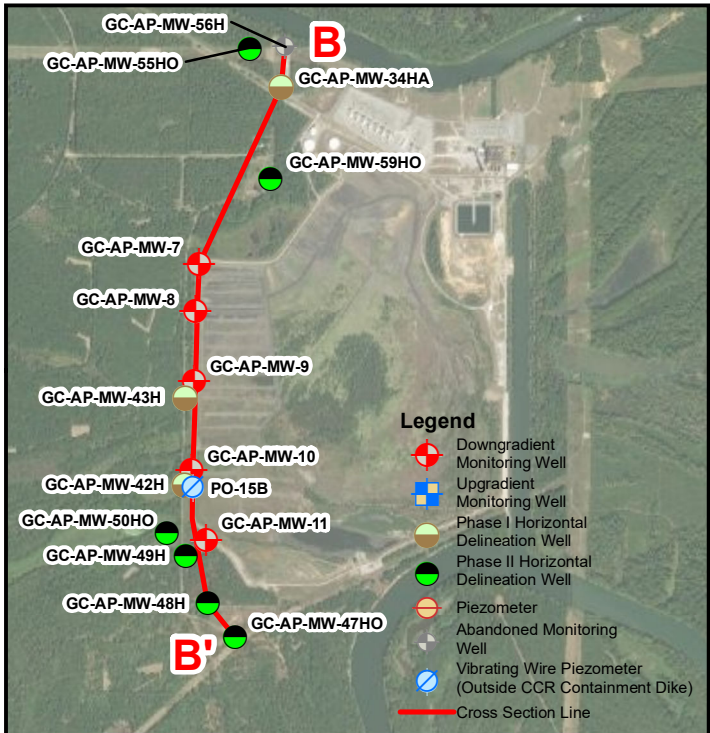
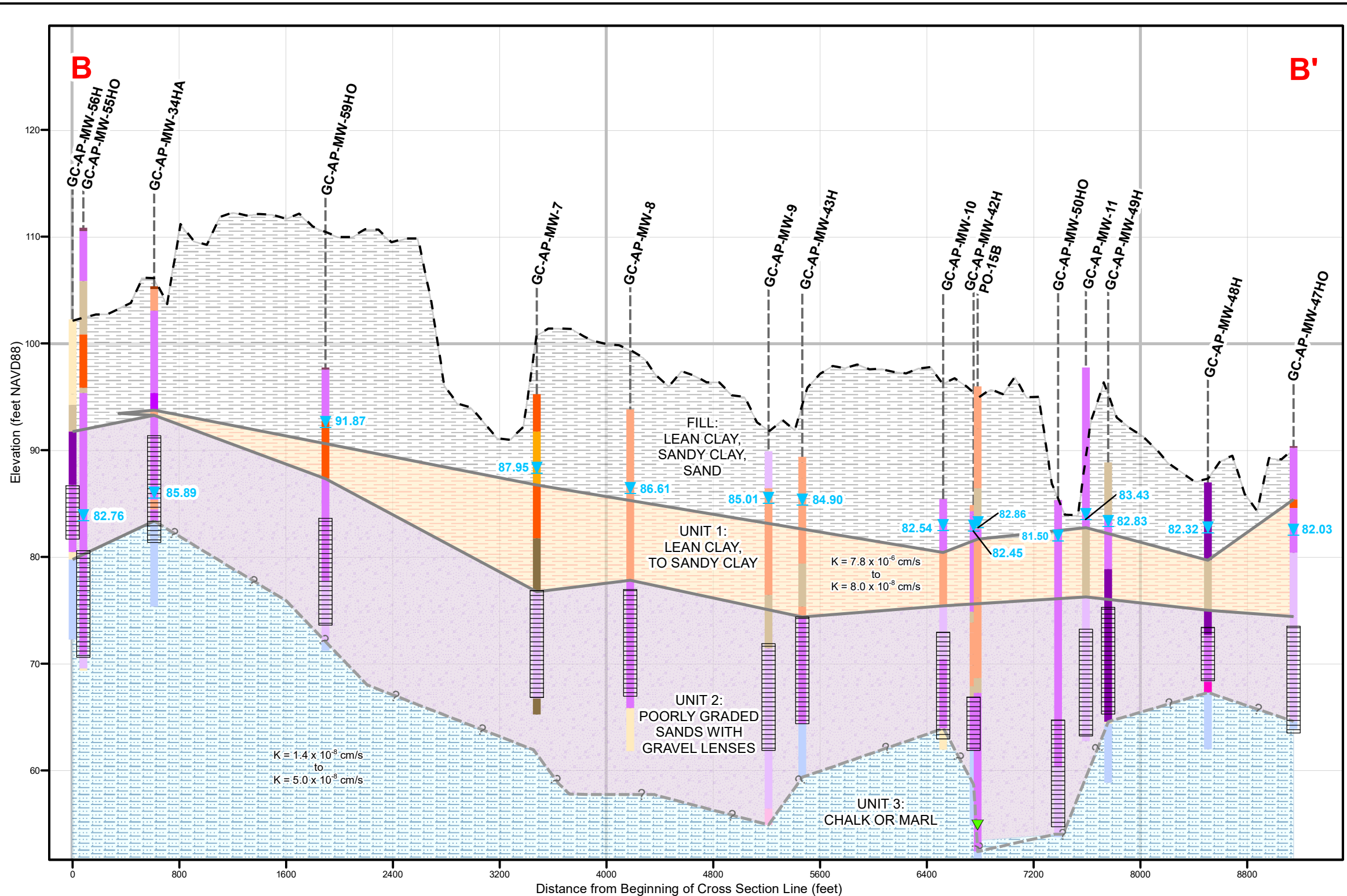
FIGURE 3





- Notes:**
1. Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on March 8, 2021.
 4. K = Hydraulic Conductivity.
 5. Vertical exaggeration = 80.
 6. Soil borings 17-8, 17-9, and 17-10 are utilized for soil characterization and were drilled on July 18, 2017 (17-10) and July 20, 2017 (17-8 and 17-9).
 7. Boring data from Vibrating Wire Piezometer (VWP) PO-14B were recorded on May 21, 2020, and the VWP was installed on September 24, 2020.

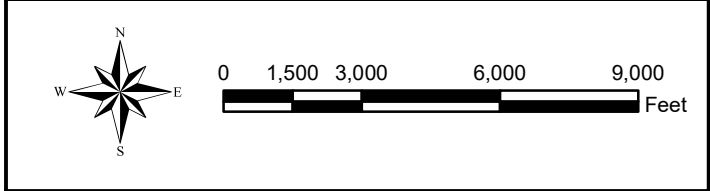
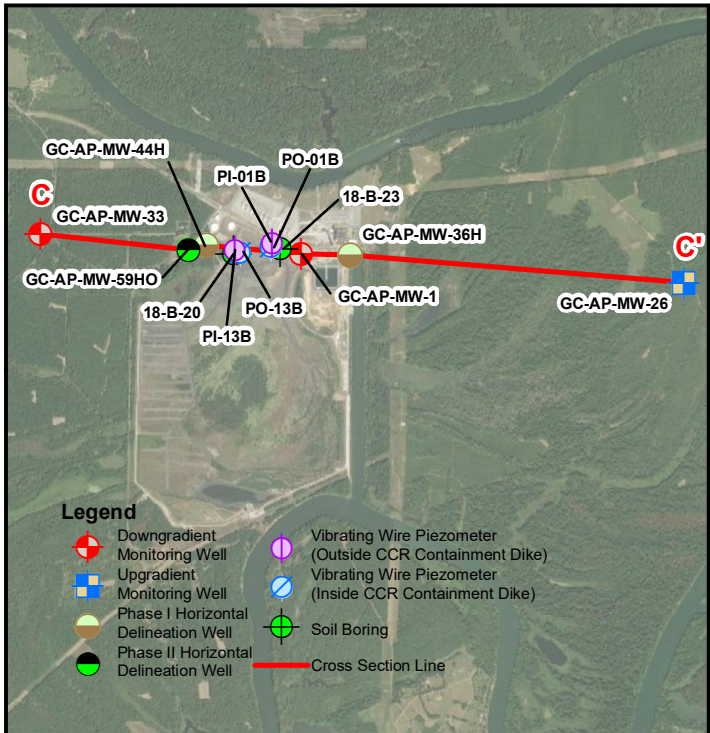
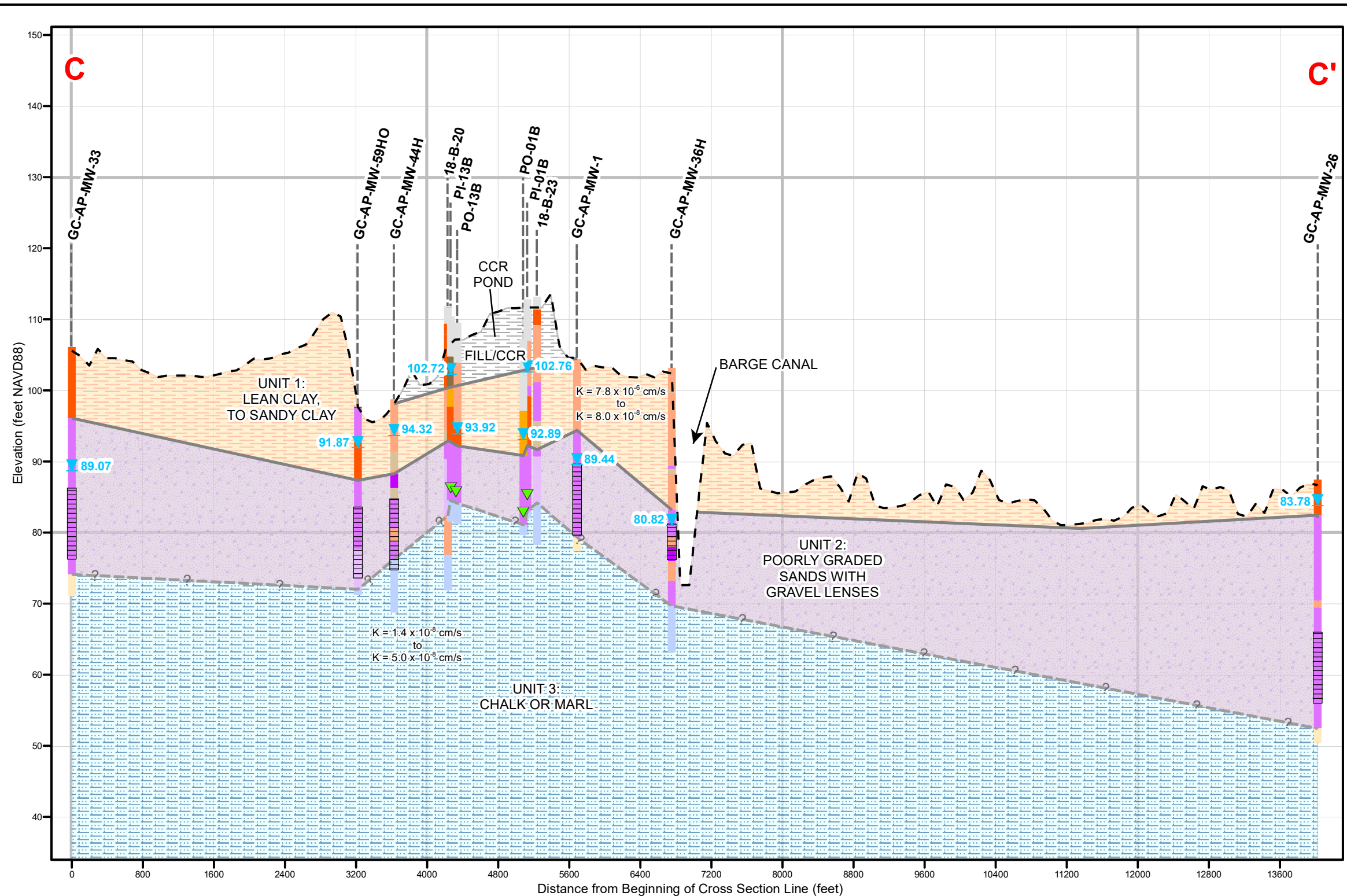
Legend		Borehole Description		Geologic Units		SCALE	DRAWING TITLE	
Groundwater Elevation	Well Location	Unit Boundary (inferred)	Fill	Sand	Fill: Lean Clay, Sandy Clay, Sand	As Shown	GEOLOGIC CROSS SECTION A - A' PLANT GREENE COUNTY ASH POND	
Ground Surface Elevation	Unit Boundary	Lean Clay	Well-graded Sand	Unit 1: Lean Clay to Sandy Clay	Unit 2: Poorly Graded Sands with Gravel Lenses	DATE 7/19/2021		
Screen Interval		Silt	Poorly-graded Sand with Clay	Unit 3: Chalk or Marl		DRAWN BY KWR	FIGURE NO FIGURE 4A	
Vibrating Wire Piezometer Tip Elevation		Silty Sand	Chalk			CHECKED BY GBD		



- Notes:
1. Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevation data were measured on March 8, 2021.
 4. The ground surface shown on the cross section was derived from a digital elevation model raster along the cross section line drawn as shown in the inset map. In addition to boring data from wells located directly on the cross section line, boring data from wells location near but not directly on the cross section line were also utilized for lithologic correlation. These well's boring data are projected onto the cross section line, and, as such, the ground surface shown on the cross section is higher in elevation than what the ground surface actually is at those locations.
 5. K = Hydraulic Conductivity.
 6. MW-56H was abandoned on May 16, 2020.
 7. Vertical exaggeration = 80.
 8. Boring data from Vibrating Wire Piezometer (VWP) PO-15B were recorded on May 20, 2020, and the VWP was installed on September 25, 2020

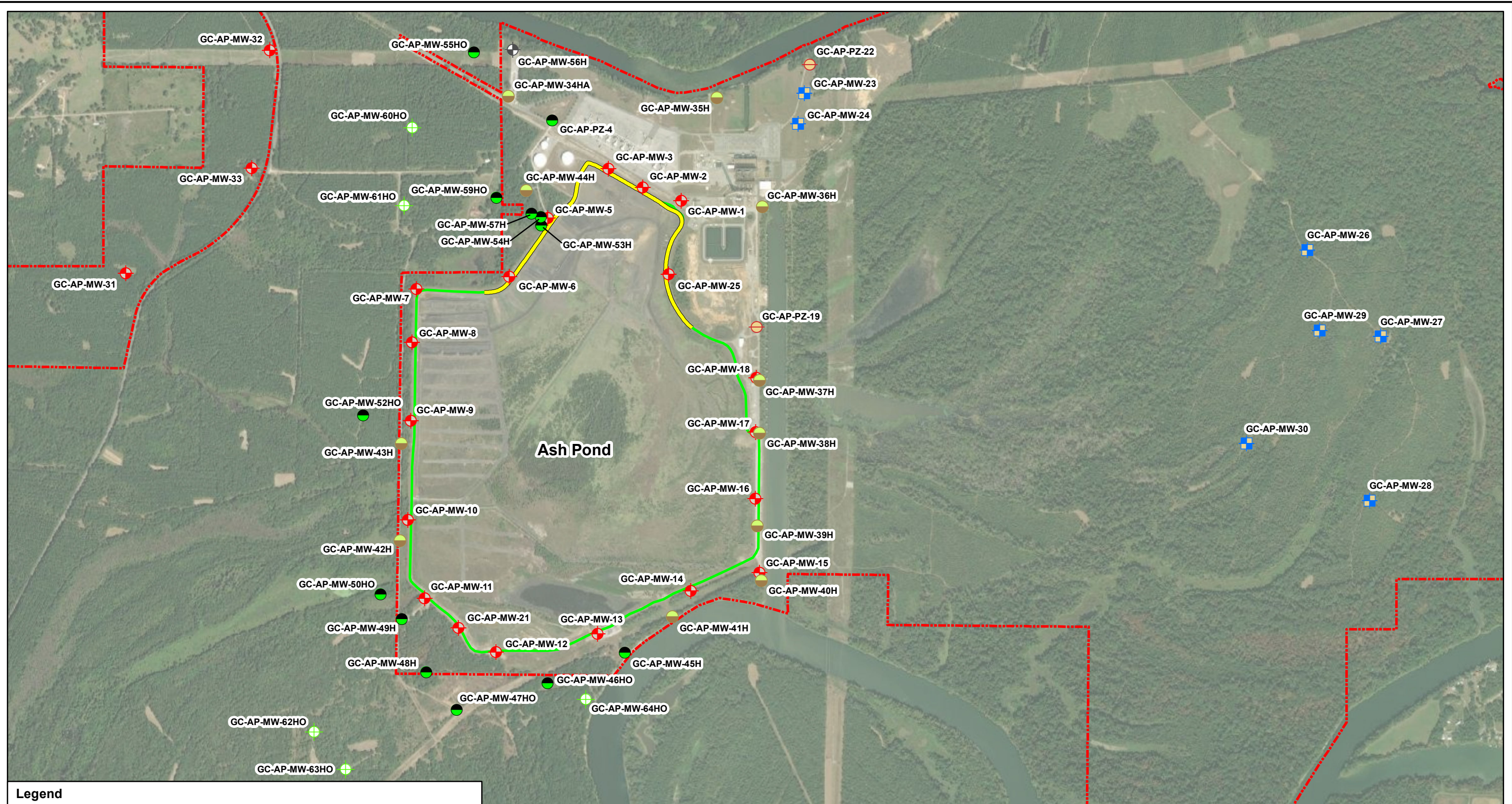
Legend		Borehole Description		Geologic Units	
	Groundwater Elevation		Well-graded Sand		Fill: Lean Clay, Sandy Clay, Sand
	Vibrating Wire Piezometer Tip Elevation		Poorly-graded Sand		Unit 1: Lean Clay to Sandy Clay
	Ground Surface Elevation		Poorly-graded Sand with Clay		Unit 2: Poorly Graded Sands with Gravel Lenses
	Screen Interval		Poorly-graded Sand with Silt		Unit 3: Chalk or Marl
	Unit Boundary (Inferred)		Well-graded Gravel		
	Unit Boundary		Poorly-graded Gravel		
			Chalk		
			Silty Sand		
			Well Location		

SCALE	As Shown	DRAWING TITLE
DATE	7/19/2021	
DRAWN BY	KWR	
CHECKED BY	GFB	
FIGURE NO		
FIGURE 4B		



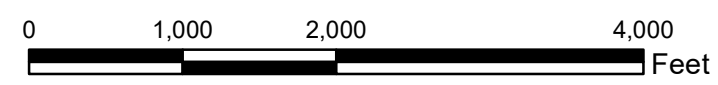
- Notes:
1. Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevation data were measured on March 8, 2021.
 4. The ground surface shown on the cross section was derived from a digital elevation model raster along the cross section line drawn as shown in the inset map. In addition to boring data from wells located directly on the cross section line, boring data from wells location near but not directly on the cross section line were also utilized for lithologic correlation. These well's boring data are projected onto the cross section line, and, as such, the ground surface shown on the cross section is higher in elevation than what the ground surface actually is at those locations.
 5. K = Hydraulic Conductivity.
 6. Vertical exaggeration = 80.
 7. Boring data from Vibrating Wire Piezometers (VWP) PO-01B, PI-01B, PO-13B, and PI-13B were recorded on May 19 and 21, 2020, and the VWPs were installed between September 22 and October 1, 2020.

Legend		Borehole Description		Geologic Units		SCALE	DRAWING TITLE
	Groundwater Elevation		Fill		Sandy Silt	As Shown	GEOLOGIC CROSS SECTION C - C' PLANT GREENE COUNTY ASH POND
	Vibrating Wire Piezometer Tip Elevation		Topsoil		Clayey Sand	7/19/2021	
	Ground Elevation		Fat Clay		Silty Sand	DRAWN BY	
	Screen Interval		Lean Clay		Well-graded Sand	KWR	FIGURE NO FIGURE 4C
	Unit Boundary (Inferred)		Silty Clay		Poorly-graded Sand	CHECKED BY	
	Unit Boundary		Sandy Lean Clay		Poorly-graded Sand with Clay	GFB	Southern Company
	Well Location				Poorly-graded Sand with Silt		
					Well-graded Gravel		
					Poorly-graded Gravel		
					Chalk		
					Fill/CCR		
					Unit 1: Lean Clay to Sandy Clay		
					Unit 2: Poorly-Graded Sands with Gravel Lenses		
					Unit 3: Chalk or Marl		



Legend

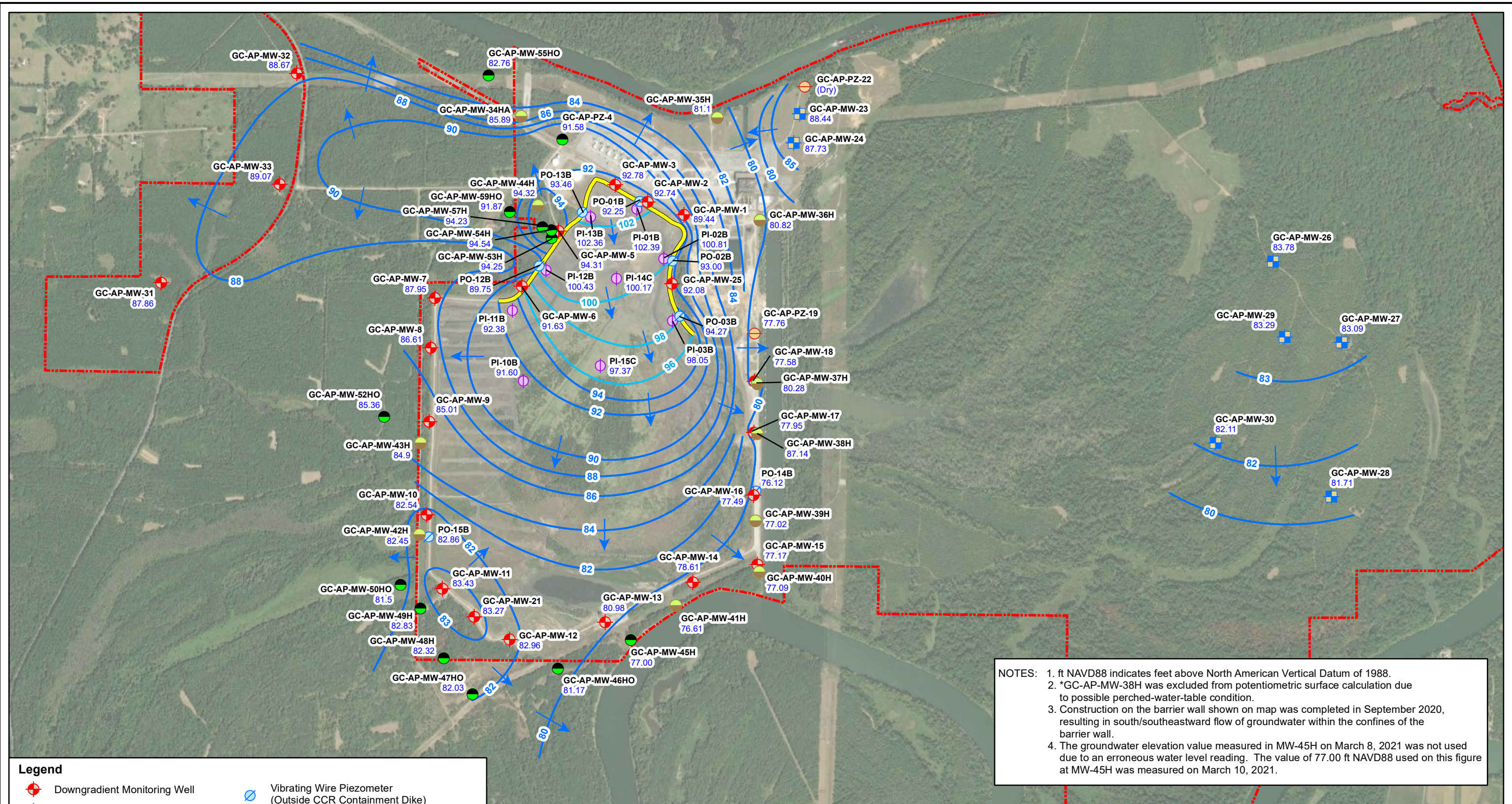
Downgradient Monitoring Well	Phase II Horizontal Delineation Well
Upgradient Monitoring Well	Phase III Horizontal Delineation Well
Piezometer	Abandoned Monitoring Well
Phase I Horizontal Delineation Well	Slurry Wall Alignment
	Ash Pond Boundary
	Property Boundary



NOTES: 1. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.
 2. Off-site Phase II Horizontal Delineation Wells MW-46HO, MW-47HO, MW-50HO, MW-52HO, MW-55HO, and MW-59HO were installed on 5/13/2020, 5/14/2020, and 6/15/2020.

SCALE	1:15000
DATE	1/19/2022
DRAWN BY	KWR
CHECKED BY	GFB

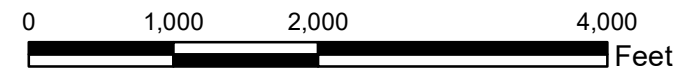
DRAWING TITLE	
MONITORING WELL LOCATION MAP PLANT GREENE COUNTY ASH POND	
FIGURE NO	FIGURE 5
Southern Company	



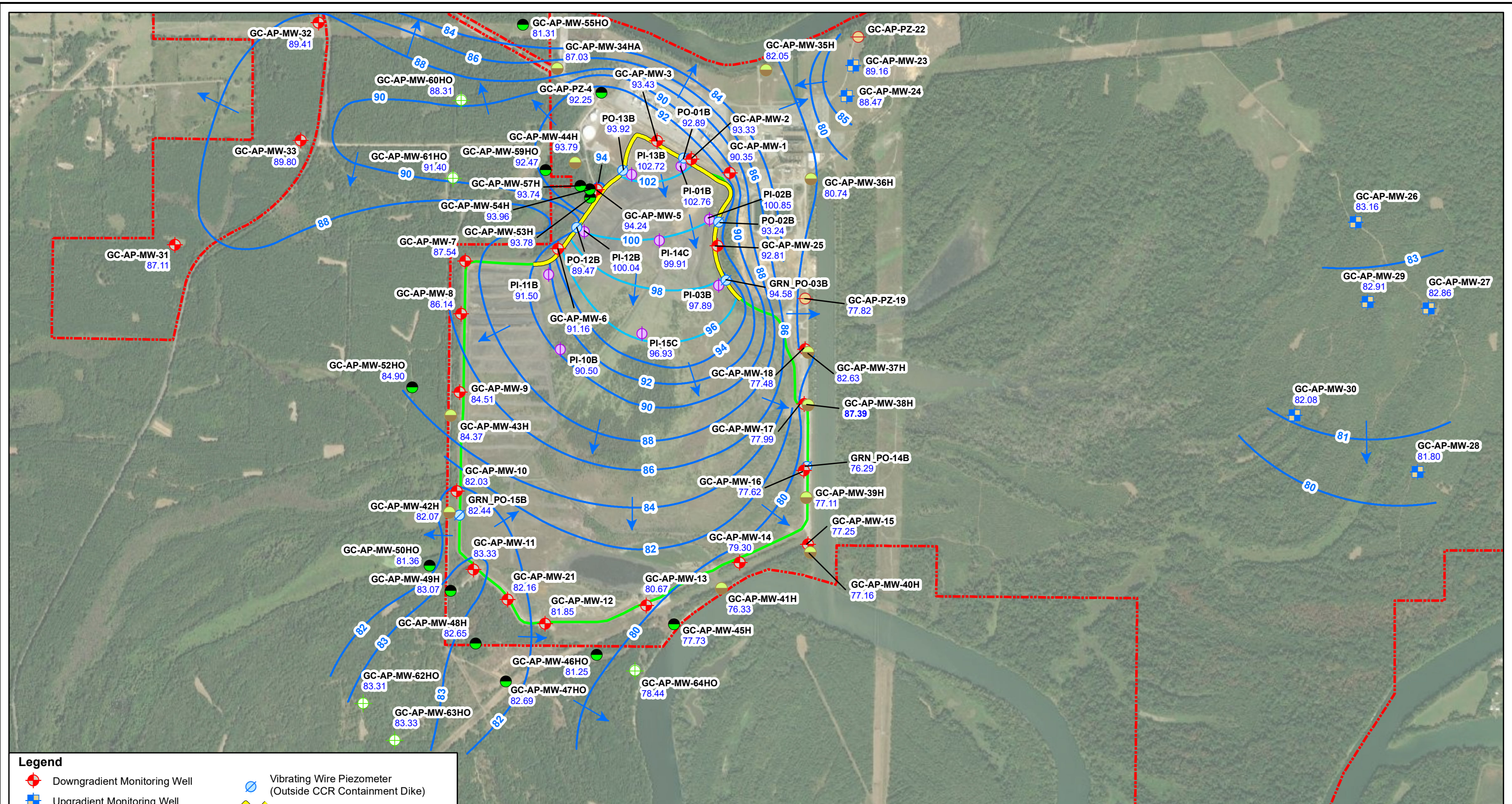
NOTES:

1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. *GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.
3. Construction on the barrier wall shown on map was completed in September 2020, resulting in south/southeastward flow of groundwater within the confines of the barrier wall.
4. The groundwater elevation value measured in MW-45H on March 8, 2021 was not used due to an erroneous water level reading. The value of 77.00 ft NAVD88 used on this figure at MW-45H was measured on March 10, 2021.

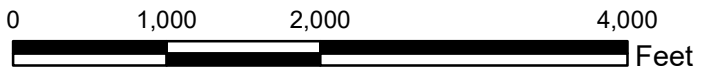
Legend	
	Downgradient Monitoring Well
	Upgradient Monitoring Well
	Piezometer
	Phase I Horizontal Delineation Well
	Phase II Horizontal Delineation Well
	Abandoned Monitoring Well
	Vibrating Wire Piezometer (Inside CCR Containment Dike)
	Vibrating Wire Piezometer (Outside CCR Containment Dike)
	Barrier Wall Alignment
	Approximate Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)
	Approximate Potentiometric Surface Contour (ft NAVD88) (Inside Barrier Wall)
	Approximate Groundwater Flow Direction
	Property Boundary



SCALE	1:15930	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 8, 2021 PLANT GREENE COUNTY ASH POND
DATE	8/1/2021	
DRAWN BY	KWR	FIGURE NO FIGURE 6A
CHECKED BY	GBD	



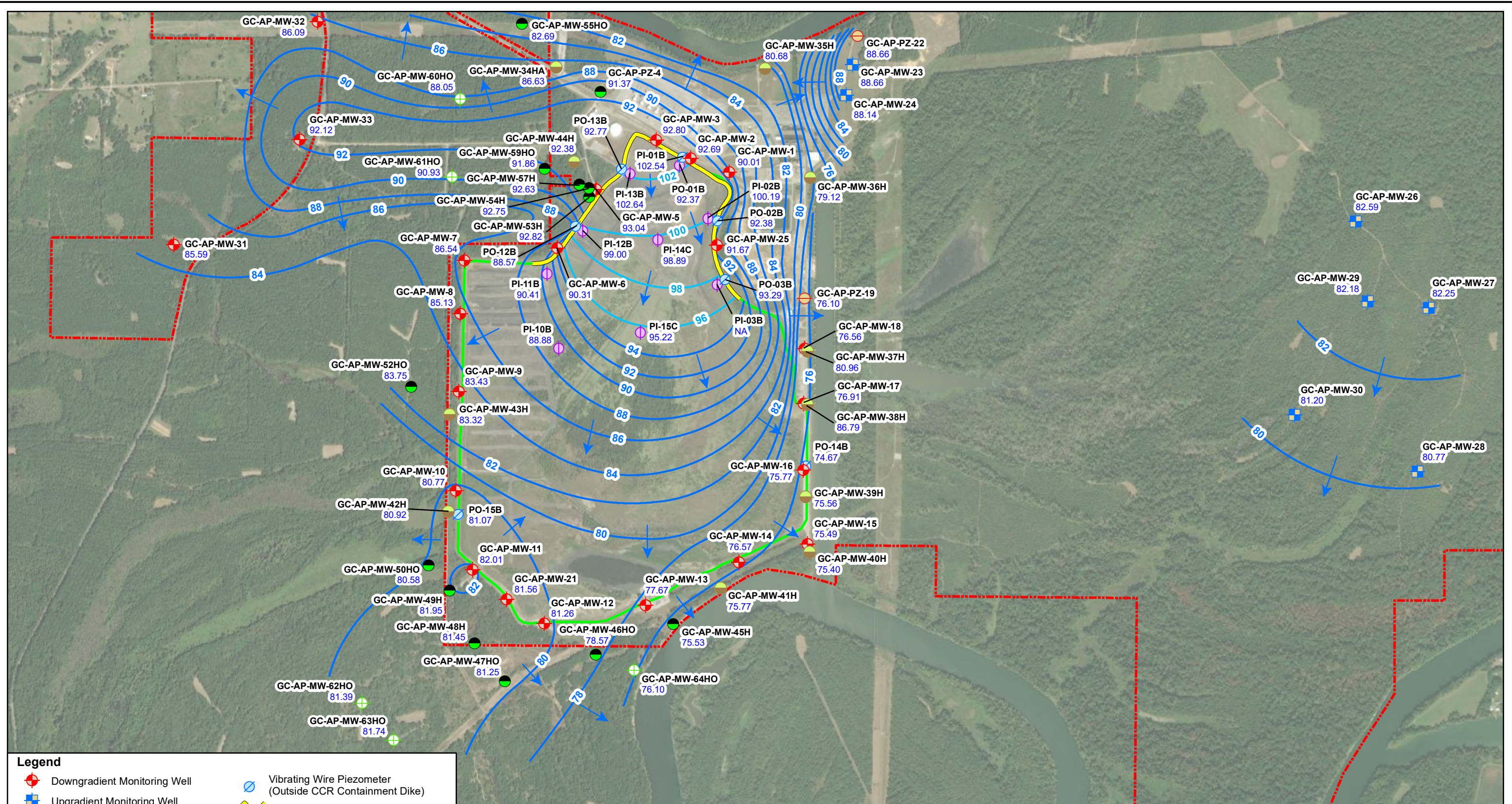
Legend	
	Downgradient Monitoring Well
	Upgradient Monitoring Well
	Piezometer
	Phase I Horizontal Delineation Well
	Phase II Horizontal Delineation Well
	Phase III Horizontal Delineation Well
	Abandoned Monitoring Well
	Vibrating Wire Piezometer (Inside CCR Containment Dike)
	Vibrating Wire Piezometer (Outside CCR Containment Dike)
	Slurry Wall Alignment
	Approximate Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)
	Approximate Potentiometric Surface Contour (ft NAVD88) (Inside Barrier Wall)
	Approximate Groundwater Flow Direction
	Ash Pond Boundary
	Property Boundary



NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. *GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.
 3. Construction on the barrier wall shown on map was completed in September 2020, resulting in south/southeastward flow of groundwater within the confines of the barrier wall.

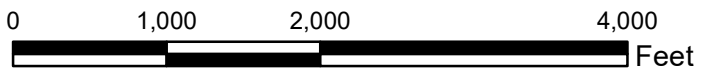
SCALE	1:15000
DATE	1/10/2022
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP JUNE 28, 2021 PLANT GREENE COUNTY ASH POND	
FIGURE NO	FIGURE 6B



Legend

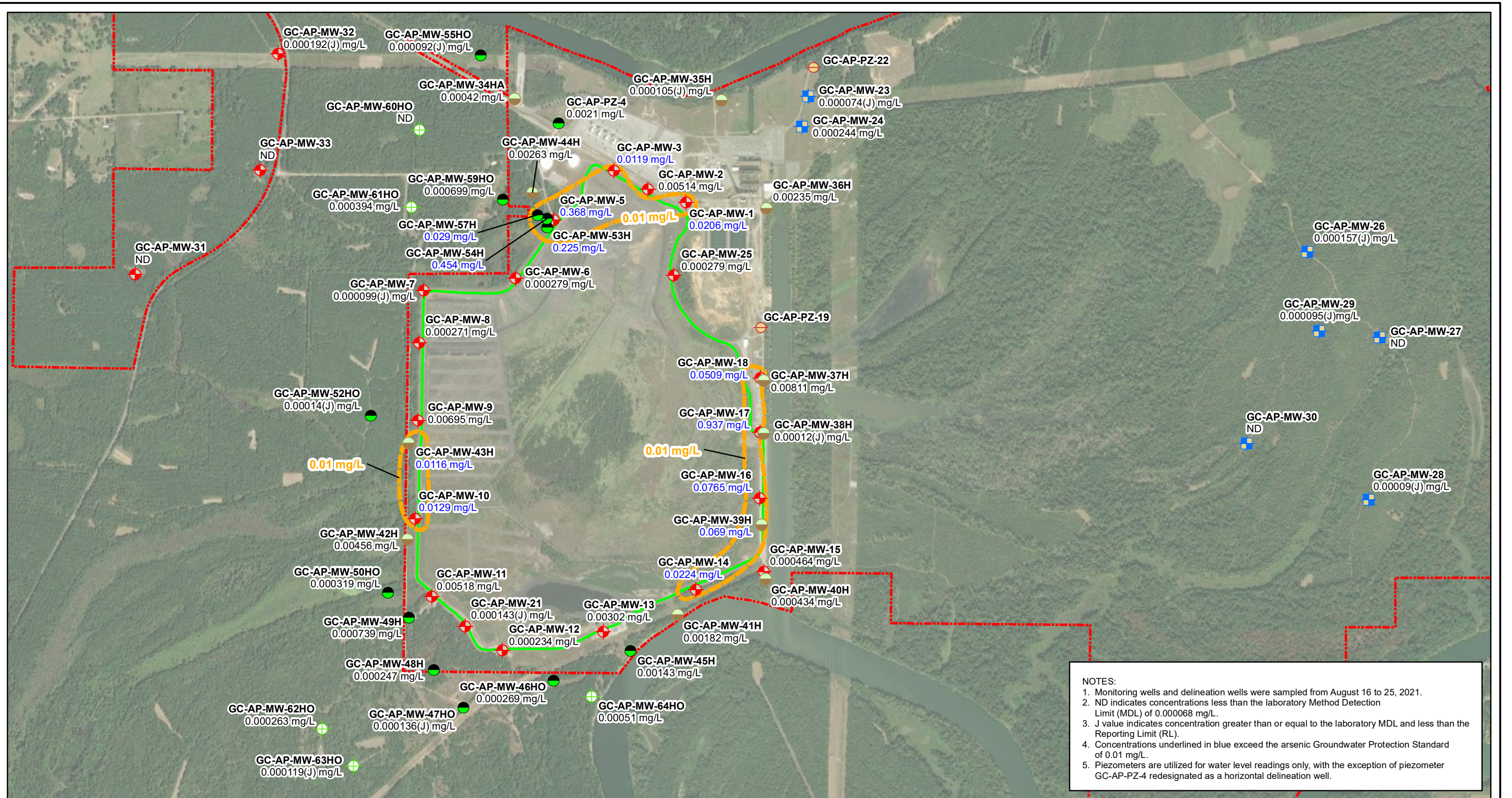
- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer
- Phase I Horizontal Delineation Well
- Phase II Horizontal Delineation Well
- Phase III Horizontal Delineation Well
- Abandoned Monitoring Well
- Vibrating Wire Piezometer (Inside CCR Containment Dike)
- Vibrating Wire Piezometer (Outside CCR Containment Dike)
- Slurry Wall Alignment
- Approximate Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)
- Approximate Potentiometric Surface Contour (ft NAVD88) (Inside Barrier Wall)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- Property Boundary



NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. *GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.
 3. Construction on the barrier wall shown on map was completed in September 2020, resulting in south/southeastward flow of groundwater within the confines of the barrier wall.

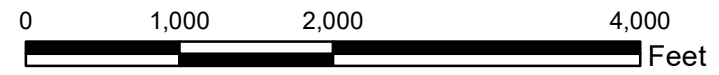
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DATE	1/10/2022
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP AUGUST 16, 2021 PLANT GREENE COUNTY ASH POND	
FIGURE NO	FIGURE 6C



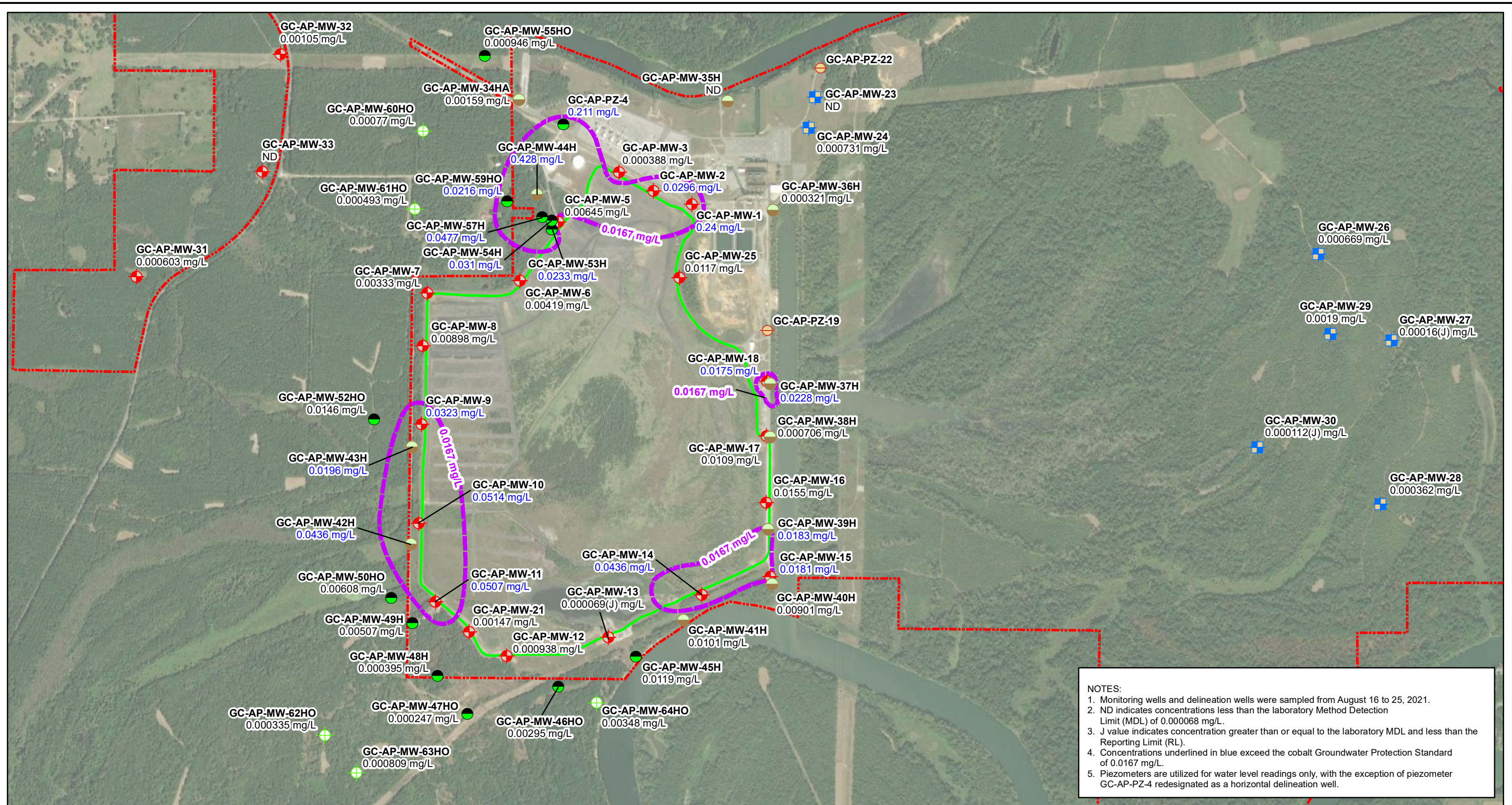
NOTES:
 1. Monitoring wells and delineation wells were sampled from August 16 to 25, 2021.
 2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.000068 mg/L.
 3. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
 4. Concentrations underlined in blue exceed the arsenic Groundwater Protection Standard of 0.01 mg/L.
 5. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

Legend	
	Downgradient Monitoring Well
	Upgradient Monitoring Well
	Piezometer
	Phase I Horizontal Delineation Well
	Phase II Horizontal Delineation Well
	Phase III Horizontal Delineation
	Arsenic GWPS Isoconcentration Contour (mg/L)
	Ash Pond Boundary
	Property Boundary



SCALE	1:15000
DATE	1/19/2022
DRAWN BY	KWR
CHECKED BY	GFB

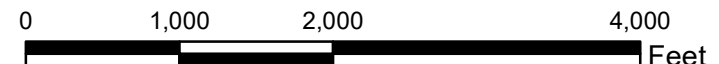
DRAWING TITLE	
ARSENIC ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND	
FIGURE NO	FIGURE 7A



NOTES:
 1. Monitoring wells and delineation wells were sampled from August 16 to 25, 2021.
 2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.000068 mg/L.
 3. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
 4. Concentrations underlined in blue exceed the cobalt Groundwater Protection Standard of 0.0167 mg/L.
 5. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

- Legend**
- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Piezometer
 - Phase I Horizontal Delineation Well
 - Phase II Horizontal Delineation Well
 - Phase III Horizontal Delineation Well

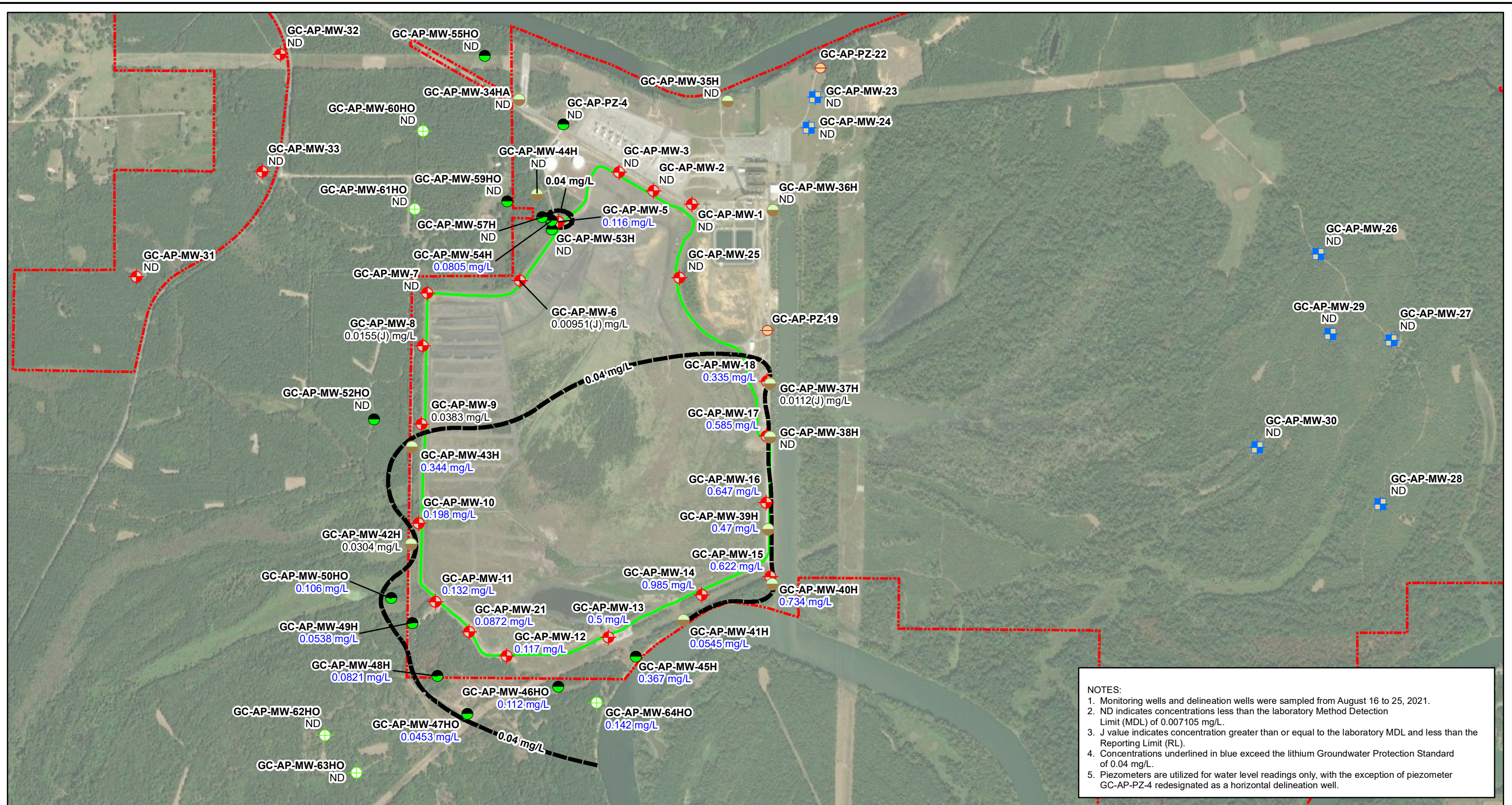
- Cobalt GWPS Isoconcentration Contour (mg/L)
- Ash Pond Boundary
- Property Boundary



SCALE 1:15000
 DATE 1/19/2022
 DRAWN BY KWR
 CHECKED BY GFB

DRAWING TITLE
**COBALT ISOCONCENTRATION MAP
 PLANT GREENE COUNTY ASH POND**

FIGURE NO
FIGURE 7B



NOTES:
 1. Monitoring wells and delineation wells were sampled from August 16 to 25, 2021.
 2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.007105 mg/L.
 3. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
 4. Concentrations underlined in blue exceed the lithium Groundwater Protection Standard of 0.04 mg/L.
 5. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

Legend Downgradient Monitoring Well Upgradient Monitoring Well Piezometer Phase I Horizontal Delineation Well Phase II Horizontal Delineation Well Phase III Horizontal Delineation Well Lithium GWPS Isoconcentration Contour (mg/L) Ash Pond Boundary Property Boundary		SCALE 1:15000 DATE 1/19/2022 DRAWN BY KWR CHECKED BY GFB	DRAWING TITLE LITHIUM ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND FIGURE NO FIGURE 7C	Southern Company
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Appendix A



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-23																						
		Date	02/17/2016	04/12/2016	06/01/2016	08/16/2016	10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/09/2017	06/27/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/12/2020	03/10/2021	08/24/2021	
Appendix III	Units																							
Boron	mg/L	0.0271 J	<0.02	<0.02	<0.02	0.024 J	--	0.0333 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	38.7	42.7	41.8	40.9	38.1	--	27.7	--	29.3	28.6	32.3	--	34.5	32	30.3	31.3	30.7	30.8	28	26.6	26.3		
Chloride	mg/L	1.54	1.51	1.46	1.5	1.52	--	1.38	--	2.4	2.1	2.4	--	1.7 J	1.5 J	1.4 J	1.23	1.38	1.08	1.28	1.3	1.19		
Fluoride	mg/L	0.08 J	0.077 J	0.101 J	0.093 J	0.059 J	--	--	0.07 J	0.08 J	0.08 J	0.1	0.08 J	0.09 J	--	0.08 J	0.123	0.0914 J	0.095 J	0.0867 J	0.085 J	0.0713 J		
pH_Field	pH	6.8	6.54	6.49	6.57	6.54	--	6.42	--	6.42	6.44	6.43	6.49	6.43	6.35	6.37	6.46	5.85	6.26	6.03	6.17	6.09		
Sulfate	mg/L	14.7	20	20.1	19.1	18.4	--	15	--	14	14	16	--	14	13	14	12.3	12.4	10.2	10.2	11.8	11.6		
TDS	mg/L	142	155	148	132	--	115	107	--	80.7	96.7	120	--	113	108	96.7	103	107	107	96	105	96.7		
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000886 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	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	7.36e-005 J		
Barium	mg/L	0.0285	0.035	0.0328	0.033	0.0352	--	0.0286	--	0.0257	0.0246	--	0.0287	0.0279	--	0.0281	0.0295	0.0338	0.0296	0.0311	0.0305	0.0311		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005		
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000432 J	0.000426 J		
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005		
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.044 U	0.213 U	0.184 U	--	0.251 U	--	0.631	0.145 U	--	0.402 U	0.313 U	--	0.496 U	0.315 U	0.219 U	0.166 U	0.986	1.01 U	0.735 U		
Fluoride	mg/L	0.08 J	0.077 J	0.101 J	0.093 J	0.059 J	--	--	0.07 J	0.08 J	0.08 J	0.1	0.08 J	0.09 J	--	0.08 J	0.123	0.0914 J	0.095 J	0.0867 J	0.085 J	0.0713 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	<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	--	<0.01	<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	--	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000179 J	0.000167 J		
Selenium	mg/L	<0.002	0.00205 J	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00117	0.00113		
Thallium	mg/L	0.000364 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-24																						
		Date	02/17/2016	04/12/2016	06/01/2016	08/16/2016	10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/22/2020	08/12/2020	03/10/2021	08/24/2021	
Appendix III	Units																							
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	6.54	6.15	5.7	6.77	8.84	--	12.8	--	12.4	17.9	19	--	30	28.7	30.7	32.3	32.8	31.4	35.8	42.8	36.5		
Chloride	mg/L	3.3	3.25	3.55	3.45	3.78	--	4.61	--	5.9	5.7	6.8	--	7.9	6.1	5.2	6.92	4.39	2.75	4.14	3.51	3.45		
Fluoride	mg/L	0.02 J	0.026 J	0.057 J	0.046 J	<0.01	--	--	<0.032	<0.032	<0.032	0.04 J	<0.032	0.04 J	--	<0.032	<0.05	0.0545 J	<0.06	<0.06	<0.06	<0.06		
pH_Field	pH	5.39	5.29	5.39	5.51	5.44	--	5.44	--	5.43	5.49	5.46	5.48	5.31	5.36	5.34	5.32	4.9	5.3	5.04	5.14	5.16		
Sulfate	mg/L	10.4	11.3	10.4	12.2	19.8	--	30.7	--	33	56	61	--	97	83	91	103	83.4	84.7	82.2	99.9	81.8		
TDS	mg/L	53	38.7	46	48	--	66.7	78.7	--	92.7	118	128	--	171	170	163	174	167	162	165	179	168		
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000858 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	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00045	0.000244		
Barium	mg/L	0.0305	0.0312	0.0298	0.0308	0.042	--	0.0446	--	0.0568	0.0663	--	0.101	0.108	--	0.1	0.0978	0.0967	0.0738	0.0788	0.0873	0.0695		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005		
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000433 J	0.000426 J		
Cobalt	mg/L	0.00219 J	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000676	0.000699		
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.407	0.547 U	0.845	--	0.403 U	--	0.645	0.93	--	1.88	1.13	--	1.72	1.21	1.21	0.791	0.919	2.15	1.23		
Fluoride	mg/L	0.02 J	0.026 J	0.057 J	0.046 J	<0.01	--	--	<0.032	<0.032	<0.032	0.04 J	<0.032	0.04 J	--	<0.032	<0.05	0.0545 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	<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	--	<0.01	<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	--	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005		
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	0.00268 J	--	0.00281 J	0.00294 J	--	<0.002	0.00208 J	<0.002	<0.002	<0.002	0.00139	0.000957 J		
Thallium	mg/L	0.00039 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-26																						
		Date	08/17/2016	09/20/2016	10/12/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017	03/13/2017	05/09/2017	06/27/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	
Appendix III	Units																							
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	--	<0.02	0.0217 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	5.88	5.95	6.1	6.28	--	4.97	5.17	--	15.7	14.2	11.1	--	3.93	3.76	4.81	3.18	3.98	3.83	4.58	4.67	4.84		
Chloride	mg/L	2.44	2.54	2.67	2.94	--	2.92	3.21	--	2.5	3	3.6	--	2.2	1.5 J	2.5	2	2.34	2.04	2.16	2.83	2.97		
Fluoride	mg/L	0.159 J	0.126 J	0.1 J	0.016 J	--	<0.01	--	0.31	0.25	0.22	0.22	0.08 J	0.07 J	--	0.07 J	<0.05	0.0716 J	<0.06	<0.06	<0.06	<0.06		
pH_Field	pH	5.85	5.82	5.76	5.79	--	5.69	5.45	--	4.82	5.27	5.28	5.11	5.24	5.28	5.54	5.4	5.53	5.3	4.79	5.32	5.25		
Sulfate	mg/L	16.2	14.9	12.4	8.6	--	12.2	16	--	55	45	37	--	9.3	7.8	6	6.86	5.29	6.28	9.57	7.66	7.07		
TDS	mg/L	64	60	54.7	--	42	56	50.7	--	126	93.3	84	--	38.7	35.3	40.7	36.7	40.7	39.3	42	42.7	43.3		
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	0.001 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	0.0017 J	0.00283 J	0.00218 J	0.00124 J	--	0.0028 J	0.00257 J	--	0.00138 J	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000125 J	0.000157 J		
Barium	mg/L	0.0476	0.0436	0.0397	0.0369	--	0.0518	0.0662	--	0.0691	0.0603	--	0.0386	0.0356	--	0.0387	0.0419	0.0468	0.0439	0.0409	0.0351	0.0311		
Beryllium	mg/L	0.00161 J	0.00155 J	0.00138 J	0.00109 J	--	0.00141 J	0.00171 J	--	0.00226 J	0.0017 J	--	0.00147 J	0.000821 J	--	0.000757 J	0.00092 J	<0.0006	0.000756 J	0.000828 J	0.000453 J	0.000409 J		
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	0.000706 J	0.000429 J	--	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000474 J	0.000225 J		
Cobalt	mg/L	0.0167	0.0122	0.00839 J	0.00562 J	--	0.00655 J	0.0116	--	0.0167	0.0109	--	0.00278 J	0.00223 J	--	0.00202 J	<0.002	<0.002	<0.002	0.00279 J	0.000606	0.000669		
Combined Radium 226 + 228	pCi/L	0.66	0.582	-0.183 U	0.262 U	--	0.255 U	0.871	--	0.575	0.459	--	1.3	0.269 U	--	0.328 U	0.571	0.561	0.215 U	2.3	0.347 U	0.327 U		
Fluoride	mg/L	0.159 J	0.126 J	0.1 J	0.016 J	--	<0.01	--	0.31	0.25	0.22	0.22	0.08 J	0.07 J	--	0.07 J	<0.05	0.0716 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	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	6.99e-005 J	6.96e-005 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	<0.01	<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	--	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005		
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00247 J	--	0.0072 J	0.00443 J	--	<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	--	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-27																						
		Date	08/17/2016	09/20/2016	10/12/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017	03/14/2017	05/09/2017	06/27/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	
Appendix III	Units																							
Boron	mg/L	<0.02	<0.02	0.02 J	<0.02	--	<0.02	0.0287 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	1.1	0.771	0.711	0.641	--	0.797	0.655	--	0.538	0.413 J	0.504	--	0.339 J	0.776	0.746	0.526	0.638	1.15	0.884	0.745	1.11		
Chloride	mg/L	1.78	1.61	1.51	1.5	--	1.53	1.62	--	2.2	1.9 J	2	--	1.9 J	<1.4	1.9 J	2.18	1.7	1.9	1.63	2.46	2.45		
Fluoride	mg/L	0.039 J	0.01 J	<0.01	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06		
pH_Field	pH	5.47	5.22	5.1	5.07	--	5.3	5.12	--	4.83	4.87	4.71	4.96	5	4.94	4.9	4.96	4.85	4.29	4.75	4.73	4.52		
Sulfate	mg/L	0.928 J	0.478 J	0.727 J	0.448 J	--	0.627 J	1.34	--	<1.4	<1.4	<1.4	--	2.1 J	<1.4	<1.4	1.66	1.29	2.21	1.57	2.5	3.18		
TDS	mg/L	36.7	25.3	25	--	25	27.3	--	--	28.7	27.3	30.7	--	26	--	26	--	27.3	30.7	27.3	30.7	28.7		
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	0.00083 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.00137 J	<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	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005		
Barium	mg/L	0.0803	0.0679	0.0644	0.0628	--	0.0477	0.0482	--	0.0611	0.0492	--	0.0463	0.0298	--	0.0582	0.0499	0.0574	0.0827	0.0734	0.069	0.0607		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	0.000211 J	<0.0002	<0.0002	0.000216 J	--	<0.0002	0.000231 J	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0001 J	0.000184 J		
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000541 J	0.000321 J		
Cobalt	mg/L	0.00692 J	0.00232 J	<0.002	<0.002	--	<0.002	0.00203 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000139 J	0.00016 J		
Combined Radium 226 + 228	pCi/L	0.386 U	0.794	0.81	0.366 U	--	0.356 U	0.429 U	--	0.62	0.319 U	--	0.271 U	0.391	--	0.646	0.498	0.368 U	0.55	0.504 U	0.578 U	0.941 U		
Fluoride	mg/L	0.039 J	0.01 J	<0.01	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<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	<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	--	<0.01	<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	--	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005		
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508		
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005		

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-28																							
		Date	08/17/2016	09/20/2016	10/12/2016	10/31/2016	11/15/2016	11/29/2016	01/04/2017	01/24/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	
Appendix III	Units																								
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	0.0331 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	7.74	2.43	2.46	--	2.28	--	2.7	4.19	--	3.28	3.76	2.31	--	2.76	2.04	2	2.13	1.98	2.41	2.23	1.73	1.94		
Chloride	mg/L	1.77	1.56	1.54	--	1.53	--	1.58	1.71	--	2.1	2	1.5 J	--	1.2 J	<1.4	<1.4	1.2	1.26	1.32	1.38	1.27	1.42		
Fluoride	mg/L	0.055 J	0.021 J	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	0.0649 J	<0.06	<0.06	<0.06	<0.06		
pH_Field	pH	6.15	4.99	4.88	--	4.81	--	4.88	5.4	--	4.96	5.34	4.69	4.91	4.87	4.65	4.67	4.92	4.33	4.07	4.59	4.45	3.78		
Sulfate	mg/L	6.46	8.3	8.36	--	8.75	--	7.85	6.62	--	5.6	5.3	8.2	--	8.3	8.9	8.6	10.1	10.6	9.4	10.3	10.4	10.1		
TDS	mg/L	65.3	44	--	38.7	--	34	42	45.3	--	49.3	46	38.7	--	34.7	34.7	36	30	40	36	35.3	30	32		
Appendix IV																									
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00096 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000975 J	<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	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	9.03e-005 J		
Barium	mg/L	0.336	0.341	0.347	--	0.332	--	0.299	0.264	--	0.322	0.278	--	0.312	0.243	--	0.249	0.232	0.246	0.219	0.211	0.222	0.198		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	0.000742 J	0.000857 J	0.000912 J	--	0.000821 J	--	0.000718 J	0.000716 J	--	0.000746 J	0.00065 J	--	0.000752 J	0.000731 J	--	0.000646 J	0.000582 J	0.000573 J	0.00052 J	0.000476 J	0.000536	0.000421		
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000995 J	0.000708 J		
Cobalt	mg/L	0.00599 J	0.00466 J	0.00394 J	--	0.00296 J	--	0.00448 J	0.00259 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000452	0.000362		
Combined Radium 226 + 228	pCi/L	1.47	1.24	0.899	--	0.933	--	1.54	0.868	--	1.22	0.925	--	0.0271 U	0.792	--	0.926	1.08	0.995	0.307 U	0.797	1.5	0.779 U		
Fluoride	mg/L	0.055 J	0.021 J	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	0.0649 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	<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	--	<0.01	<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	--	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005		
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508		
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005		

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-29																							
		Date	08/16/2016	09/20/2016	10/11/2016	10/31/2016	11/15/2016	11/29/2016	01/04/2017	01/26/2017	03/13/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	
Appendix III	Units																								
Boron	mg/L	<0.02	<0.02	<0.02	--	0.0229 J	--	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	2.02	1.22	1.48	--	1.36	--	1.11	1.03	--	0.289 J	0.292 J	0.336 J	--	0.2 J	0.171 J	0.193 J	0.223 J	0.158 J	0.287 J	0.231 J	0.239 J	0.283 J		
Chloride	mg/L	2.21	2.12	2.24	--	6.65	--	2.15	2.31	--	2.3	2.1	2.8	--	1.8 J	<1.4	<1.4	1.07	1.19	1.09	1.05	1.25	1.42		
Fluoride	mg/L	0.05 J	0.015 J	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06		
pH_Field	pH	6.21	6.05	6.2	--	6.64	--	6.06	6.02	--	5.05	4.9	4.73	4.87	4.89	4.88	4.86	4.97	3.96	3.9	4.22	4.79	3.94		
Sulfate	mg/L	0.894 J	<0.3	<0.3	--	1.19	--	<0.3	0.6 J	--	<1.4	<1.4	<1.4	--	1.4 J	<1.4	<1.4	0.594 J	<0.5	0.694 J	0.608 J	<0.5	0.86 J		
TDS	mg/L	41.3	42.7	--	140	--	78	34	32.7	--	--	30.7	25.3	--	--	--	--	--	--	--	--	--	--	--	
Appendix IV																									
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00092 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	0.00199 J	0.00155 J	0.00231 J	--	0.0044 J	--	0.00123 J	0.00169 J	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	9.45e-005 J		
Barium	mg/L	0.0527	0.0698	0.0799	--	0.0479	--	0.0513	0.0674	--	0.0836	0.0661	--	0.05	0.0433	--	0.0379	0.0348	0.0404	0.0542	0.0442	0.0545	0.0554		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	0.000228 J	--	0.000277 J	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000204	0.000193 J		
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000393 J	0.000256 J		
Cobalt	mg/L	0.0122	0.012	0.0135	--	0.00938 J	--	0.00859 J	0.0104	--	0.0119	0.0106	--	0.0027 J	0.00317 J	--	0.00367 J	<0.002	0.00265 J	<0.002	0.00224 J	0.00145	0.0019		
Combined Radium 226 + 228	pCi/L	0.522	0.746	0.819	--	0.516	--	0.648 U	0.852	--	0.148 U	0.393	--	0.695	0.145 U	--	0.513 U	0.598	0.237 U	0.201 U	3.88	0.618 U	0.937 U		
Fluoride	mg/L	0.05 J	0.015 J	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<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	<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	--	<0.01	<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	--	<0.00025	<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	--	0.00308 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005		
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508		
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005		

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-30																							
		Date	08/16/2016	09/20/2016	10/11/2016	10/31/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	
Appendix III	Units																								
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	1.24	1.11	1.22	--	1.34	--	2.39	1.83	--	0.823	0.956	1.04	--	1.18	1.5	1.64	1.3	0.925	0.864	0.926	0.646	0.716		
Chloride	mg/L	2.54	2.51	2.34	--	2.1	--	2.44	2.37	--	2.8	2.1	3	--	2.3	1.5 J	1.4 J	2.28	3.72	3.89	3.8	4.38	4.46		
Fluoride	mg/L	0.036 J	<0.01	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06		
pH_Field	pH	5.39	5.37	5.39	--	5.33	--	5.49	5.48	--	5.11	5.29	5.09	5.25	5.12	5.19	5.12	5.16	4.11	4.44	4.76	5.02	4.01		
Sulfate	mg/L	0.702 J	<0.3	<0.3	--	<0.3	--	<0.3	0.493 J	--	<1.4	<1.4	<1.4	--	<1.4	<1.4	<1.4	<0.5	<0.5	<0.5	<0.5	<0.5	0.754 J		
TDS	mg/L	--	26.7	--	25.3	--	--	34.7	33.3	--	--	--	28	--	28.7	29.3	--	27.3	34	26.7	30	30	28.7		
Appendix IV																									
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.000701 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	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005		
Barium	mg/L	0.0376	0.0348	0.0396	--	0.0359	--	0.0238	0.029	--	0.0409	0.0303	--	0.0383	0.0633	--	0.0463	0.104	0.0855	0.0485	0.0529	0.0462	0.0329		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	8.19e-005 J	8.39e-005 J		
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000502 J	0.000326 J		
Cobalt	mg/L	0.00548 J	0.0026 J	0.00214 J	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000137 J	0.000112 J		
Combined Radium 226 + 228	pCi/L	0.434 U	0.51	0.166 U	--	0.589	--	0.659	0.227 U	--	0.436 U	0.197 U	--	0.896	0.342 U	--	0.928	1.3	0.995	0.00976 U	3.33	0.601 U	1.22 U		
Fluoride	mg/L	0.036 J	<0.01	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<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	<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	--	<0.01	<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	--	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005		
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508		
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005		

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-1																				
		Date	02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/04/2018	09/10/2018	11/06/2018	03/27/2019	09/10/2019	04/21/2020	08/17/2020	03/16/2021	08/17/2021
Appendix III	Units																					
Boron	mg/L	0.219	0.211	0.2	0.211	0.23	0.218	--	0.235	0.206	0.138	--	0.242	--	0.247	0.488	0.398	0.347	0.496	0.313	0.281	
Calcium	mg/L	204	152	183	197	186	193	--	184	184	182	--	157	219	186	73.8	147	90.5	81.5	109	103	
Chloride	mg/L	16	21.5	52.5	33.3	22.2	18.4	--	30	29	23	--	22	22	17	18	18.1	19.5	23.2	16.6	34.4	
Fluoride	mg/L	0.05 J	0.061 J	0.079 J	0.081 J	0.049 J	--	0.04 J	0.05 J	0.04 J	0.04 J	0.07 J	0.07 J	--	0.04 J	0.192	0.179	0.12	0.115	0.129	0.158	
pH_Field	pH	5.8	5.85	5.92	5.99	6.02	5.92	5.96	5.93	5.86	5.88	5.92	5.89	5.89	5.95	5.8	5.88	5.72	5.54	5.67	5.49	
Sulfate	mg/L	785	715	832	862	888	906	--	810	830	910	--	850	920	880	1090	992	874	919	933	745	
TDS	mg/L	1540	1200	1440	1420	1420	1350	--	1540	1470	1530	--	1370	1380	1450	1910	1740	1530	1590	1620	1340	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000799 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	0.0181	0.0178	0.016	0.0182	0.0186	0.0173	--	0.0176	0.0165	--	0.0201	0.0195	--	0.0189	0.0267	0.0226	0.0219	0.0265	0.0238	0.0206	
Barium	mg/L	0.0364	0.0344	0.0353	0.0395	0.0455	0.0428	--	0.0399	0.0348	--	0.0398	0.0314	--	0.0348	0.0286	0.0283	0.0206	0.0218	0.024	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	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000341 J	0.000336 J	
Cobalt	mg/L	0.0395	0.0452	0.0576	0.0573	0.0531	0.0539	--	0.057	0.0664	--	0.0652	0.0758	--	0.0898	0.176	0.104	0.206	0.195	0.257	0.24	
Combined Radium 226 + 228	pCi/L	1 U	1.0468 U	1.43	1.42	1.6	1.3	--	0.844	1.32	--	0.815	1.01	--	0.938	1.17	1.39	0.712	1.46	1.45	1.36	
Fluoride	mg/L	0.05 J	0.061 J	0.079 J	0.081 J	0.049 J	--	0.04 J	0.05 J	0.04 J	0.04 J	0.07 J	0.07 J	--	0.04 J	0.192	0.179	0.12	0.115	0.129	0.158	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	0.0194 J	<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	--	<0.00025	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000117 J	<6.8e-005	
Selenium	mg/L	0.00277 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00206 J	--	0.00206 J	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00163	0.00209	
Thallium	mg/L	0.000601 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000107 J	0.000124 J	

- Notes:**
1. mg/L - Milligrams per Liter
 2. pCi/L - picocuries per Liter
 3. J - Result is an estimated value
 4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-2																				
		Date	02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/04/2018	09/10/2018	11/06/2018	03/27/2019	09/09/2019	04/21/2020	08/17/2020	03/16/2021	08/17/2021
Appendix III	Units																					
Boron	mg/L	0.146	0.125	0.114	0.128	0.129	0.124	--	0.121	0.111	0.0915 J	--	0.134	--	0.131	0.138	0.157	0.14	0.152	0.134	0.131	
Calcium	mg/L	75	70.2	71.2	72.2	73.8	72.2	--	66.4	65.4	67.8	--	68.3	73.9	75.1	96.1	111	133	156	145	143	
Chloride	mg/L	14.7	14.3	14.6	14.7	14.8	15	--	16	15	15	--	16	17	17	14.8	14	12.3	13.1	11.6	12.7	
Fluoride	mg/L	0.09 J	0.092 J	0.108 J	0.105 J	0.062 J	--	<0.032	0.07 J	0.09 J	0.07 J	0.08 J	0.09 J	--	0.07 J	0.089 J	0.163	0.126	0.0753 J	0.185	0.0974 J	
pH_Field	pH	6.01	6.17	6.18	6.12	6.09	6.04	6.11	6.1	6.09	6.07	6.09	6.07	6	6.04	6.06	6.13	5.99	5.91	5.87	5.99	
Sulfate	mg/L	304	307	273	275	284	302	--	250	230	250	--	260	280	280	375	385	522	497	548	502	
TDS	mg/L	516	508	494	476	508	510	--	510	480	478	--	528	472	522	562	666	878	818	890	808	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00084 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	0.0142	0.0145	0.0112	0.0154	0.0113	0.0115	--	0.00989	0.00848	--	0.0106	0.0124	--	0.0085	0.0101	0.022	0.013	0.00768	0.0045	0.00514	
Barium	mg/L	0.0311	0.0334	0.029	0.0317	0.0339	0.0276	--	0.0285	0.0273	--	0.0292	0.0298	--	0.0286	0.0311	0.035	0.0335	0.0376	0.033	0.0347	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00013 J	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.0004 J	0.00267	
Cobalt	mg/L	0.00989 J	0.0106	0.011	0.0117	0.0117	0.00863 J	--	0.00975 J	0.0102	--	0.00924 J	0.00866 J	--	0.0101	0.0131	0.0154	0.0194	0.0249	0.0272	0.0296	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.758	0.638	0.701	0.515 U	--	0.393 U	0.374	--	0.334 U	0.64	--	0.803	0.77	0.3 U	0.663 U	0.817	1.05 U	2.01	
Fluoride	mg/L	0.09 J	0.092 J	0.108 J	0.105 J	0.062 J	--	<0.032	0.07 J	0.09 J	0.07 J	0.08 J	0.09 J	--	0.07 J	0.089 J	0.163	0.126	0.0753 J	0.185	0.0974 J	
Lead	mg/L	<0.001	<0.001	<0.001	0.00104 J	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000736	0.000591	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	8.04e-005 J	0.00017 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.000542 J	
Thallium	mg/L	0.000388 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000101 J	0.000132 J	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-3																				
		Date	02/17/2016	04/12/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/04/2018	09/12/2018	11/06/2018	03/27/2019	09/09/2019	04/20/2020	08/17/2020	03/16/2021	08/17/2021
Appendix III	Units																					
Boron	mg/L	0.0288 J	0.0293 J	0.0279 J	0.0332 J	0.0328 J	0.0262 J	--	0.0298 J	0.0226 J	<0.02	--	0.0296 J	--	0.0268 J	0.0316 J	0.035 J	<0.03	0.0636 J	0.0445 J	0.0518 J	
Calcium	mg/L	106	95.2	86.1	89.7	90.6	94.2	--	90.3	80.7	84	--	98.8	109	110	111	98.5	91.2	78.9	66.6	55.4	
Chloride	mg/L	25.2	24.6	24.5	24.2	24.4	24.6	--	27	26	26	--	27	26	26	24.8	23.8	24.5	24.6	24.4	21.3	
Fluoride	mg/L	0.08 J	0.083 J	0.118 J	0.109 J	0.066 J	--	0.07 J	0.09 J	0.1	0.12	0.09 J	0.1	--	0.1	0.13	0.121	0.112	0.148	0.23	0.184	
pH_Field	pH	6.29	6.33	6.4	6.36	6.38	6.34	6.42	6.35	6.32	6.32	6.39	6.4	6.35	6.34	6.44	6.22	6.4	5.85	6.23	6.13	
Sulfate	mg/L	<0.3	0.49 J	0.544 J	0.332 J	<0.3	<0.3	--	2.1 J	<1.4	<1.4	--	1.4 J	<1.4	<1.4	6.64	6.56	10.5	17.3	7.62	12	
TDS	mg/L	358	393	381	348	379	354	--	368	368	370	--	369	354	354	362	371	371	361	340	297	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000906 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	0.00668	0.00827	0.00768	0.00798	0.008	0.00722	--	0.00766	0.00745	--	0.00699	0.00731	--	0.00685	0.00596	0.00806	0.00751	0.00909	0.0112	0.0119	
Barium	mg/L	0.0896	0.0994	0.104	0.102	0.11	0.0942	--	0.105	0.104	--	0.0989	0.0936	--	0.0936	0.0951	0.111	0.109	0.139	0.159	0.15	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000347 J	0.000324 J	
Cobalt	mg/L	0.00507 J	0.0047 J	0.00372 J	0.0039 J	0.00415 J	0.00383 J	--	0.00396 J	0.00336 J	--	0.00442 J	0.0038 J	--	0.00439 J	0.00463 J	0.00413 J	0.00396 J	<0.002	0.00076	0.000388	
Combined Radium 226 + 228	pCi/L	1 U	1 U	1.06	0.972	0.802	1.1	--	0.74	0.867	--	0.905	0.954	--	1.27	1.47	1.12	0.899	0.738	0.553 U	1.09	
Fluoride	mg/L	0.08 J	0.083 J	0.118 J	0.109 J	0.066 J	--	0.07 J	0.09 J	0.1	0.12	0.09 J	0.1	--	0.1	0.13	0.121	0.112	0.148	0.23	0.184	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000959 J	0.000974 J	
Thallium	mg/L	0.00038 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-5																				
		Date	02/17/2016	04/12/2016	05/31/2016	08/17/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/27/2019	09/11/2019	04/21/2020	08/12/2020	03/16/2021	08/23/2021
Appendix III	Units																					
Boron	mg/L	0.478	0.467	0.443	0.477	0.489	0.475	--	0.479	0.448	0.407	--	0.489	--	0.508	0.502	0.595	0.72	0.695	0.694	0.628	
Calcium	mg/L	59.8	56.1	56.6	61	61.3	61	--	61.7	66.1	78.9	--	64.8	72.2	78.9	69.1	90.8	93	92.2	99.7	87.6	
Chloride	mg/L	16.4	16.6	16.8	16.4	15.2	15.1	--	17	17	17	--	15	14	13	16.1	11.6	12.3	13	10.9	11.6	
Fluoride	mg/L	0.22 J	0.214 J	0.232 J	0.225 J	0.19 J	--	0.22	0.21	0.21	0.25	0.23	0.24	--	0.22	0.208	0.2	0.224	0.221	0.282	0.322	
pH_Field	pH	6.63	6.59	6.57	6.72	6.69	6.61	6.55	6.65	6.66	6.66	6.73	6.63	6.65	6.65	6.59	6.36	6.5	6.36	6.64	6.5	
Sulfate	mg/L	<0.3	0.483 J	0.518 J	3.63	15.6	28.9	--	25	45	96	--	36	48	93	33.4	149	163	132	167	155	
TDS	mg/L	238	316	320	325	333	336	--	317	373	432	--	347	370	409	328	455	494	433	510	481	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000728 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.353	0.402	0.33	0.369	0.378	0.386	--	0.406	0.353	--	0.425	0.454	--	0.432	0.455	0.406	0.42	0.415	0.473	0.368	
Barium	mg/L	0.397	0.434	0.354	0.397	0.485	0.472	--	0.512	0.48	--	0.269	0.27	--	0.306	0.251	0.323	0.138	0.134	0.143	0.139	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000285 J	0.000272 J	
Cobalt	mg/L	0.0216	0.0205	0.0196	0.0169	0.0157	0.00858 J	--	0.00755 J	0.0069 J	--	0.00471 J	0.00481 J	--	0.00545	0.00614	0.00767	0.00601	0.00678	0.00857	0.00645	
Combined Radium 226 + 228	pCi/L	1 U	1.01205 U	2.11	2.28	1.83	1.92	--	3.05	2.24	--	1.01	1.39	--	1.72	1.56	1.46	0.882	2.08	1.71	2.11	
Fluoride	mg/L	0.22 J	0.214 J	0.232 J	0.225 J	0.19 J	--	0.22	0.21	0.21	0.25	0.23	0.24	--	0.22	0.208	0.2	0.224	0.221	0.282	0.322	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.0883	0.0862	0.085	0.093	0.0928	0.094	--	0.0865	0.0879	--	0.113	0.101	--	0.116	0.0988	0.117	0.13	0.132	0.149	0.116	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00347 J	0.00297 J	0.00261 J	0.0033 J	0.0041 J	0.00336 J	--	0.0031 J	0.00356 J	--	0.0042 J	0.00293 J	--	0.00318 J	0.00284 J	0.00328 J	0.00255 J	0.00292 J	0.00358	0.0031	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000779 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-6																				
		Date	02/17/2016	04/12/2016	05/31/2016	08/17/2016	10/11/2016	01/24/2017	03/14/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021
Appendix III	Units																					
Boron	mg/L	2.12	2.06	1.97	2.01	1.91	1.62	--	1.62	1.71	1.7	--	1.56	--	1.6	1.63	1.83	1.77	1.86	1.49	1.36	
Calcium	mg/L	128	115	118	120	119	110	--	104	98	108	--	121	119	124	148	164	142	162	119	129	
Chloride	mg/L	31.8	28.9	28.7	32.2	34.2	38.1	--	41	36	35	--	32	36	30	31.9	27.3	37.4	39.6	47.5	56.6	
Fluoride	mg/L	0.17 J	0.203 J	0.212 J	0.19 J	0.15 J	--	0.18	0.19	0.18	0.22	0.22	0.23	--	0.22	0.253	0.227	0.218	0.223	0.17	0.161	
pH_Field	pH	6.46	6.45	6.51	6.54	6.53	6.44	6.4	6.4	6.46	6.47	6.53	6.49	6.48	6.48	6.54	6.55	6.54	6.49	6.43	6.22	
Sulfate	mg/L	132	130	111	95.8	101	129	--	120	100	95	--	98	100	97	120	140	153	163	187	210	
TDS	mg/L	640	610	626	628	636	696	--	687	622	616	--	582	616	576	682	744	742	788	716	792	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000792 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.00141 J	<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	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000303	0.000279	
Barium	mg/L	0.0455	0.0455	0.0407	0.0434	0.0514	0.0476	--	0.0543	0.0402	--	0.0463	0.051	--	0.0527	0.0682	0.0789	0.0728	0.0784	0.0664	0.0737	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00278	0.000181 J	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000347 J	0.000262 J	
Cobalt	mg/L	<0.002	<0.002	0.00389 J	0.00234 J	0.00202 J	<0.002	--	<0.002	<0.002	--	<0.002	0.00237 J	--	0.00258 J	0.00223 J	0.00306 J	0.00228 J	0.00278 J	0.00367	0.00419	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.453 U	0.381 U	0.139 U	0.496	--	0.278 U	0.724	--	0.214 U	0.176 U	--	1.39	0.904	1.14	0.679 U	0.96	1.12 U	0.645 U	
Fluoride	mg/L	0.17 J	0.203 J	0.212 J	0.19 J	0.15 J	--	0.18	0.19	0.18	0.22	0.22	0.23	--	0.22	0.253	0.227	0.218	0.223	0.17	0.161	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.0591	--	0.0519	0.0403 J	--	0.0201 J	0.0218 J	--	0.0141 J	0.0192 J	0.0267	0.0518	0.0197 J	0.013 J	0.00951 J	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.0024	0.00211	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000639 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-7																				
		Date	02/17/2016	04/13/2016	05/31/2016	08/17/2016	10/12/2016	01/25/2017	03/14/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021
Appendix III	Units																					
Boron	mg/L	0.503	0.478	0.452	0.492	0.487	0.529	--	0.533	0.501	0.51	--	0.605	--	0.677	0.727	0.764	0.793	0.561	0.397	0.216	
Calcium	mg/L	158	151	158	152	150	137	--	111	108	113	--	186	209	175	193	188	155	147	160	123	
Chloride	mg/L	62.7	57.8	55.6	53.3	51.2	44.8	--	44	45	43	--	49	52	58	71	67	66.2	123	80.7	91.7	
Fluoride	mg/L	0.07 J	0.081 J	0.103 J	0.078 J	0.041 J	--	0.07 J	0.09 J	0.08 J	0.09 J	0.08 J	0.08 J	--	0.08 J	0.106	0.086 J	0.0951 J	0.103	0.0949 J	0.1	
pH_Field	pH	6.45	6.49	6.43	6.43	6.46	6.43	6.41	6.41	6.46	6.46	6.45	6.36	6.38	6.37	6.39	6.39	6.39	6.14	6.45	6.4	
Sulfate	mg/L	311	330	324	306	296	243	--	210	210	220	--	390	360	390	430	409	318	296	347	234	
TDS	mg/L	892	1010	1100	1070	1040	972	--	740	914	924	--	1060	1020	1050	1100	1100	1010	1050	1090	930	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000839 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	0.000747 J	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00015 J	9.91e-005 J	
Barium	mg/L	0.0772	0.0886	0.0823	0.0789	0.0883	0.067	--	0.0644	0.0582	--	0.0669	0.0672	--	0.0739	0.0796	0.0887	0.0762	0.0816	0.083	0.0782	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000351 J	0.000363 J	
Cobalt	mg/L	<0.002	0.00218 J	0.00328 J	0.00217 J	0.00225 J	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	0.00277 J	0.0024 J	0.0034 J	0.00206 J	0.0046 J	0.00181	0.00333	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.658	0.936	0.668	0.718	--	0.56	0.526	--	0.803	0.577	--	1.51	0.841	0.569 U	0.549 U	1.04	0.545 U	0.865 U	
Fluoride	mg/L	0.07 J	0.081 J	0.103 J	0.078 J	0.041 J	--	0.07 J	0.09 J	0.08 J	0.09 J	0.08 J	0.08 J	--	0.08 J	0.106	0.086 J	0.0951 J	0.103	0.0949 J	0.1	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000156 J	0.000128 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.00042 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-8																				
		Date	02/16/2016	04/13/2016	06/01/2016	08/17/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021
Appendix III	Units																					
Boron	mg/L	1.54	1.56	1.49	1.57	1.65	1.89	--	1.94	1.72	1.63	--	1.73	--	1.8	1.81	1.82	1.89	1.94	1.57	1.23	
Calcium	mg/L	75.9	74.1	76.4	74.2	75.7	76.1	--	78.6	76.4	74.1	--	58	64.9	68.1	72	91	84.8	98.6	100	86.4	
Chloride	mg/L	67.9	64.1	66.3	56.7	56.1	53.6	--	48	49	52	--	38	37	41	39.7	56.1	69.5	70.5	106	90.8	
Fluoride	mg/L	0.08 J	0.088 J	0.109 J	0.089 J	0.048 J	--	0.08 J	0.1	0.09 J	0.11	0.11	0.11	--	0.11	0.162	0.113	0.114	0.116	0.109	0.141	
pH_Field	pH	6.16	6.29	6.33	6.27	6.3	6.27	6.27	6.25	6.25	6.32	6.36	6.3	6.36	6.31	6.32	6.31	6.06	6.06	6.31	6.16	
Sulfate	mg/L	49.4	51.7	51.2	42.9	39.5	31.3	--	30	35	40	--	25	23	30	21.6	37.4	43.3	44.5	71.7	71.4	
TDS	mg/L	656	634	672	624	586	596	--	576	612	640	--	474	496	514	546	602	638	658	746	690	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000833 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	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000248	0.000271	
Barium	mg/L	0.117	0.113	0.105	0.105	0.111	0.0963	--	0.103	0.0935	--	0.0808	0.0789	--	0.0855	0.0911	0.11	0.116	0.119	0.15	0.122	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000241	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000346 J	0.000313 J	
Cobalt	mg/L	0.0129	0.0139	0.0139	0.0138	0.0138	0.0115	--	0.0125	0.0137	--	0.00698 J	0.00478 J	--	0.00651	0.00445 J	0.0108	0.0111	0.00975	0.00707	0.00898	
Combined Radium 226 + 228	pCi/L	1 U	1.08755 U	0.884	1.06	0.269 U	1.12	--	0.887	0.908	--	0.131 U	0.564	--	0.34 U	0.507	0.898	1.09	0.6 U	1.6	1.67	
Fluoride	mg/L	0.08 J	0.088 J	0.109 J	0.089 J	0.048 J	--	0.08 J	0.1	0.09 J	0.11	0.11	0.11	--	0.11	0.162	0.113	0.114	0.116	0.109	0.141	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	0.0101 J	0.0143 J	0.0166 J	0.0272 J	--	0.0436 J	0.0401 J	--	0.0309 J	0.0286 J	--	0.0371	0.0537	0.0928	0.0582	0.0511	0.0249	0.0155 J	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	8.12e-005 J	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-9																				
		Date	02/16/2016	04/13/2016	06/01/2016	08/17/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/18/2020	03/09/2021	08/24/2021
Appendix III	Units																					
Boron	mg/L	0.412	0.376	0.338	0.412	0.46	0.586	--	0.661	0.673	0.723	--	0.954	--	1.11	1.14	1.23	1.27	1.24	1.12	1.14	
Calcium	mg/L	33.9	32.5	33.9	50.3	53.3	59.9	--	66.5	69.8	72	--	95.1	122	107	132	116	111	109	82.1	93.1	
Chloride	mg/L	15.6	14.3	12.6	14.4	16.4	20	--	24	25	25	--	25	26	25	25.3	28	24.2	31.4	53.9	90.7	
Fluoride	mg/L	0.16 J	0.15 J	0.19 J	0.171 J	0.137 J	--	0.15	0.17	0.16	0.19	0.19	0.19	--	0.2	0.223	0.178	0.181	0.177	0.147	0.164	
pH_Field	pH	6.5	6.32	6.43	6.46	6.53	6.45	6.39	6.39	6.4	6.47	6.54	6.47	6.53	6.49	6.47	6.43	6.25	6.21	6.14	6.08	
Sulfate	mg/L	45.2	43.9	32	31.9	39.6	44	--	32	34	34	--	22	33	76	138	115	133	115	107	139	
TDS	mg/L	226	202	224	290	315	332	--	361	396	402	--	448	462	506	586	586	578	542	532	624	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000847 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	0.00507	0.00556	0.00625	0.00648	0.00772	0.00728	--	0.00818	0.00718	--	0.00946	0.00921	--	0.0098	0.00969	0.0108	0.0102	0.0108	0.0105	0.00695	
Barium	mg/L	0.0637	0.0552	0.0555	0.0745	0.0897	0.0864	--	0.105	0.0897	--	0.118	0.111	--	0.141	0.175	0.206	0.175	0.165	0.16	0.168	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000381 J	0.000302 J	
Cobalt	mg/L	0.00869 J	0.00936 J	0.00976 J	0.012	0.0127	0.0109	--	0.0129	0.0125	--	0.013	0.0113	--	0.0145	0.0167	0.0177	0.0166	0.0164	0.0247	0.0323	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.532	1.07	1.07	1.46	--	1.21	0.821	--	0.232 U	0.722	--	0.82	1.49	1.75	1.31	1.59	1.16 U	1.43	
Fluoride	mg/L	0.16 J	0.15 J	0.19 J	0.171 J	0.137 J	--	0.15	0.17	0.16	0.19	0.19	0.19	--	0.2	0.223	0.178	0.181	0.177	0.147	0.164	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	7.84e-005 J	<6.8e-005	
Lithium	mg/L	0.0359 J	0.0276 J	0.0296 J	0.0398 J	0.0433 J	0.0366 J	--	0.039 J	0.0345 J	--	0.0349 J	0.0338 J	--	0.0616	0.0931	0.128	0.0693	0.0591	0.0417	0.0383	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-10																				
		Date	02/16/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/27/2019	09/10/2019	04/22/2020	08/18/2020	03/15/2021	08/24/2021
Appendix III	Units																					
Boron	mg/L	1.44	0.373	1.26	1.34	1.34	1.38	--	1.23	1.05	1.17	--	1.31	--	1.26	1.11	1.27	1.23	1.37	1.79	1.93	
Calcium	mg/L	76.3	30.5	65.9	65.6	63.4	64.2	--	62.6	60.8	61.4	--	65.5	66.1	68.5	71.8	69.3	62.9	74.4	73.8	83.4	
Chloride	mg/L	18.4	19	19.2	17.7	16.8	18.6	--	22	20	20	--	18	19	19	17.1	16.5	17.6	21.3	23.2	22.4	
Fluoride	mg/L	0.23 J	0.236 J	0.255 J	0.238 J	0.198 J	--	0.22	0.25	0.09 J	0.26	0.26	0.24	--	0.25	0.206	0.226	0.224	0.203	0.324	0.277	
pH_Field	pH	6.29	6.21	6.45	6.58	6.6	6.47	6.54	6.53	6.49	6.49	6.59	6.52	6.53	6.51	6.53	6.33	6.44	6.33	6.29	6.04	
Sulfate	mg/L	9.03	10.7	10.2	9.1	7.24	9.71	--	11	10	14	--	39	29	45	66.2	50.5	63.2	58.6	68.5	71.6	
TDS	mg/L	312	324	333	327	312	286	--	326	304	348	--	346	335	342	347	351	338	376	406	423	
Appendix IV																						
Antimony	mg/L	0.000786 J	<0.0006	<0.0006	<0.0006	<0.0006	0.00128 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	0.0123	0.0143	0.0125	0.0128	0.0145	0.0122	--	0.0135	0.0131	--	0.0146	0.0233	--	0.0152	0.014	0.0132	0.0121	0.0121	0.0125	0.0129	
Barium	mg/L	0.179	0.185	0.158	0.16	0.17	0.156	--	0.169	0.144	--	0.172	0.173	--	0.171	0.167	0.199	0.186	0.223	0.261	0.287	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000357 J	0.000356 J	
Cobalt	mg/L	0.0135	0.0155	0.0146	0.016	0.0154	0.0139	--	0.0144	0.0134	--	0.0148	0.0139	--	0.015	0.014	0.0191	0.0233	0.0287	0.0475	0.0514	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.899	0.82	0.92	1.2	--	0.665	0.29 U	--	0.558	0.698	--	0.568	0.988	1.1	1.11	1.08	1.12 U	1.45	
Fluoride	mg/L	0.23 J	0.236 J	0.255 J	0.238 J	0.198 J	--	0.22	0.25	0.09 J	0.26	0.26	0.24	--	0.25	0.206	0.226	0.224	0.203	0.324	0.277	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.115	0.135	0.127	0.124	0.101	0.109	--	0.101	0.0954	--	0.111	0.104	--	0.11	0.115	0.112	0.123	0.124	0.155	0.198	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.0101	0.0127	0.0106	0.00991 J	0.00919 J	0.0101	--	0.00984 J	0.0102	--	0.011	0.00752 J	--	0.00748 J	0.00778 J	0.00757 J	0.00747 J	0.00808 J	0.0103	0.0132	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-11																				
		Date	02/17/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/14/2017	05/09/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/10/2018	11/05/2018	03/27/2019	09/10/2019	04/22/2020	08/18/2020	03/10/2021	08/25/2021
Appendix III	Units																					
Boron	mg/L	0.581	0.61	0.615	0.554	0.537	0.562	--	0.528	0.313	0.241	--	0.311	--	0.262	0.298	0.141	0.447	0.358	0.502	0.601	
Calcium	mg/L	18.6	17.8	17.7	18.4	17.3	16.6	--	18	22.6	23.9	--	25.7	27.2	24.1	31	27.7	36.7	37.6	39.9	57.6	
Chloride	mg/L	16.6	17	19	17	16.2	18	--	23	24	15	--	16	13	13	14.2	8.88	20.5	16.2	17.1	14.4	
Fluoride	mg/L	0.11 J	0.119 J	0.134 J	0.116 J	0.076 J	--	0.09 J	0.11	0.17	0.14	0.14	0.16	--	0.15	0.104	0.191	0.167	0.165	0.0749 J	0.135	
pH_Field	pH	6.04	6.07	6.03	6.09	6.06	5.94	6.08	6.07	6.02	6.19	6.21	6.27	6.33	6.26	6.37	5.91	6.26	6	5.97	6.38	
Sulfate	mg/L	40.2	33.1	28.1	38.5	38.3	32	--	44	88	110	--	79	80	81	83.2	87.2	58.7	81.1	73.2	126	
TDS	mg/L	158	161	173	173	173	161	--	195	227	229	--	200	183	193	211	201	249	260	274	358	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000896 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	0.00437 J	0.00695	0.0063	0.0068	0.00709	0.00718	--	0.00819	0.00664	--	0.00733	0.00637	--	0.00195 J	0.00573	0.00378 J	0.00616	0.00457 J	0.00317	0.00518	
Barium	mg/L	0.105	0.106	0.0907	0.0989	0.113	0.103	--	0.125	0.103	--	0.0718	0.0643	--	0.0588	0.0678	0.0651	0.0967	0.0866	0.0637	0.104	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000347	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000267 J	
Cobalt	mg/L	0.0504	0.0448	0.0405	0.0464	0.0489	0.0417	--	0.0471	0.0664	--	0.0438	0.036	--	0.0171	0.0292	0.02	0.0319	0.0298	0.0197	0.0507	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.145 U	0.521 U	0.669 U	0.789	--	0.647	0.415	--	0.864	0.244 U	--	0.682	0.564	0.57	0.502 U	0.457 U	0.666 U	0.729 U	
Fluoride	mg/L	0.11 J	0.119 J	0.134 J	0.116 J	0.076 J	--	0.09 J	0.11	0.17	0.14	0.14	0.16	--	0.15	0.104	0.191	0.167	0.165	0.0749 J	0.135	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.0777	0.073	0.0721	0.075	0.0703	0.0683	--	0.0646	0.109	--	0.11	0.102	--	0.0641	0.119	0.124	0.126	0.109	0.0826	0.132	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00651 J	0.00646 J	0.00546 J	0.00582 J	0.00589 J	0.00556 J	--	0.0058 J	0.00616 J	--	0.00962 J	0.00984 J	--	0.00944 J	0.0151	0.0205	0.0147	0.0146	0.00701	0.0106	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000869 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.7e-005 J	9.4e-005 J	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-12																				
		Date	02/16/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018	09/11/2018	11/05/2018	03/26/2019	09/10/2019	04/21/2020	08/18/2020	03/10/2021	08/25/2021
Appendix III	Units																					
Boron	mg/L	0.273	0.276	0.291	0.268	0.252	0.167	--	0.32	0.231	0.191	--	0.26	--	0.127	0.111	0.153	0.872	0.748	0.389	0.393	
Calcium	mg/L	34.6	32.2	28.8	24	27.8	33.7	--	35.5	28	26.4	--	30.1	27.4	28.8	33.7	30.5	51	42.9	55.1	45.2	
Chloride	mg/L	10.8	8.2	7.74	12.5	15.7	24.4	--	15	12	10	--	11	12	17	14.5	10.9	9.49	6.46	9.3	7.43	
Fluoride	mg/L	0.16 J	0.163 J	0.19 J	0.219 J	0.163 J	--	0.13	0.15	0.17	0.22	0.19	0.19	--	0.2	0.196	0.26	0.198	0.223	0.161	0.188	
pH_Field	pH	6.84	7.03	6.94	6.84	6.75	6.87	6.9	6.85	6.85	6.86	6.94	6.99	6.87	6.81	6.95	6.69	6.96	6.98	6.89	7.04	
Sulfate	mg/L	119	122	94.3	67.1	94.1	101	--	91	71	80	--	62	63	74	92.3	89.3	121	89	155	118	
TDS	mg/L	264	238	206	180	223	271	--	236	198	187	--	199	184	210	230	218	291	250	331	263	
Appendix IV																						
Antimony	mg/L	0.000933 J	<0.0006	0.000834 J	0.00118 J	0.000899 J	0.00136 J	--	<0.0006	0.000683 J	--	0.000656 J	<0.0006	--	<0.0008	0.00121 J	<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	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000251	0.000234	
Barium	mg/L	0.0231	0.02	0.0175	0.0182	0.0221	0.0187	--	0.0232	0.0178	--	0.0197	0.0204	--	0.0255	0.0218	0.0233	0.0325	0.021	0.0373	0.0323	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000224 J	0.000346 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00118	0.000938	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.21 U	0.697	0.421 U	0.265 U	--	-0.132 U	0.493	--	1.89	0.114 U	--	0.048 U	0.381	0.434 U	-0.0655 U	0.135 U	0.481 U	0.113 U	
Fluoride	mg/L	0.16 J	0.163 J	0.19 J	0.219 J	0.163 J	--	0.13	0.15	0.17	0.22	0.19	0.19	--	0.2	0.196	0.26	0.198	0.223	0.161	0.188	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.502	0.544	0.47	0.282	0.217	0.108	--	0.132	0.126	--	0.0786	0.067	--	0.0912	0.0532	0.0598	0.166	0.0892	0.125	0.117	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.107	0.101	0.0915	0.127	0.11	0.0741	--	0.0883	0.109	--	0.0903	0.0757	--	0.0906	0.11	0.134	0.0947	0.0938	0.0611	0.0547	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.00281	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-13																							
		Date	02/16/2016	04/12/2016	05/31/2016	08/16/2016	10/12/2016	11/01/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/27/2018	02/28/2018	06/06/2018	09/11/2018	11/05/2018	03/26/2019	09/11/2019	04/20/2020	08/18/2020	03/15/2021	08/25/2021	
Appendix III	Units																								
Boron	mg/L	0.26	0.26	0.318	0.322	0.244	--	0.188	--	0.281	0.153	0.112	--	--	0.244	--	0.104	0.213	0.535	0.642	0.501	0.523	0.438		
Calcium	mg/L	29.8	23.3	25.9	25.5	29.5	--	33.6	--	30.4	26	22.3	--	--	23.7	26.8	29.4	34.1	53.9	40.3	95.3	68.9	74.2		
Chloride	mg/L	6.52	4.47	10.8	16.6	18.5	--	22	--	10	9.4	9.3	--	--	6.1	14	18	4.7	12.3	4.7	8.24	7.68	6.37		
Fluoride	mg/L	0.14 J	0.119 J	0.132 J	0.177 J	0.149 J	--	--	0.16	0.18	0.18	0.19	--	0.14	0.13	--	0.15	0.0775 J	0.118	0.0844 J	0.108	0.0737 J	0.111		
pH_Field	pH	6.4	6.41	6.22	6.41	6.42	--	6.76	6.82	6.7	6.58	6.4	--	6.72	6.57	6.64	6.69	6.54	6.22	6.68	6.76	6	6.66		
Sulfate	mg/L	113	86.7	83.1	59.3	99.3	--	113	--	74	71	72	--	--	48	62	81	92.4	128	76.5	203	204	181		
TDS	mg/L	242	176	189	192	--	244	274	--	191	176	163	--	--	138	185	208	198	316	201	444	374	359		
Appendix IV																									
Antimony	mg/L	0.000972 J	<0.0006	0.000869 J	0.00128 J	0.00114 J	--	0.00384	--	0.00323	0.00406	--	--	0.00199 J	0.00261 J	--	0.00275 J	0.00219 J	0.00261 J	0.00338	0.00388	0.0016	0.00263		
Arsenic	mg/L	0.0141	0.0144	0.00984	0.0126	0.0117	--	0.00316 J	--	0.00393 J	0.00406 J	--	--	0.00278 J	0.00352 J	--	0.00497 J	0.00251 J	0.00664	0.00181 J	0.00176 J	0.00207	0.00302		
Barium	mg/L	0.113	0.0912	0.0963	0.0878	0.112	--	0.114	--	0.1	0.0874	--	--	0.0984	0.0951	--	0.113	0.109	0.275	0.104	0.199	0.0699	0.114		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005		
Chromium	mg/L	<0.002	<0.002	<0.002	0.00381 J	<0.002	--	<0.002	--	<0.002	0.00219 J	--	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000311 J	0.000261 J		
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000312	6.87e-005 J		
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.313 U	0.435 U	-0.0137 U	--	0.309 U	--	0.42	0.373	--	1.25	--	0.258 U	--	0.441 U	0.471	0.557 U	0.256 U	0.568 U	0.537 U	0.3 U		
Fluoride	mg/L	0.14 J	0.119 J	0.132 J	0.177 J	0.149 J	--	--	0.16	0.18	0.18	0.19	--	0.14	0.13	--	0.15	0.0775 J	0.118	0.0844 J	0.108	0.0737 J	0.111		
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005		
Lithium	mg/L	0.51	0.508	0.454	0.371	0.282	--	0.0904	--	0.144	0.146	--	--	0.0738	0.148	--	0.0914	0.123	0.246	0.201	0.42	0.308	0.5		
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		
Molybdenum	mg/L	0.0769	0.0442	0.0481	0.0956	0.114	--	0.078	--	0.0484	0.0598	--	--	0.0346	0.0253	--	0.044	0.0262	0.0226	0.0924	0.145	0.0146	0.0319		
Selenium	mg/L	0.0227	0.0701	0.0129	0.0208	0.00431 J	--	0.00779 J	--	0.00905 J	0.0072 J	--	--	0.00826 J	0.00496 J	--	<0.002	0.0239	<0.002	0.0125	0.00416 J	0.0175	0.00826		
Thallium	mg/L	<0.0002	<0.0002	0.000212 J	0.000449 J	0.000532 J	--	0.000309 J	--	0.00021 J	0.000244 J	--	--	<0.0002	0.000239 J	--	0.000623 J	0.000215 J	0.00214	0.000433 J	0.00114	0.000506	0.00124		

- Notes:**
 1. mg/L - Milligrams per Liter
 2. pCi/L - picocuries per Liter
 3. J - Result is an estimated value
 4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-14																					
		Date	02/16/2016	04/12/2016	05/31/2016	08/17/2016	10/12/2016	11/01/2016	01/25/2017	03/14/2017	05/09/2017	06/28/2017	08/29/2017	02/27/2018	06/06/2018	09/12/2018	11/07/2018	03/27/2019	09/10/2019	04/21/2020	08/11/2020	03/09/2021	08/25/2021
Appendix III	Units																						
Boron	mg/L	0.739	0.733	0.603	0.509	0.569	--	0.671	--	0.622	0.695	1	--	1.01	--	0.908	1.33	1.49	1.55	1.44	1.81	1.33	
Calcium	mg/L	44.4	43.2	43	35.9	31.1	--	42.7	--	48.1	55	83.6	--	167	109	105	162	125	113	118	115	134	
Chloride	mg/L	16.4	15.9	13.6	12.8	16.3	--	16.4	--	19	17	17	--	14	14	15	14.9	13.5	14.8	12.7	10.4	11.5	
Fluoride	mg/L	0.13 J	0.137 J	0.149 J	0.147 J	0.115 J	--	--	0.11	0.14	0.13	0.14	0.13	0.15	--	0.19	0.248	0.209	0.254	0.278	0.263	0.239	
pH_Field	pH	6.21	6.37	6.42	6.42	6.38	--	6.37	6.3	6.43	6.4	6.32	6.28	6.25	6.42	6.42	6.41	6.11	6.31	6.02	6.48	6.21	
Sulfate	mg/L	108	114	114	85.4	53.5	--	75.4	--	84	120	180	--	450	200	180	335	193	168	242	165	346	
TDS	mg/L	340	298	309	269	--	252	259	--	285	348	528	--	932	180	528	834	658	628	688	618	774	
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	0.00062 J	<0.0006	<0.0006	--	0.00106 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	0.0202	0.0214	0.0156	0.0153	0.0254	--	0.0194	--	0.0361	0.022	--	0.0265	0.0372	--	0.0289	0.0264	0.0263	0.0178	0.0207	0.0292	0.0224	
Barium	mg/L	0.0447	0.043	0.0383	0.0332	0.0454	--	0.0567	--	0.069	0.0764	--	0.0908	0.064	--	0.0575	0.0768	0.0685	0.102	0.0806	0.125	0.11	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000357 J	0.000234 J	
Cobalt	mg/L	0.00732 J	0.00785 J	0.00712 J	0.00545 J	0.00497 J	--	0.00454 J	--	0.00488 J	0.00805 J	--	0.016	0.024	--	0.0124	0.0303	0.0278	0.0339	0.0373	0.0302	0.0436	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.624	0.49 U	-0.0237 U	--	0.455 U	--	0.451	0.63	--	1.59	0.943	--	0.888	1.1	0.852	0.653	1.64	1.28 U	1.01	
Fluoride	mg/L	0.13 J	0.137 J	0.149 J	0.147 J	0.115 J	--	--	0.11	0.14	0.13	0.14	0.13	0.15	--	0.19	0.248	0.209	0.254	0.278	0.263	0.239	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.632	0.615	0.613	0.444	0.387	--	0.516	--	0.526	0.626	--	0.562	1.06	--	0.604	1.11	0.765	0.672	0.712	0.791	0.985	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00839 J	0.00918 J	0.00877 J	0.0236	0.0289	--	0.00501 J	--	0.0108	0.00752 J	--	0.0121	0.0101	--	0.0155	0.0167	0.0125	0.0141	0.0117	0.0205	0.0127	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-15																					
		Date	02/17/2016	04/12/2016	05/31/2016	08/16/2016	10/11/2016	11/01/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/10/2019	04/20/2020	08/12/2020	03/10/2021	08/25/2021
Appendix III	Units																						
Boron	mg/L	0.454	0.444	0.424	0.438	0.456	--	0.458	--	0.486	0.454	0.441	--	0.543	--	0.614	0.699	0.73	0.791	0.813	0.825	0.829	
Calcium	mg/L	47.7	44.4	45.3	49.4	52.7	--	49.4	--	47.4	44.9	44.4	--	45.1	48.5	49.2	53.9	57.2	61	72.2	67.4	73.2	
Chloride	mg/L	11.8	12.6	12.9	10.2	10.2	--	11.2	--	14	14	14	--	13	14	14	12.8	12.8	12	11.4	11.9	10.2	
Fluoride	mg/L	0.09 J	0.107 J	0.145 J	0.135 J	0.096 J	--	--	0.09 J	0.11	0.1	0.13	0.09 J	0.13	--	0.12	0.119	0.122	0.14	0.147	0.115	0.168	
pH_Field	pH	6.02	6.17	6.15	6.21	6.14	--	6.11	6.09	6.11	6.09	6.1	6.11	6.05	6.18	6.09	6.1	5.82	6.16	6.1	6.08	6.12	
Sulfate	mg/L	187	188	183	196	216	--	183	--	160	150	160	--	160	140	160	158	150	142	160	136	152	
TDS	mg/L	408	334	351	367	--	372	354	--	332	331	317	--	318	321	331	342	358	369	401	397	403	
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.00111 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	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000349	0.000464	
Barium	mg/L	0.022	0.0242	0.0224	0.0243	0.0291	--	0.0223	--	0.0281	0.0223	--	0.0271	0.0269	--	0.0271	0.0285	0.0348	0.0338	0.0352	0.0365	0.0385	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00012 J	0.0001 J	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000301 J	0.000268 J	
Cobalt	mg/L	0.0169	0.0158	0.014	0.0153	0.0162	--	0.0132	--	0.014	0.0163	--	0.0157	0.0148	--	0.0158	0.018	0.0201	0.0189	0.0184	0.0189	0.0194	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.41 U	0.399 U	0.00389 U	--	0.35 U	--	0.0662 U	0.793	--	3.99	-0.365 U	--	0.391 U	0.535	0.3 U	0.693	0.983	0.335 U	0.314 U	
Fluoride	mg/L	0.09 J	0.107 J	0.145 J	0.135 J	0.096 J	--	--	0.09 J	0.11	0.1	0.13	0.09 J	0.13	--	0.12	0.119	0.122	0.14	0.147	0.115	0.168	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.806	0.719	0.735	0.699	0.727	--	0.689	--	0.603	0.558	--	0.571	0.492	--	0.547	0.575	0.6	0.604	0.594	0.63	0.622	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000697 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.78e-005 J	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-16																					
		Date	02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/12/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/10/2019	04/20/2020	08/11/2020	03/09/2021	08/17/2021
Appendix III	Units																						
Boron	mg/L	1.47	1.48	1.22	1.31	1.37	--	1.38	--	1.41	1.43	1.36	--	1.36	--	1.47	1.38	1.69	1.83	1.93	1.94	1.98	
Calcium	mg/L	57	62.5	54.4	56.2	56.6	--	59.1	--	62.5	63.6	65.7	--	66.8	76.3	77.4	90	86.3	90.8	101	101	103	
Chloride	mg/L	12.5	13.6	14.2	13.6	13.8	--	14.2	--	18	17	16	--	15	17	15	9.27	12.7	12.1	12.1	12	10.4	
Fluoride	mg/L	0.2 J	0.173 J	0.253 J	0.224 J	0.187 J	--	--	0.23	0.23	0.22	0.28	0.23	0.28	--	0.24	0.316	0.267	0.245	0.294	0.286	0.286	
pH_Field	pH	6.18	6.28	6.36	6.37	6.32	--	6.29	6.27	6.3	6.28	6.34	6.33	6.29	6.36	6.37	6.34	6.35	6.43	6.7	6.29	6.33	
Sulfate	mg/L	87.4	92.7	111	98.3	99.3	--	85.4	--	74	75	87	--	87	63	97	123	68	49.6	55	43.9	46.6	
TDS	mg/L	310	372	360	366	--	374	380	--	381	404	420	--	408	415	447	481	453	461	482	524	490	
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000935 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	0.0788	0.0759	0.292	0.105	0.0831	--	0.0472	--	0.0814	0.0693	--	0.0852	0.0648	--	0.0701	0.0952	0.0786	0.105	0.0698	0.113	0.0765	
Barium	mg/L	0.0368	0.044	0.0357	0.0377	0.0431	--	0.0418	--	0.0449	0.042	--	0.0595	0.0471	--	0.0574	0.0626	0.0754	0.0921	0.0948	0.102	0.101	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000444 J	0.000404 J	
Cobalt	mg/L	0.016	0.0139	0.0117	0.0133	0.0147	--	0.0122	--	0.0133	0.0141	--	0.014	0.0114	--	0.0141	0.0177	0.0162	0.0146	0.0148	0.0162	0.0155	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.515	0.843	0.397 U	--	0.269 U	--	0.454	1.25	--	1.17	0.337 U	--	0.661	1.18	0.516 U	0.493 U	1.48	1.2 U	0.49 U	
Fluoride	mg/L	0.2 J	0.173 J	0.253 J	0.224 J	0.187 J	--	--	0.23	0.23	0.22	0.28	0.23	0.28	--	0.24	0.316	0.267	0.245	0.294	0.286	0.286	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000109 J	0.000108 J	
Lithium	mg/L	0.626	0.594	0.556	0.557	0.589	--	0.522	--	0.552	0.523	--	0.544	0.49	--	0.54	0.558	0.581	0.62	0.599	0.692	0.647	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000113 J	0.000145 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000687 J	<0.0002	0.000272 J	0.000278 J	0.000322 J	--	0.000265 J	--	0.000327 J	0.000301 J	--	0.000321 J	0.000288 J	--	0.000354 J	0.00041 J	0.000396 J	0.00032 J	0.000329 J	0.000369	0.000356	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-17																					
		Date	02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/12/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/09/2019	04/21/2020	08/11/2020	03/09/2021	08/17/2021
Appendix III	Units																						
Boron	mg/L	1.66	1.64	1.66	1.83	2.12	--	1.94	--	1.99	2.18	1.71	--	1.76	--	1.74	1.74	2.33	1.97	2.03	2.45	2.18	
Calcium	mg/L	30.7	39.5	47.7	45.6	57.6	--	69.4	--	66.2	63.8	75.1	--	77.4	58.9	81.6	84.7	66.4	74.4	73	118	78.3	
Chloride	mg/L	14.6	14.9	15.9	19.5	18.5	--	19	--	24	24	18	--	15	23	11	9.52	15.4	11.1	15.4	14.3	14.3	
Fluoride	mg/L	0.53	0.437	0.376	0.362	0.377	--	--	0.41	0.36	0.38	0.38	0.58	0.41	--	0.45	0.573	0.477	0.565	0.515	0.628	0.494	
pH_Field	pH	6.32	6.44	6.24	6.34	6.42	--	6.53	--	6.33	6.38	6.31	6.57	6.21	6.43	6.47	6.52	5.84	6.61	6.71	6.52	6.57	
Sulfate	mg/L	72.3	123	144	50.1	72.6	--	63.4	--	82	44	230	--	230	33	220	161	57.3	78	46.7	95.8	32.8	
TDS	mg/L	328	373	442	392	--	469	464	--	492	516	646	--	644	476	634	516	500	490	522	684	506	
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000997 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000897 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.177	0.271	0.251	0.253	0.243	--	0.363	--	0.499	0.489	--	0.532	0.382	--	0.299	0.32	0.356	0.689	0.581	0.86	0.937	
Barium	mg/L	0.0402	0.0637	0.0786	0.0634	0.0995	--	0.117	--	0.158	0.139	--	0.199	0.149	--	0.202	0.242	0.319	0.306	0.29	0.352	0.254	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000216 J	0.000216 J	
Cobalt	mg/L	0.0101	0.0109	0.0134	0.0134	0.0204	--	0.0157	--	0.0179	0.0166	--	0.0251	0.0456	--	0.0321	0.0192	0.0121	0.0158	0.0122	0.0151	0.0109	
Combined Radium 226 + 228	pCi/L	1 U	1.4698 U	0.972	1.43	0.246 U	--	0.918	--	1.27	1.51	--	1.05	1.07	--	1.05	1.57	1.29	0.859	2.14	2.27	1.97	
Fluoride	mg/L	0.53	0.437	0.376	0.362	0.377	--	--	0.41	0.36	0.38	0.38	0.58	0.41	--	0.45	0.573	0.477	0.565	0.515	0.628	0.494	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.612	0.694	0.675	0.571	0.622	--	0.752	--	0.622	0.597	--	0.73	0.531	--	0.583	0.595	0.571	0.629	0.552	0.864	0.585	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.066	0.0835	0.0835	0.0838	0.111	--	0.111	--	0.0566	0.0702	--	0.0957	0.0363	--	0.0418	0.062	0.0681	0.0694	0.0506	0.067	0.0468	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.00067 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
 4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-18																					
		Date	02/17/2016	04/12/2016	06/01/2016	08/15/2016	10/12/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/09/2019	04/21/2020	08/12/2020	03/09/2021	08/17/2021
Appendix III	Units																						
Boron	mg/L	1.94	2.03	1.74	1.66	1.77	--	1.49	--	1.65	1.66	1.53	--	1.36	--	1.48	1.63	1.73	1.51	1.53	1.52	1.45	
Calcium	mg/L	89.6	96.2	90.2	84.4	82.9	--	76.4	--	77.4	75.4	78	--	66.3	67.8	72.7	91.5	83.2	81.8	85.9	82	77.4	
Chloride	mg/L	22.3	22.1	22	22.4	22.1	--	23.2	--	26	25	25	--	25	23	26	25.4	25.6	26.3	24.5	25.2	25.1	
Fluoride	mg/L	0.15 J	0.168 J	0.178 J	0.149 J	0.12 J	--	--	0.17	0.17	0.18	0.21	0.17	0.17	--	0.17	0.192	0.157	0.171	0.198	0.205	0.212	
pH_Field	pH	6.23	6.3	6.24	6.25	6.26	--	6.3	--	6.34	6.32	6.38	6.31	6.16	6.29	6.31	6.3	6.28	6.31	6.62	6.39	6.38	
Sulfate	mg/L	60.2	68.2	61.4	56	36.6	--	12.3	--	10	9.7	7.8	--	13	28	11	21.3	17.8	19.2	13.8	11.6	12.2	
TDS	mg/L	464	491	468	454	--	422	408	--	358	382	392	--	352	339	368	406	406	429	390	412	397	
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000984 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	0.133	0.134	0.11	0.116	0.109	--	0.0825	--	0.0776	0.0672	--	0.063	0.0661	--	0.0509	0.0477	0.0498	0.0478	0.0485	0.0505	0.0509	
Barium	mg/L	0.12	0.131	0.114	0.113	0.126	--	0.126	--	0.138	0.12	--	0.143	0.128	--	0.109	0.117	0.101	0.0926	0.0815	0.0849	0.0763	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000346 J	0.00023 J	
Cobalt	mg/L	0.0227	0.0209	0.02	0.0225	0.0206	--	0.015	--	0.0141	0.0144	--	0.0136	0.0138	--	0.0158	0.0161	0.0174	0.0173	0.0152	0.017	0.0175	
Combined Radium 226 + 228	pCi/L	1 U	1 U	1.55	1.85	0.481	--	0.889	--	1.01	1.17	--	0.702	0.999	--	0.913	1.35	1.08	0.888	1.17	1.11 U	2.04	
Fluoride	mg/L	0.15 J	0.168 J	0.178 J	0.149 J	0.12 J	--	--	0.17	0.17	0.18	0.21	0.17	0.17	--	0.17	0.192	0.157	0.171	0.198	0.205	0.212	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.67	0.655	0.666	0.558	0.56	--	0.374	--	0.443	0.451	--	0.343	0.353	--	0.369	0.378	0.408	0.386	0.326	0.364	0.335	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000362	0.000397	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000404 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
 4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-21																				
		Date	02/16/2016	04/13/2016	06/01/2016	08/16/2016	10/12/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018	09/10/2018	11/05/2018	03/26/2019	09/10/2019	04/21/2020	08/18/2020	03/10/2021	08/25/2021
Appendix III	Units																					
Boron	mg/L	0.286	0.26	0.283	0.292	0.254	0.133	--	0.304	0.243	0.249	--	0.245	--	0.151	0.0834 J	0.16	0.586	0.211	0.528	0.288	
Calcium	mg/L	40.4	32.2	29.3	25.4	30.7	36.8	--	36.1	26.9	29.4	--	30.2	28.8	29.7	32.4	28.4	43.1	25.5	44.9	31	
Chloride	mg/L	9.95	7.33	6.97	12	15.4	24.7	--	17	11	12	--	9.7	12	16	17.2	11	10.1	5.54	20.4	10.4	
Fluoride	mg/L	0.18 J	0.191 J	0.201 J	0.218 J	0.171 J	--	0.16	0.17	0.18	0.23	0.2	0.19	--	0.22	0.219	0.194	0.173	0.18	0.113	0.117	
pH_Field	pH	7.15	7.1	6.76	6.99	6.89	6.84	--	6.83	6.98	6.8	6.87	6.94	6.74	6.66	6.84	6.58	6.81	6.31	6.26	6.51	
Sulfate	mg/L	125	119	99.2	71.9	93.9	103	--	100	69	77	--	81	64	68	92	63.1	99	63.4	51.7	76.1	
TDS	mg/L	264	226	231	181	225	277	--	255	175	218	--	207	197	200	218	198	265	179	296	207	
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00107 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000964 J	<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	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000216	0.000143 J	
Barium	mg/L	0.0379	0.0291	0.0254	0.0385	0.0486	0.0371	--	0.0454	0.0352	--	0.0376	0.0355	--	0.0509	0.047	0.0568	0.0763	0.0517	0.111	0.0865	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	7.02e-005 J	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000333 J	0.000274 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00204	0.00147	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.126 U	0.477	0.137 U	0.55	--	0.182 U	0.228 U	--	0.293 U	-0.056 U	--	0.637	0.405	0.0889 U	0.271 U	-0.0105 U	0.418 U	0.305 U	
Fluoride	mg/L	0.18 J	0.191 J	0.201 J	0.218 J	0.171 J	--	0.16	0.17	0.18	0.23	0.2	0.19	--	0.22	0.219	0.194	0.173	0.18	0.113	0.117	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.513	0.532	0.513	0.301	0.22	0.107	--	0.113	0.0962	--	0.0594	0.0469 J	--	0.0902	0.0531	0.0862	0.0782	0.0718	0.146	0.0872	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.0433	0.0567	0.0565	0.0791	0.0767	0.0398	--	0.0467	0.0833	--	0.0643	0.0579	--	0.0548	0.071	0.0609	0.0562	0.0505	0.0123	0.00789	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000106 J	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
 2. pCi/L - picocuries per Liter
 3. J - Result is an estimated value
 4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-25																					
		Date	02/17/2016	04/12/2016	06/01/2016	08/17/2016	10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018	09/12/2018	11/06/2018	03/27/2019	09/10/2019	04/22/2020	08/11/2020	03/10/2021	08/24/2021
Appendix III	Units																						
Boron	mg/L	0.0922 J	0.0935 J	0.0826 J	0.092 J	0.0976 J	--	0.0877 J	--	0.0953 J	0.0835 J	0.0914 J	--	0.102	--	0.0995 J	0.113	0.105	0.104	0.11	0.146	0.115	
Calcium	mg/L	10.22	10	9.87	8.88	9.22	--	8.72	--	8.56	7.16	8.32	--	9.05	8.98	9.21	9.77	9.28	11.3	10.7	29.3	25.9	
Chloride	mg/L	22.9	22.2	22.3	22.1	21.8	--	21.8	--	23	22	22	--	20	20	21	18.4	17.7	17.1	16.7	25.3	25.3	
Fluoride	mg/L	0.02 J	0.021 J	0.051 J	0.037 J	<0.01	--	--	<0.032	<0.032	0.04 J	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	0.104	0.0914 J	
pH_Field	pH	5.36	5.31	5.35	5.38	5.31	--	5.29	--	5.29	5.27	5.27	5.28	5.21	5.23	5.28	5.27	5.15	5.26	4.81	5.71	5.25	
Sulfate	mg/L	28.7	32.5	31.9	30.5	32.3	--	33.5	--	33	35	37	--	47	41	48	62.4	66	76.1	79.5	70.3	66.6	
TDS	mg/L	144	140	139	142	--	128	124	--	136	145	139	--	153	156	153	178	182	195	193	246	224	
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.00111 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	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00033	0.000279	
Barium	mg/L	0.0895	0.0966	0.0872	0.0875	0.1	--	0.0856	--	0.093	0.0829	--	0.0958	0.0892	--	0.0807	0.0901	0.101	0.11	0.111	0.0797	0.0988	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.000715 J	--	<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	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	9.04e-005 J	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.0003 J	0.000284 J	
Cobalt	mg/L	0.00683 J	0.00656 J	0.00637 J	0.00659 J	0.00687 J	--	0.00522 J	--	0.00646 J	0.00721 J	--	0.00771 J	0.00712 J	--	0.00791	0.0114	0.0127	0.0133	0.0126	0.0115	0.0117	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.1 U	0.372 U	0.277 U	--	0.585	--	0.489	0.333	--	1.08	0.016 U	--	0.0751 U	0.309 U	0.578	0.218 U	0.511 U	1.03 U	0.693 U	
Fluoride	mg/L	0.02 J	0.021 J	0.051 J	0.037 J	<0.01	--	--	<0.032	<0.032	0.04 J	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	0.104	0.0914 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	<0.001	<0.001	<0.001	8.84e-005 J	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	8.43e-005 J	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	0.000232 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-31																							
		Date	08/16/2016	09/19/2016	10/11/2016	11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/27/2019	09/11/2019	04/22/2020	08/11/2020	03/15/2021	08/23/2021	
Appendix III	Units																								
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	0.0282 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	39.5	34.5	32.4	--	26.5	--	22.6	19.5	--	15.7	13.8	11.1	--	9.12	7.5	7.39	7.65	6.96	5.92	7.46	5.9	7.11		
Chloride	mg/L	5.32	5.29	5.26	--	5.28	--	5.18	5.41	--	5.8	5.4	6	--	5.2	5.5	5.1	5.26	5.31	5.37	5.45	5.47	6.37		
Fluoride	mg/L	0.087 J	0.045 J	0.034 J	--	<0.01	--	<0.01	--	<0.032	0.05 J	0.05 J	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06		
pH_Field	pH	7.13	6.94	6.82	--	6.57	--	6.56	6.41	--	6.41	6.14	6.08	5.99	5.93	5.86	5.89	5.95	5.85	5.75	5.63	5.61	5.67		
Sulfate	mg/L	1.78	2.06	2.33	--	2.31	--	2.81	3.34	--	2.9 J	3.4 J	3.7 J	--	3.7 J	2.2 J	3.1 J	3.55	3.83	3.78	4.33	3.74	4		
TDS	mg/L	142	121	--	103	--	84	89.3	83.3	--	31.3	67.3	64	--	50	53.3	66	48.7	52.7	49.3	52	49.3	49.3		
Appendix IV																									
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.000928 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	0.00185 J	0.00121 J	0.00111 J	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000111 J	<6.8e-005		
Barium	mg/L	0.0226	0.0202	0.0219	--	0.0215	--	0.019	0.0167	--	0.0246	0.0238	--	0.0231	0.0228	--	0.0211	0.025	0.0267	0.0285	0.0264	0.0316	0.0317		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005		
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000468 J	0.000418 J		
Cobalt	mg/L	<0.002	0.00242 J	0.0024 J	--	<0.002	--	0.00217 J	0.00239 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000624	0.000603		
Combined Radium 226 + 228	pCi/L	1.34	0.561 U	0.118 U	--	0.984	--	0.473 U	-0.422 U	--	0.706	0.412	--	0.314 U	0.218 U	--	0.566 U	0.29 U	0.28 U	0.0983 U	0.767	0.817 U	0.345 U		
Fluoride	mg/L	0.087 J	0.045 J	0.034 J	--	<0.01	--	<0.01	--	<0.032	0.05 J	0.05 J	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<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	<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	--	<0.01	<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	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		
Molybdenum	mg/L	0.00201 J	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	7.41e-005 J	<6.8e-005		
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508		
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005		

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-32																								
		Date	08/16/2016	09/19/2016	10/11/2016	11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/24/2017	03/14/2017	05/10/2017	05/31/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/05/2018	03/27/2019	09/11/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021	
Appendix III	Units																									
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	9.33	9.26	9.31	--	9.17	--	9.66	9.67	--	9.81	--	9.88	10.3	--	11.4	10.5	10.5	11.7	9.95	9.87	9.48	2.02	2.15		
Chloride	mg/L	4.24	4.13	4.07	--	4.08	--	4.06	4.4	--	4.4	--	4	4.8	--	3.8	4.1	3.9	3.86	4.21	4	4.17	5.57	5.61		
Fluoride	mg/L	0.054 J	0.023 J	0.011 J	--	<0.01	--	<0.01	--	<0.032	0.05 J	--	0.04 J	0.04 J	0.04 J	0.04 J	--	<0.032	<0.05	0.0518 J	<0.06	<0.06	<0.06	<0.06		
pH_Field	pH	6	6	6.02	--	5.98	--	6.03	5.9	--	6	--	6.05	6.13	6.1	6.05	6.07	6.01	6.15	5.87	5.92	5.84	4.57	4.17		
Sulfate	mg/L	2.06	1.44	1.38	--	1.15	--	1.57	2.06	--	2.1 J	--	2.7 J	2.6 J	--	3.1 J	1.6 J	2.4 J	3.22	2.66	2.51	2.54	8.5	9.3		
TDS	mg/L	49.3	44.7	--	48	--	40.7	49.3	48.7	--	46.7	--	55.3	57.3	--	52.7	60	53.3	56	55.3	52.7	49.3	46	64.7		
Appendix IV																										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00091 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	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000142 J	0.000192 J		
Barium	mg/L	0.0134	0.0125	0.0128	--	0.0129	--	0.0116	0.0118	--	0.0142	--	0.0127	--	0.0135	0.0126	--	0.0123	0.0138	0.0147	0.0133	0.0127	0.0692	0.0764		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	--	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005		
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000431 J	0.000385 J		
Cobalt	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000908	0.00101		
Combined Radium 226 + 228	pCi/L	0.951	0.242 U	0.34 U	--	0.447 U	--	0.729	0.184 U	--	--	0.454	-0.111 U	--	0.146 U	-0.128 U	--	0.0946 U	0.5	-0.464 U	0.474 U	3.18	1.11 U	1.09		
Fluoride	mg/L	0.054 J	0.023 J	0.011 J	--	<0.01	--	<0.01	--	<0.032	0.05 J	--	0.04 J	0.04 J	0.04 J	0.04 J	--	<0.032	<0.05	0.0518 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	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000121 J	0.000173 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	<0.01	<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	--	<0.00025	--	<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	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005		
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.000592 J		
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005		

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-33																						
		Date	08/16/2016	09/19/2016	10/11/2016	11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/25/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/27/2019	09/11/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021
Appendix III	Units																							
Boron	mg/L	0.0268 J	0.0225 J	0.0304 J	--	0.0355 J	--	0.0304 J	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	5.54	3.01	2.74	--	2.47	--	2.94	2.91	--	2.27	2.2	2.26	--	2.97	2.6	2.42	2.75	2.17	3.15	1.78	9.77	9.48	
Chloride	mg/L	4.88	4.45	4.36	--	4.42	--	5.18	5.66	--	8	7.2	6.9	--	4.2	4.2	4.5	4.33	4.16	5.66	4.46	4.18	4.38	
Fluoride	mg/L	0.061 J	0.018 J	<0.01	--	<0.01	--	<0.01	--	<0.032	0.06 J	0.07 J	0.08 J	0.07 J	0.1	--	0.08 J	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	6.34	6.11	5.99	--	5.83	--	5.39	5.09	--	4.63	4.76	4.85	4.69	4.62	4.79	4.62	4.68	4.57	4.71	4.65	5.83	6.04	
Sulfate	mg/L	9.33	11.2	12.6	--	12.4	--	14.3	15.2	--	12	13	15	--	17	16	15	15.1	14.5	9.64	13.6	2.76	2	
TDS	mg/L	101	80	--	78	--	68.7	60.7	54.7	--	60.7	58	66.7	--	71.3	66.7	61.3	65.3	69.3	62.7	62	48	50.7	
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00112 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	0.00122 J	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	
Barium	mg/L	0.0304	0.0215	0.0236	--	0.0206	--	0.0409	0.0455	--	0.0798	0.0679	--	0.0856	0.0875	--	0.0726	0.0912	0.0824	0.102	0.0601	0.0144	0.0141	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000679 J	0.000497 J	
Cobalt	mg/L	0.00923 J	0.00539 J	0.00506 J	--	0.00399 J	--	0.0037 J	0.0077 J	--	0.00291 J	0.00247 J	--	<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	0.534 U	0.238 U	0.158 U	--	0.641	--	0.834	0.605	--	0.563	0.937	--	0.475	1.65	--	1.55	1.83	1.02	1.08	3.41	0.771 U	1.01 U	
Fluoride	mg/L	0.061 J	0.018 J	<0.01	--	<0.01	--	<0.01	--	<0.032	0.06 J	0.07 J	0.08 J	0.07 J	0.1	--	0.08 J	<0.05	<0.05	<0.06	<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	<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	--	<0.01	<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	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-PZ-4						GC-AP-MW-34HA						GC-AP-MW-35H						
		Date	09/12/2018	09/10/2019	04/20/2020	08/17/2020	03/10/2021	08/17/2021	01/17/2019	09/10/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021	01/16/2019	09/11/2019	04/21/2020	08/18/2020	03/16/2021	08/24/2021
Appendix III	Units																			
Boron	mg/L	--	0.293	0.308	0.344	0.338	0.296	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	0.0284 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	172	160	147	153	157	149	25.3	12.8	12	9.68	12.6	11.1	19.6	22.2	47.3	22.9	24.9	21	21
Chloride	mg/L	12	10.9	9.87	9.78	8.48	8.13	7.87	5.54	7.6	2.07	5.81	4.36	3.1	1.15	3.62	1.12	1.91	2.79	2.79
Fluoride	mg/L	--	0.0831 J	0.132	0.0959 J	0.118	0.117	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.05	0.082 J	0.16	0.0766 J	0.0841 J	0.0681 J	0.0681 J
pH_Field	pH	6.13	5.79	5.99	5.94	6.04	5.64	--	4.87	5.45	4.78	5.32	5.54	--	5.6	6.54	6.03	6.16	6.08	6.08
Sulfate	mg/L	400	499	482	493	510	569	47.9	27.1	26.8	13.5	25.6	24.8	34.9	30	44.5	28.8	32.4	22.9	22.9
TDS	mg/L	714	854	824	826	876	900	156	112	114	66	96	89.3	85.3	100	176	100	111	94	94
Appendix IV																				
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	--	0.00176 J	0.0029 J	0.00191 J	0.00597	0.0021	<0.001	<0.001	<0.001	<0.001	0.000158 J	0.00042	<0.001	<0.001	<0.001	<0.001	0.0001 J	0.000105 J	0.000105 J
Barium	mg/L	--	0.0787	0.0801	0.0718	0.0759	0.0781	0.0714	0.0554	0.0578	0.0467	0.0532	0.0478	0.0492	0.0369	0.0473	0.033	0.04	0.0336	0.0336
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<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	0.000247 J	0.00033 J	<0.002	<0.002	<0.002	<0.002	0.000473 J	0.000298 J	<0.002	<0.002	<0.002	<0.002	0.000912 J	0.000753 J	0.000753 J
Cobalt	mg/L	--	0.146	0.157	0.148	0.167	0.211	0.033	0.0131	0.00675	0.00222 J	0.00198	0.00159	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	--	1.89	1.59	1.16	1.36 U	1.76	0.628	0.656	0.473 U	2.1	0.858 U	0.336 U	0.0207 U	0.734	0.423 U	0.636 U	0.536 U	0.492 U	0.492 U
Fluoride	mg/L	--	0.0831 J	0.132	0.0959 J	0.118	0.117	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.05	0.082 J	0.16	0.0766 J	0.0841 J	0.0681 J	0.0681 J
Lead	mg/L	--	<0.001	<0.001	<0.001	<6.8e-005	0.000224	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<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	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Selenium	mg/L	--	<0.002	0.00237 J	<0.002	0.0013	0.00321	<0.002	<0.002	<0.002	<0.002	0.000704 J	<0.000508	0.00367 J	0.00404 J	0.00451 J	0.00268 J	0.00362	0.00237	0.00237
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	7.61e-005 J	0.000106 J	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-36H						GC-AP-MW-37H					GC-AP-MW-38H						
		Date	01/30/2019	09/11/2019	04/22/2020	08/11/2020	03/09/2021	08/24/2021	01/15/2019	04/22/2020	08/19/2020	03/16/2021	08/24/2021	01/14/2019	09/11/2019	04/22/2020	08/19/2020	03/10/2021	08/24/2021
Appendix III	Units																		
Boron	mg/L	0.164	0.147	0.143	0.145	0.159	0.139	0.224	0.186	0.229	0.159	0.179	0.148	0.175	0.118	0.135	0.104	0.105	
Calcium	mg/L	2.85	1.16	0.941	1.06	0.99	1.07	231	175	143	148	143	123	84	83.9	96	96.2	109	
Chloride	mg/L	3.04	3.95	4.4	3.28	2.9	2.91	13.4	10.3	13.9	13	9.19	37.9	3.82	2.25	3.4	2.3	4.46	
Fluoride	mg/L	0.264	0.289	0.279	0.325	0.365	0.318	0.0512 J	0.197	0.141	0.263	0.194	0.0841 J	0.142	0.135	0.149	0.131	0.197	
pH_Field	pH	--	7.2	7.72	7.69	7.79	7.06	--	6.23	5.95	6.32	6.12	--	6.55	6.66	6.57	6.67	5.84	
Sulfate	mg/L	11	11	10.9	8.73	10.4	9.79	780	510	402	368	383	103	60.5	66.5	70	44.8	68.2	
TDS	mg/L	184	182	199	184	185	181	1210	977	834	756	742	381	280	290	308	308	345	
Appendix IV																			
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	
Arsenic	mg/L	0.0034 J	0.00222 J	0.00168 J	0.00223 J	0.00291	0.00235	<0.001	0.00768	0.00618	0.00685	0.00811	<0.001	<0.001	<0.001	<0.001	<6.8e-005	0.00012 J	
Barium	mg/L	0.00776 J	0.00323 J	0.0027 J	0.00393 J	0.00297	0.00261	0.0454	0.0248	0.0591	0.0347	0.037	0.0814	0.0581	0.0607	0.0678	0.0719	0.0872	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	0.0155	<0.002	<0.002	0.00143	0.000961 J	<0.002	<0.002	<0.002	0.000381 J	0.000259 J	0.0117	<0.002	<0.002	<0.002	0.000421 J	0.000381 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.000522	0.000321	0.0407	0.0327	0.0176	0.0225	0.0228	<0.002	0.00363 J	<0.002	<0.002	0.000455	0.000706	
Combined Radium 226 + 228	pCi/L	0.479 U	0.412 U	-0.103 U	0.223 U	0.296 U	0.253 U	0.354 U	0.273 U	0.994	0.954 U	0.282 U	0.359 U	1.22	0.413 U	0.347 U	0.566 U	0.417 U	
Fluoride	mg/L	0.264	0.289	0.279	0.325	0.365	0.318	0.0512 J	0.197	0.141	0.263	0.194	0.0841 J	0.142	0.135	0.149	0.131	0.197	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	0.000447	0.000306	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<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	<0.007105	<0.007105	0.0141 J	0.0134 J	0.0108 J	0.0107 J	0.0112 J	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000166 J	8.67e-005 J	<0.002	<0.002	<0.002	0.000373	0.000369	0.00574 J	0.00203 J	<0.002	<0.002	0.000699	0.000476	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	0.018	0.0155	0.0111	0.0108	0.0124	0.0148	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<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
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-39H						GC-AP-MW-40H						GC-AP-MW-41H						GC-AP-MW-42H						
		Date	01/15/2019	09/11/2019	04/22/2020	08/11/2020	03/09/2021	08/24/2021	01/15/2019	09/10/2019	04/20/2020	08/12/2020	03/10/2021	08/25/2021	01/15/2019	09/11/2019	04/29/2020	08/18/2020	03/15/2021	08/25/2021	01/15/2019	09/11/2019	04/21/2020	08/19/2020	03/09/2021	
Appendix III	Units																									
Boron	mg/L	1.68	1.67	1.89	1.84	1.81	2	0.702	0.734	0.821	0.807	0.807	0.627	0.762	0.758	0.699	0.689	0.659	0.632	1.73	1.88	1.76	1.26	1.26		
Calcium	mg/L	97.6	91.6	102	111	108	115	60.7	97.5	88.2	115	109	108	115	72.1	70.8	66.7	70.4	78.3	70	57.2	56.5	59.3	69.5		
Chloride	mg/L	14.3	14.1	12.9	7.85	8.06	7.38	13	10.5	10.8	8.34	6.74	6.66	16.6	16.5	16.1	15.9	15.9	14.4	19.9	20.7	19.9	18.2	18.4		
Fluoride	mg/L	0.465	0.443	0.446	0.494	0.458	0.508	0.0981 J	0.18	0.0952 J	0.145	0.112	0.142	0.0859 J	0.0609 J	0.0857 J	0.092 J	0.0721 J	0.074 J	<0.05	0.063 J	0.0701 J	0.077 J	0.0697 J		
pH_Field	pH	--	6.17	6.42	6.7	6.47	6.13	--	5.61	5.63	5.83	5.99	5.91	--	5.96	6.37	5.93	6.43	6.13	--	6.2	6.01	6.27	6.29		
Sulfate	mg/L	48.5	44.1	31.7	51.7	32.2	34.1	224	291	247	285	292	330	96	79.1	77.2	76.6	80.9	147	9.73	9.43	12.4	55.7	74.8		
TDS	mg/L	597	454	512	526	524	490	392	576	534	588	602	562	433	334	317	299	321	376	334	299	299	371	375		
Appendix IV																										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507		
Arsenic	mg/L	0.0514	0.053	0.0533	0.0635	0.0697	0.069	<0.001	<0.001	<0.001	<0.001	0.000443	0.000434	0.002 J	0.00208 J	0.00182 J	0.00171 J	0.00174	0.00182	0.00372 J	0.00583	0.00417 J	0.00445 J	0.00343		
Barium	mg/L	0.185	0.173	0.192	0.177	0.206	0.213	0.0361	0.0294	0.0282	0.0295	0.0322	0.0296	0.13	0.1	0.0998	0.0879	0.116	0.128	0.162	0.123	0.108	0.119	0.135		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406		
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	0.000171 J	8.41e-005 J	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	0.000682		
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000342 J	0.000327 J	<0.002	<0.002	<0.002	<0.002	0.000226 J	0.000232 J	<0.002	<0.002	<0.002	<0.002	0.000553 J	0.000392 J	<0.002	0.00325 J	<0.002	<0.002	0.000286 J		
Cobalt	mg/L	0.0173	0.0194	0.0192	0.0176	0.0178	0.0183	0.0203	0.0139	0.0132	0.00717	0.00791	0.00901	0.0044 J	0.00897	0.00777	0.00814	0.00472	0.0101	0.0281	0.0449	0.0359	0.037	0.0559		
Combined Radium 226 + 228	pCi/L	0.901	1.16	1.48	2.02	1.62	0.823 U	0.387 U	0.519 U	0.66	0.928	0.522 U	1.09 U	0.839	0.13 U	0.684	0.742	0.946 U	0.938 U	0.739	0.195 U	0.678	0.687	0.618 U		
Fluoride	mg/L	0.465	0.443	0.446	0.494	0.458	0.508	0.0981 J	0.18	0.0952 J	0.145	0.112	0.142	0.0859 J	0.0609 J	0.0857 J	0.092 J	0.0721 J	0.074 J	<0.05	0.063 J	0.0701 J	0.077 J	0.0697 J		
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005		
Lithium	mg/L	0.399	0.45	0.41	0.47	0.474	0.47	0.407	0.545	0.628	0.669	0.772	0.734	0.0411	0.0396	0.041	0.039	0.0459	0.0545	0.0146 J	0.0169 J	0.0174 J	0.0168 J	0.0172 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	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		
Molybdenum	mg/L	0.00419 J	0.00338 J	0.00246 J	0.00401 J	0.0047	0.00376	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	<0.002	0.000131 J	9.62e-005 J	<0.002	<0.002	<0.002	<0.002	0.000315		
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507		
Thallium	mg/L	0.00092 J	0.000983 J	0.0008 J	0.000814 J	0.000828	0.000762	<0.0002	0.000223 J	<0.0002	0.000208 J	0.000186 J	0.000134 J	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-43H							GC-AP-MW-44H						GC-AP-MW-45H				
		Date	08/18/2021	01/16/2019	09/11/2019	04/21/2020	08/19/2020	03/09/2021	08/18/2021	01/16/2019	09/11/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021	12/17/2019	04/20/2020	08/17/2020	03/10/2021
Appendix III	Units																		
Boron	mg/L	1.03	0.835	1.07	1.08	1.15	1.14	1.23	0.173	0.199	0.2	0.197	0.218	0.208	0.186	0.426	0.57	0.625	0.646
Calcium	mg/L	74.4	54.9	60.7	81.4	99.7	102	106	174	179	167	173	159	138	47.6	64.9	57.2	39.3	122
Chloride	mg/L	17	26.1	31.4	40.4	46.9	41.6	35.8	12.3	11.8	12	10.8	11.9	13.1	8.56	10.9	8.99	6.5	9.94
Fluoride	mg/L	0.111	0.0888 J	0.127	0.147	0.154	0.135	0.166	0.0727 J	0.0783 J	0.0638 J	0.0867 J	0.0611 J	0.11	0.241	0.176	0.195	0.176	0.172
pH_Field	pH	6.16	--	6.52	6.18	6.18	6.47	6.46	--	6.11	6.11	6.27	6.14	6.07	7.72	7.14	6.94	6.83	6.84
Sulfate	mg/L	83.6	74	45.7	59.7	71.8	91.3	107	394	409	429	415	410	406	94.6	157	128	90.9	395
TDS	mg/L	401	345	368	463	534	570	578	706	1570	790	728	794	714	247	369	305	247	730
Appendix IV																			
Antimony	mg/L	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.00456	0.00816	0.0124	0.0101	0.0103	0.0117	0.0116	<0.001	0.00269 J	0.00215 J	0.00197 J	0.00172	0.00263	<0.001	0.00153 J	<0.001	0.00147	0.00143
Barium	mg/L	0.145	0.12	0.127	0.156	0.168	0.211	0.187	0.131	0.0797	0.0594	0.0589	0.064	0.0596	0.0977	0.0898	0.0632	0.0543	0.0942
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	8.98e-005 J	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	0.000411	0.00032	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.000203	<0.002	<0.002	<0.002	<0.002	0.000227 J	<0.000203	<0.002	<0.002	<0.002	<0.002	0.000428 J	0.000302 J	0.00266 J	<0.002	<0.002	0.000314 J	0.0003 J
Cobalt	mg/L	0.0436	0.0131	0.0143	0.0162	0.0173	0.0175	0.0196	0.106	0.106	0.324	0.273	0.415	0.428	0.00465 J	0.00451 J	0.00458 J	0.00442	0.0119
Combined Radium 226 + 228	pCi/L	1.9	0.426 U	0.558 U	1.89	1.99	1.54	1.64	0.422 U	0.637 U	0.386 U	4.07	0.923 U	1.13	0.885	0.529	1.16	0.21 U	1.1
Fluoride	mg/L	0.111	0.0888 J	0.127	0.147	0.154	0.135	0.166	0.0727 J	0.0783 J	0.0638 J	0.0867 J	0.0611 J	0.11	0.241	0.176	0.195	0.176	0.172
Lead	mg/L	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0304	0.178	0.254	0.376	0.336	0.448	0.344	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	0.123	0.148	0.212	0.194	0.367
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000148 J	<0.002	<0.002	<0.002	<0.002	0.0026	0.00283	<0.002	<0.002	<0.002	<0.002	0.000171 J	0.000182 J	0.0721	0.0703	0.0737	0.0852	0.0752
Selenium	mg/L	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	0.000103 J	0.000205

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detec



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-46HO				GC-AP-MW-47HO				GC-AP-MW-48H				
		Date	07/06/2020	08/11/2020	03/08/2021	08/17/2021	05/28/2020	08/11/2020	03/08/2021	08/17/2021	12/17/2019	04/21/2020	08/17/2020	03/10/2021
Appendix III	Units													
Boron	mg/L	0.274	0.252	0.658	0.392	0.143	0.0903 J	0.0769 J	0.105	0.237	0.172	0.218	0.188	0.131
Calcium	mg/L	51.1	57.8	47.1	54.2	38.6	15.9	12.9	16.4	31	28.9	27.6	22.1	17.9
Chloride	mg/L	4.5	4.27	8.51	7.75	4.92	3.18	8.78	8.79	14.3	12.3	11.9	8.31	4.07
Fluoride	mg/L	0.185	0.169	0.187	0.169	0.0647 J	<0.06	<0.06	<0.06	<0.05	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	6.69	6.38	6.86	6.7	6.99	6.25	5.74	5.98	6.65	6.5	6.24	6.35	5.96
Sulfate	mg/L	83.4	54.5	96.1	111	81.5	49.3	31.4	52.1	102	90.2	78	62	49.4
TDS	mg/L	260	258	282	303	195	109	93.3	121	228	208	181	158	124
Appendix IV														
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	<0.001	<0.001	0.000339	0.000262	<0.001	<0.001	0.000152 J	0.000136 J	<0.001	0.0021 J	<0.001	0.000557	0.000247
Barium	mg/L	0.0613	0.0653	0.0523	0.0563	0.0267	0.0204	0.0229	0.0297	0.05	0.028	0.027	0.0281	0.0244
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<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	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	7.26e-005 J
Chromium	mg/L	<0.002	<0.002	<0.000203	0.000319 J	<0.002	<0.002	<0.000203	0.00039 J	<0.002	<0.002	<0.002	0.00026 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	0.00155	0.00295	<0.002	<0.002	<6.8e-005	0.000247	0.00916	0.00236 J	<0.002	0.000388	0.000395
Combined Radium 226 + 228	pCi/L	0.292 U	0.477 U	0.291 U	0.651 U	-0.0036 U	0.208 U	0.568 U	0.339 U	0.604	0.251 U	1.11	0.57 U	0.595 U
Fluoride	mg/L	0.185	0.169	0.187	0.169	0.0647 J	<0.06	<0.06	<0.06	<0.05	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.089	0.097	0.0991	0.112	0.0527	0.0457	0.0456	0.0453	0.113	0.0924	0.108	0.102	0.0822
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	0.0661	0.0443	0.0761	0.0556	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	0.000144 J	7.03e-005 J
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<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	<0.0002	<0.0002	<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
 4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-49H					GC-AP-MW-50HO				GC-AP-MW-52HO				GC-AP-MW-53H					GC-AP-MW-54H						
		Date	12/17/2019	04/21/2020	08/19/2020	03/10/2021	08/18/2021	05/28/2020	08/11/2020	03/08/2021	08/17/2021	07/06/2020	08/11/2020	03/08/2021	08/16/2021	12/17/2019	04/20/2020	08/11/2020	03/10/2021	08/23/2021	12/16/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021	
Appendix III	Units																									
Boron	mg/L	0.252	0.272	0.213	0.224	0.157	0.343	0.329	0.302	0.281	1.2	1.25	1.25	1.35	0.288	0.309	0.493	0.338	0.517	0.519	0.626	0.76	0.53	0.458		
Calcium	mg/L	48.5	36.8	27.4	27.3	19.5	40.1	39.5	32.7	38.1	75.6	73.1	63.3	65	115	93.1	92.8	80.8	79.2	110	98.8	101	92.8	78.2		
Chloride	mg/L	13.3	11.3	7.53	7.57	5.3	13.4	11.2	13.7	14.5	103	87.4	90	60.9	23.9	23.9	21.2	19.4	21.1	11.4	9.74	10.8	11.5	6.89		
Fluoride	mg/L	0.143	0.075 J	0.0823 J	<0.06	0.0638 J	0.138	0.16	0.127	0.155	0.0721 J	0.0762 J	0.0628 J	0.112	0.215	0.154	0.133	0.135	0.245	0.246	0.25	0.275	0.25	0.328		
pH_Field	pH	6.72	6.28	6.14	6.14	6.05	6.42	6.24	6.36	6.07	6.07	6.08	5.98	5.98	6.32	6.17	5.8	6.58	6.33	6.89	6.58	6.67	6.87	6.67		
Sulfate	mg/L	94.1	90.8	70.7	76.1	51.4	94.7	79	71.5	83.1	78.2	64.1	56.9	42.2	38.1	14.7	12.6	44.2	11.6	207	242	180	139	106		
TDS	mg/L	258	222	171	181	130	242	229	218	217	498	462	469	390	624	441	434	408	390	562	545	497	444	405		
Appendix IV																										
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508		
Arsenic	mg/L	<0.001	<0.001	<0.001	0.000592	0.000739	<0.001	<0.001	0.000267	0.000319	<0.001	<0.001	0.00027	0.00014 J	0.0492	0.0806	0.0869	0.213	0.225	0.328	0.41	0.467	0.45	0.454		
Barium	mg/L	0.0761	0.0437	0.0394	0.0406	0.0492	0.0701	0.064	0.0685	0.0707	0.129	0.116	0.131	0.129	0.292	0.278	0.246	0.393	0.377	0.263	0.259	0.221	0.19	0.2		
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406		
Cadmium	mg/L	<0.0003	<0.0003	0.000334 J	0.00017 J	0.000212	<0.0003	<0.0003	0.000287	0.000242	0.000366 J	0.00042 J	0.000227	0.000224	<0.0003	<0.0003	<0.0003	<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	<0.002	0.000366 J	0.000402 J	<0.002	<0.002	0.00028 J	0.000808 J	<0.002	<0.002	<0.000203	0.000294 J	<0.002	<0.002	<0.002	0.000474 J	0.000456 J	<0.002	<0.002	<0.002	0.000574 J	0.000388 J		
Cobalt	mg/L	0.0139	0.00799	0.00853	0.00662	0.00507	0.00801	0.0056	0.00553	0.00608	0.0158	0.0129	0.0153	0.0142	0.14	0.119	0.0859	0.0204	0.0233	0.00496 J	0.0203	0.0272	0.0239	0.031		
Combined Radium 226 + 228	pCi/L	0.701	0.594	0.0107 U	0.261 U	1.11 U	0.612	0.883	1 U	0.939 U	0.432 U	0.777	2.06	1.3	0.791	1.13	1.56	1.29 U	2.06	1.44	1	2.14	1.41	0.978 U		
Fluoride	mg/L	0.143	0.075 J	0.0823 J	<0.06	0.0638 J	0.138	0.16	0.127	0.155	0.0721 J	0.0762 J	0.0628 J	0.112	0.215	0.154	0.133	0.135	0.245	0.246	0.25	0.275	0.25	0.328		
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	0.000122 J	0.000294	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	9.49e-005 J	<6.8e-005		
Lithium	mg/L	0.0528	0.0733	0.0511	0.0681	0.0538	0.0979	0.0825	0.119	0.106	<0.01	<0.01	<0.007105	<0.007105	0.0124 J	0.0107 J	0.0125 J	<0.007105	<0.007105	0.102	0.101	0.105	0.0906	0.0805		
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		
Molybdenum	mg/L	0.00854 J	<0.002	<0.002	0.000173 J	0.000223	<0.002	<0.002	<6.8e-005	8.68e-005 J	<0.002	<0.002	<6.8e-005	<6.8e-005	0.00216 J	<0.002	<0.002	0.00131	0.00142	0.0036 J	0.00223 J	0.00278 J	0.00289	0.00312		
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508		
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	7.98e-005 J	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<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
4. "<MDL" or "U" indicates non-detect



**Appendix A.
Historical Analytical Data
Greene County Ash Pond
2016-Present**

Analytes	Wells	GC-AP-MW-55HO				GC-AP-MW-57H					GC-AP-MW-59HO				GC-AP-MW-60HO		GC-AP-MW-61HO		GC-AP-MW-62HO		GC-AP-MW-63HO		GC-AP-MW-64HO			
		Date	05/28/2020	08/11/2020	03/09/2021	08/17/2021	12/16/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021	05/28/2020	08/11/2020	03/09/2021	08/17/2021	06/29/2021	08/17/2021	06/29/2021	08/17/2021	06/29/2021	08/17/2021	06/29/2021	08/17/2021	06/29/2021	08/17/2021	
Appendix III	Units																									
Boron	mg/L	0.0435 J	0.0406 J	0.0397 J	<0.03	0.305	0.252	0.338	0.126	0.211	0.208	0.209	0.192	0.192	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0343 J	<0.03	0.527	0.571	
Calcium	mg/L	2.61	2.43	2.62	1.96	90.8	69.5	79.1	29	41.4	72.4	76.7	60.5	69.8	3.94	3.97	47	36	33.5	20.3	9.43	8.92	51.5	54.6		
Chloride	mg/L	6.88	6.21	5.06	4.25	8.94	7.88	6.3	55.3	8.41	12.1	12.1	10.4	10.8	4.5	4.94	2.83	3.08	3.4	3.28	2.92	3.37	8.53	10.9		
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.162	0.189	0.165	0.112	0.244	0.0914 J	0.137	0.0715 J	0.096 J	<0.06	<0.06	0.119	0.142	0.0632 J	0.0716 J	<0.06	<0.06	0.238	0.225		
pH_Field	pH	4.47	5.1	5.13	4.89	6.68	6.12	6.48	5.96	6.34	5.99	6.16	5.94	5.85	5.27	5.15	7.1	6.84	7.04	6.33	5.69	5.58	6.97	7.03		
Sulfate	mg/L	10.3	9.32	9.2	7.2	212	252	274	66.5	117	198	206	202	214	7.67	6.86	12.3	13	16.4	14.9	20.6	22.7	110	128		
TDS	mg/L	56.7	52.7	52	45.3	496	502	491	273	301	401	407	386	403	32.7	43.3	124	107	101	59.3	49.3	53.3	278	318		
Appendix IV																										
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	
Arsenic	mg/L	<0.001	<0.001	0.00013 J	9.15e-005 J	0.0156	0.0375	0.0467	0.0196	0.029	0.00208 J	<0.001	0.00103	0.000699	<6.8e-005	<6.8e-005	0.000518	0.000363	0.000301	0.000263	0.000106 J	0.000119 J	0.000649	0.00051		
Barium	mg/L	0.0389	0.0337	0.0404	0.0317	0.111	0.0771	0.0796	0.103	0.084	0.127	0.0909	0.0795	0.0669	0.0372	0.0379	0.0484	0.0383	0.0553	0.0727	0.0594	0.0597	0.0778	0.0762		
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	0.000799 J	<0.0006	<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	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	7.08e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000109 J	0.000119 J	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	0.000619 J	0.000637 J	<0.002	<0.002	<0.002	0.000271 J	0.000289 J	0.00515 J	<0.002	0.000256 J	0.000573 J	0.000694 J	0.00065 J	0.000965 J	0.000573 J	0.00062 J	0.000673 J	0.000352 J	0.000353 J	0.000807 J	0.000856 J		
Cobalt	mg/L	<0.002	<0.002	0.000738	0.000946	0.0309	0.0862	0.0857	0.0345	0.0477	0.0445	0.022	0.0263	0.0216	0.00108	0.00077	0.000587	0.000493	0.000376	0.000335	0.000907	0.000809	0.00376	0.00348		
Combined Radium 226 + 228	pCi/L	0.0544 U	0.462 U	1.02 U	0.442 U	0.372 U	1.5	0.991	1.25 U	1.52	2.27	0.997	1.6	1.19 U	0.765 U	0.612 U	0.564 U	0.404 U	0.648 U	0.437 U	0.307 U	0.219 U	0.87 U	0.56 U		
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.162	0.189	0.165	0.112	0.244	0.0914 J	0.137	0.0715 J	0.096 J	<0.06	<0.06	0.119	0.142	0.0632 J	0.0716 J	<0.06	<0.06	0.238	0.225		
Lead	mg/L	<0.001	<0.001	8.75e-005 J	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	0.0026 J	<0.001	<6.8e-005	0.000172 J	0.000121 J	<6.8e-005	0.000224	<6.8e-005	0.000152 J	0.000109 J	<6.8e-005	<6.8e-005	0.000281	0.000224		
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.128	0.142	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		
Molybdenum	mg/L	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.002	<0.002	<0.002	0.000369	0.000892	<0.002	<0.002	0.000127 J	0.000184 J	9.82e-005 J	<6.8e-005	0.00245	0.00151	0.00136	0.000551	0.000232	7.12e-005 J	0.0675	0.0676		
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.002	<0.002	0.000652 J	0.00051 J	0.00135	0.00115	0.000905 J	0.000578 J	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508		
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	0.000121 J	<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	8.38e-005 J		

- Notes:**
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value
4. "<MDL" or "U" indicates non-detect

Appendix B

**Appendix B.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)										
		2/16/2016	4/12/2016	5/31/2016	8/15/2016	10/10/2016	10/31/2016	11/28/2016	1/3/2017	1/23/2017	3/13/2017	5/8/2017
GC-AP-MW-1	107.79	91.71	92.37	91.82	91.33	90.88	90.67	--	--	90.99	91.22	91.14
GC-AP-MW-2	106.14	100.75	100.88	99.97	99.94	99.46	99.30	--	--	100.40	100.08	99.62
GC-AP-MW-3	106.39	100.37	100.52	99.41	99.40	99.02	98.95	--	--	100.14	99.84	99.31
GC-AP-PZ-4	103.53	94.60	95.26	93.17	92.68	91.90	91.65	--	--	94.17	94.56	93.57
GC-AP-MW-5	108.43	100.46	100.96	98.30	98.29	97.16	96.77	--	--	100.68	100.41	98.87
GC-AP-MW-6	102.05	98.70	98.78	97.29	97.43	95.30	94.54	--	--	98.38	98.08	96.98
GC-AP-MW-7	98.56	92.12	92.51	90.50	90.10	87.24	86.29	--	--	91.64	91.60	90.35
GC-AP-MW-8	97.11	90.73	91.16	89.12	88.75	85.82	84.86	--	--	90.09	89.94	88.69
GC-AP-MW-9	93.19	89.55	89.88	88.03	87.66	84.74	83.73	--	--	89.18	88.98	87.46
GC-AP-MW-10	87.84	84.57	84.69	83.58	84.20	82.61	82.09	--	--	83.74	83.65	82.99
GC-AP-MW-11	101.18	86.37	86.58	85.77	85.52	84.30	83.92	--	--	84.90	84.66	84.25
GC-AP-MW-12	103.26	87.44	87.65	86.64	86.93	85.13	84.87	--	--	85.42	85.27	85.15
GC-AP-MW-13	101.18	83.23	83.50	81.94	82.18	80.46	80.00	--	--	80.53	81.11	80.80
GC-AP-MW-14	85.61	81.60	81.85	78.33	78.68	76.90	76.19	--	--	81.38	80.22	77.46
GC-AP-MW-15	91.69	77.93	78.29	74.64	74.74	74.04	73.83	--	--	78.63	78.13	75.00
GC-AP-MW-16	108.79	78.42	78.25	74.88	74.72	74.19	74.58	--	--	78.11	78.25	75.35
GC-AP-MW-17	106.40	78.70	78.75	74.62	74.48	73.78	73.61	--	--	78.30	78.05	75.01
GC-AP-MW-18	105.04	79.40	79.73	75.72	75.82	75.17	75.05	--	--	79.93	79.47	76.30
GC-AP-PZ-19	104.91	77.92	77.97	75.20	75.28	74.82	74.69	--	--	78.02	78.30	75.72
GC-AP-MW-21	105.72	84.55	84.69	83.72	84.18	82.20	81.95	--	--	82.68	82.35	82.15
GC-AP-PZ-22	104.64	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-23	102.64	91.35	92.17	92.14	91.38	90.98	90.82	--	--	90.84	91.39	91.42
GC-AP-MW-24	106.05	86.03	86.82	86.99	86.34	86.02	85.86	--	--	85.58	86.06	86.26
GC-AP-MW-25	104.98	86.38	86.29	84.51	85.05	83.48	82.79	--	--	85.66	85.42	84.35
GC-AP-MW-26	89.25	--	--	--	78.97	77.75	77.27	76.77	76.93	78.75	83.03	82.62
GC-AP-MW-27	90.68	--	--	--	77.49	76.31	75.86	75.34	75.53	76.94	80.17	80.74
GC-AP-MW-28	89.36	--	--	--	78.88	77.90	77.51	77.11	77.51	79.13	81.36	81.70
GC-AP-MW-29	89.32	--	--	--	83.77	82.65	82.20	81.62	81.62	83.00	86.44	87.10
GC-AP-MW-30	89.87	--	--	--	94.05	93.04	92.59	92.11	92.83	95.33	97.44	97.15
GC-AP-MW-31	94.19	--	--	--	98.01	96.76	90.22	96.06	97.09	99.05	101.65	100.88
GC-AP-MW-32	105.85	--	--	--	91.14	90.67	87.15	90.25	90.09	90.08	90.54	90.76
GC-AP-MW-33	108.99	--	--	--	84.10	83.43	92.59	82.83	82.64	83.04	83.69	84.85

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix B.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)										
		2/16/2016	4/12/2016	5/31/2016	8/15/2016	10/10/2016	10/31/2016	11/28/2016	1/3/2017	1/23/2017	3/13/2017	5/8/2017
GC-AP-MW-34HA	108.38	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-35H	102.64	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-36H	105.17	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-37H	106.04	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-38H	106.58	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-39H	109.89	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-40H	87.53	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-41H	86.57	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-42H	87.56	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-43H	91.76	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-44H	101.13	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-45H	95.14	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-46HO	93.35	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-47HO	93.86	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-48H	90.11	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-49H	91.71	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-50HO	88.92	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-52HO	91.77	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-53H	102.31	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-54H	102.94	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-55HO	114.37	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-57H	100.43	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-59HO	101.69	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-60HO	108.47	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-61HO	109.69	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-62HO	89.89	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-63HO	91.08	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-64HO	95.65	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix B.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)										
		6/27/2017	8/28/2017	2/26/2018	6/4/2018	9/10/2018	11/5/2018	3/25/2019	9/9/2019	2/17/2020	4/20/2020	5/28/2020
GC-AP-MW-1	107.79	91.76	91.31	90.96	91.27	90.43	90.00	91.46	90.65	91.44	92.01	91.76
GC-AP-MW-2	106.14	100.00	98.97	99.78	99.29	98.90	98.83	99.67	97.66	99.15	99.01	98.35
GC-AP-MW-3	106.39	99.56	98.55	100.02	99.09	98.63	98.77	99.26	97.70	98.82	98.80	98.14
GC-AP-PZ-4	103.53	94.63	92.43	94.83	94.24	92.04	91.49	94.86	92.34	95.14	94.70	93.63
GC-AP-MW-5	108.43	99.77	96.90	100.86	99.30	97.19	96.00	99.21	96.17	99.10	98.25	96.78
GC-AP-MW-6	102.05	97.75	95.13	98.31	97.42	96.11	95.59	97.12	95.50	97.70	96.95	96.24
GC-AP-MW-7	98.56	91.34	87.79	92.00	91.05	88.18	87.67	90.75	89.00	91.40	90.46	88.94
GC-AP-MW-8	97.11	89.59	86.41	90.52	89.32	86.88	86.31	88.95	87.58	90.14	89.00	87.59
GC-AP-MW-9	93.19	88.64	85.05	89.66	88.30	85.48	85.14	88.02	86.24	89.29	87.57	86.10
GC-AP-MW-10	87.84	84.26	82.00	84.04	83.40	83.53	83.51	83.27	81.58	--	83.99	83.19
GC-AP-MW-11	101.18	85.26	83.76	84.97	84.87	84.43	84.09	85.01	82.34	88.74	85.33	84.13
GC-AP-MW-12	103.26	85.74	85.08	85.61	85.44	85.19	84.95	84.87	81.18	88.97	85.40	81.87
GC-AP-MW-13	101.18	84.35	80.73	82.18	81.64	80.53	80.12	81.88	77.68	88.64	83.68	78.31
GC-AP-MW-14	85.61	84.38	76.62	82.25	78.72	77.61	76.89	79.53	75.82	--	83.81	77.88
GC-AP-MW-15	91.69	83.64	74.42	79.93	75.90	75.07	74.75	76.55	74.16	--	82.89	76.01
GC-AP-MW-16	108.79	84.14	74.87	79.84	76.51	75.40	75.11	77.15	74.54	90.16	83.18	76.41
GC-AP-MW-17	106.40	83.48	74.45	79.75	76.01	75.97	74.83	76.73	74.07	90.92	84.31	77.73
GC-AP-MW-18	105.04	84.80	75.75	81.18	77.06	76.98	76.14	77.61	75.43	90.64	83.94	77.19
GC-AP-PZ-19	104.91	88.07	75.34	79.69	76.71	75.78	84.39	77.09	75.16	90.15	83.09	76.51
GC-AP-MW-21	105.72	82.84	82.01	82.55	82.45	82.16	81.93	82.62	78.33	89.01	85.68	82.42
GC-AP-PZ-22	104.64	--	--	--	--	--	--	--	--	90.24	90.29	90.31
GC-AP-MW-23	102.64	91.84	91.72	91.53	92.05	91.18	90.79	93.01	91.86	89.42	89.99	89.78
GC-AP-MW-24	106.05	86.37	86.70	86.12	85.16	86.22	85.71	87.93	86.86	88.68	89.58	89.29
GC-AP-MW-25	104.98	86.20	83.87	85.11	84.89	85.16	83.39	84.76	82.29	100.88	99.30	97.88
GC-AP-MW-26	89.25	84.98	81.01	85.57	83.44	79.43	78.74	83.84	79.48	--	86.10	85.13
GC-AP-MW-27	90.68	82.75	79.35	82.41	81.37	77.83	77.05	81.79	77.74	--	84.59	83.55
GC-AP-MW-28	89.36	84.58	80.59	83.40	82.30	79.18	78.48	82.96	79.11	--	84.01	82.56
GC-AP-MW-29	89.32	89.66	85.73	89.73	87.83	84.11	83.38	88.18	84.20	--	85.75	84.42
GC-AP-MW-30	89.87	99.45	95.99	98.86	97.66	94.82	93.91	97.82	95.41	--	83.58	82.76
GC-AP-MW-31	94.19	103.35	98.66	104.17	102.60	97.92	97.48	102.50	99.15	90.02	90.34	86.81
GC-AP-MW-32	105.85	90.80	90.74	90.38	91.27	90.57	90.29	92.13	91.41	89.21	90.18	90.05
GC-AP-MW-33	108.99	84.84	84.58	83.52	84.58	83.25	82.88	85.74	84.38	90.41	90.84	90.45

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix B.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)										
		6/27/2017	8/28/2017	2/26/2018	6/4/2018	9/10/2018	11/5/2018	3/25/2019	9/9/2019	2/17/2020	4/20/2020	5/28/2020
GC-AP-MW-34HA	108.38	--	--	--	--	--	--	--	86.26	86.75	88.38	88.32
GC-AP-MW-35H	102.64	--	--	--	--	--	--	--	80.56	90.91	84.17	81.38
GC-AP-MW-36H	105.17	--	--	--	--	--	--	--	78.64	90.80	83.84	79.42
GC-AP-MW-37H	106.04	--	--	--	--	--	--	--	76.95	90.67	84.94	79.91
GC-AP-MW-38H	106.58	--	--	--	--	--	--	--	86.98	90.50	87.48	87.26
GC-AP-MW-39H	109.89	--	--	--	--	--	--	--	74.41	89.99	82.94	76.08
GC-AP-MW-40H	87.53	--	--	--	--	--	--	--	74.08	--	82.77	75.90
GC-AP-MW-41H	86.57	--	--	--	--	--	--	--	74.09	--	82.94	76.10
GC-AP-MW-42H	87.56	--	--	--	--	--	--	--	81.15	--	84.01	83.03
GC-AP-MW-43H	91.76	--	--	--	--	--	--	--	85.86	--	87.17	85.86
GC-AP-MW-44H	101.13	--	--	--	--	--	--	--	93.79	97.19	97.30	96.63
GC-AP-MW-45H	95.14	--	--	--	--	--	--	--	--	89.46	82.62	75.87
GC-AP-MW-46HO	93.35	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-47HO	93.86	--	--	--	--	--	--	--	--	--	--	80.54
GC-AP-MW-48H	90.11	--	--	--	--	--	--	--	--	--	86.55	84.11
GC-AP-MW-49H	91.71	--	--	--	--	--	--	--	--	89.22	85.33	84.08
GC-AP-MW-50HO	88.92	--	--	--	--	--	--	--	--	--	--	81.98
GC-AP-MW-52HO	91.77	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-53H	102.31	--	--	--	--	--	--	--	--	97.40	97.04	96.29
GC-AP-MW-54H	102.94	--	--	--	--	--	--	--	--	97.71	97.48	96.31
GC-AP-MW-55H0	114.37	--	--	--	--	--	--	--	--	--	--	84.31
GC-AP-MW-57H	100.43	--	--	--	--	--	--	--	--	96.97	97.08	96.02
GC-AP-MW-59HO	101.69	--	--	--	--	--	--	--	--	--	--	93.61
GC-AP-MW-60HO	108.47	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-61HO	109.69	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-62HO	89.89	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-63HO	91.08	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-64HO	95.65	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix B.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)				
		6/30/2020	8/10/2020	3/8/2021	6/28/2021	8/16/2021
GC-AP-MW-1	107.79	90.85	91.15	89.44	90.35	90.01
GC-AP-MW-2	106.14	97.40	94.66	92.74	93.33	92.69
GC-AP-MW-3	106.39	97.13	94.16	92.78	93.43	92.80
GC-AP-PZ-4	103.53	92.55	91.74	91.58	92.25	91.37
GC-AP-MW-5	108.43	96.27	93.68	94.31	94.24	93.04
GC-AP-MW-6	102.05	95.41	90.37	91.63	91.16	90.31
GC-AP-MW-7	98.56	87.77	86.56	87.95	87.54	86.54
GC-AP-MW-8	97.11	86.47	85.64	86.61	86.14	85.13
GC-AP-MW-9	93.19	84.98	83.71	85.01	84.51	83.43
GC-AP-MW-10	87.84	81.90	80.62	82.54	82.04	80.78
GC-AP-MW-11	101.18	82.94	82.13	83.43	83.33	82.01
GC-AP-MW-12	103.26	81.05	81.21	82.96	81.85	81.26
GC-AP-MW-13	101.18	Dry	76.97	80.98	80.67	77.67
GC-AP-MW-14	85.61	76.55	75.28	78.61	79.30	76.57
GC-AP-MW-15	91.69	75.26	74.10	77.17	77.25	75.49
GC-AP-MW-16	108.79	75.74	74.59	77.49	77.62	75.77
GC-AP-MW-17	106.40	76.77	75.54	77.95	77.99	76.91
GC-AP-MW-18	105.04	75.48	75.08	77.58	77.48	76.56
GC-AP-PZ-19	104.91	104.91	75.22	77.76	77.82	76.10
GC-AP-MW-21	105.72	81.66	81.08	83.27	82.16	81.56
GC-AP-PZ-22	104.64	Dry	88.92	Dry	Dry	88.66
GC-AP-MW-23	102.64	89.51	89.04	88.44	89.16	88.66
GC-AP-MW-24	106.05	89.09	88.65	87.73	88.47	88.14
GC-AP-MW-25	104.98	97.12	96.38	92.08	92.81	91.67
GC-AP-MW-26	89.25	82.09	80.80	83.78	83.16	82.59
GC-AP-MW-27	90.68	81.91	80.57	83.09	82.86	82.25
GC-AP-MW-28	89.36	80.75	79.54	81.71	81.80	80.77
GC-AP-MW-29	89.32	81.95	80.77	83.29	82.91	82.18
GC-AP-MW-30	89.87	81.14	80.14	82.11	82.08	81.20
GC-AP-MW-31	94.19	86.02	84.56	87.86	87.11	85.59
GC-AP-MW-32	105.85	89.41	89.27	88.67	89.41	86.09
GC-AP-MW-33	108.99	89.93	89.40	89.07	89.80	92.12

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix B.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)				
		6/30/2020	8/10/2020	3/8/2021	6/28/2021	8/16/2021
GC-AP-MW-34HA	108.38	87.92	87.41	85.89	87.03	86.63
GC-AP-MW-35H	102.64	Dry	80.70	81.10	82.05	80.68
GC-AP-MW-36H	105.17	79.08	78.81	80.82	80.74	79.12
GC-AP-MW-37H	106.04	79.32	77.07	80.28	82.63	80.96
GC-AP-MW-38H	106.58	87.60	86.84	87.14	87.39	86.79
GC-AP-MW-39H	109.89	75.43	74.29	77.02	77.11	75.56
GC-AP-MW-40H	87.53	75.17	74.00	77.09	77.16	75.40
GC-AP-MW-41H	86.57	74.11	73.98	76.61	76.33	75.77
GC-AP-MW-42H	87.56	82.00	80.78	82.45	82.07	80.92
GC-AP-MW-43H	91.76	84.60	83.50	84.90	84.37	83.32
GC-AP-MW-44H	101.13	94.17	92.70	94.32	93.79	92.38
GC-AP-MW-45H	95.14	75.33	74.32	82.64	77.73	75.53
GC-AP-MW-46HO	93.35	75.48	74.76	78.16	78.24	75.56
GC-AP-MW-47HO	93.86	78.71	77.48	78.56	79.22	77.78
GC-AP-MW-48H	90.11	82.43	81.35	82.32	82.65	81.45
GC-AP-MW-49H	91.71	82.79	82.08	82.83	83.07	81.95
GC-AP-MW-50HO	88.92	81.19	80.51	81.50	81.36	80.58
GC-AP-MW-52HO	91.77	84.71	83.65	85.36	84.90	83.75
GC-AP-MW-53H	102.31	95.07	93.12	94.25	93.78	92.82
GC-AP-MW-54H	102.94	95.01	93.20	94.54	93.96	92.75
GC-AP-MW-55HO	114.37	83.58	83.03	82.76	81.31	82.69
GC-AP-MW-57H	100.43	92.50	92.91	94.23	93.74	92.63
GC-AP-MW-59HO	101.69	93.05	92.36	91.87	92.47	91.86
GC-AP-MW-60HO	108.47	--	--	--	88.31	88.05
GC-AP-MW-61HO	109.69	--	--	--	91.40	90.93
GC-AP-MW-62HO	89.89	--	--	--	83.31	81.39
GC-AP-MW-63HO	91.08	--	--	--	83.33	81.74
GC-AP-MW-64HO	95.65	--	--	--	78.44	76.10

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

Appendix C



Greene County Ash Pond

2021 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).

The first pH field reading for well MW-28 were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Due to low yield, well MW-37H was sampled using the Minimal Purge Method, defined in the SAP.

Rainy conditions were present when pumping and sampling wells MW-33, MW-34HA, MW-5, MW-3 and MW-2.

Suspected iron bacteria was present during initial pumping of wells MW-9, MW-44H, MW-49H and MW-5.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.
 - Calibration verification was not documented for wells MW-6, MW-7, MW-8, MW-9 and MW-14 when sampled on 3/9/2021. Although the verification was done, both before and after sample collection, the form did not upload to EDAS either time due to spotty cellular service at Greene County. Initial LCS readings on 3/10/2021 were successfully uploaded to EDAS and show the meter was still in calibration.

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

Analytical Report



Sample Group : WMWGREAP_1311

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

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

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

April 22, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between March 10, 2021 and March 17, 2021. 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, 2021

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkiff@southernco.com, c=US
Date: 2021.04.23 09:22:01 -05'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.04.23 11:24:05 -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

Greene County Ash Pond

WMWGREAP_1311

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>
BB05041	694635	WMWGREAP_1311
BB05042	694635	WMWGREAP_1311
BB05043	694635	WMWGREAP_1311
BB05044	694635	WMWGREAP_1311
BB05045	694635	WMWGREAP_1311
BB05046	694635	WMWGREAP_1311
BB05047	694635	WMWGREAP_1311
BB05048	694635	WMWGREAP_1311
BB05049	694635	WMWGREAP_1311
BB05050	694635	WMWGREAP_1311
BB05051	694636	WMWGREAP_1311
BB05168	694636	WMWGREAP_1311
BB05169	694636	WMWGREAP_1311
BB05170	694636	WMWGREAP_1311
BB05171	694636	WMWGREAP_1311
BB05172	694636	WMWGREAP_1311
BB05173	694636	WMWGREAP_1311
BB05174	694636	WMWGREAP_1311
BB05175	694636	WMWGREAP_1311
BB05176	694636	WMWGREAP_1311
BB05177	694637	WMWGREAP_1311
BB05178	694637	WMWGREAP_1311
BB05179	694637	WMWGREAP_1311
BB05180	694637	WMWGREAP_1311
BB05181	694637	WMWGREAP_1311
BB05182	694637	WMWGREAP_1311
BB05183	694637	WMWGREAP_1311
BB05184	694637	WMWGREAP_1311
BB05185	694637	WMWGREAP_1311
BB05186	694637	WMWGREAP_1311
BB05187	694638	WMWGREAP_1311

BB05188	694638	WMWGREAP_1311
BB05189	694638	WMWGREAP_1311
BB05190	694638	WMWGREAP_1311
BB05191	694638	WMWGREAP_1311
BB05500	694638	WMWGREAP_1311
BB05501	694638	WMWGREAP_1311
BB05502	694638	WMWGREAP_1311
BB05503	694638	WMWGREAP_1311
BB05504	694638	WMWGREAP_1311
BB05505	694639	WMWGREAP_1311
BB05506	694639	WMWGREAP_1311
BB05507	694639	WMWGREAP_1311
BB05508	694639	WMWGREAP_1311
BB05509	694639	WMWGREAP_1311
BB05510	694639	WMWGREAP_1311
BB05511	694639	WMWGREAP_1311
BB05512	694639	WMWGREAP_1311
BB05513	694639	WMWGREAP_1311
BB05514	694639	WMWGREAP_1311
BB05515	694640	WMWGREAP_1311
BB05516	694640	WMWGREAP_1311
BB05517	694640	WMWGREAP_1311
BB05518	694640	WMWGREAP_1311
BB05519	694640	WMWGREAP_1311
BB05520	694640	WMWGREAP_1311
BB05521	694640	WMWGREAP_1311
BB05522	694640	WMWGREAP_1311

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 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.
- 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:
 - BB05050 Sodium, Calcium, and Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - BB05176 Calcium and Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - BB05186 Sodium and Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BB05522 Sodium, Calcium, and Iron 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.

Case Narrative

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>
BB05041	Sodium	20.3
BB05042	Sodium, Calcium, Iron	20.3
BB05043	Sodium, Calcium, Iron	20.3
BB05044	Iron, Calcium	20.3
BB05045	Iron, Calcium	20.3
BB05046	Calcium, Sodium	20.3
BB05047	Calcium, Sodium	20.3
BB05048	Calcium, Sodium	20.3
BB05049	Calcium, Sodium	20.3
BB05050	Sodium, Calcium, Iron	20.3
BB05051	Iron, Calcium	101.5
BB05169	Iron, Calcium	20.3
BB05171	Iron	20.3
BB05172	Iron, Calcium	20.3
BB05173	Iron, Calcium	20.3
BB05174	Sodium, Calcium, Iron	20.3
BB05176	Calcium, Iron	20.3
BB05180	Calcium	20.3
BB05181	Calcium	20.3
BB05184	Calcium	20.3
BB05185	Calcium	20.3
BB05186	Calcium	20.3
BB05187	Calcium	20.3
BB05188	Calcium	20.3
BB05190	Iron, Calcium	20.3
BB05500	Iron, Calcium	20.3
BB05501	Calcium	20.3
BB05502	Calcium	20.3
BB05508	Iron, Calcium	20.3
BB05509	Iron, Calcium	20.3
BB05510	Iron, Calcium	20.3
BB05512	Iron, Calcium	10.15
BB05521	Iron, Calcium	20.3
BB05522	Calcium, Sodium	10.15
BB05522	Iron	101.5

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

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1311

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>
BB05041	693850	WMWGREAP_1311
BB05042	693850	WMWGREAP_1311
BB05043	693850	WMWGREAP_1311
BB05044	693850	WMWGREAP_1311
BB05045	693850	WMWGREAP_1311
BB05046	693850	WMWGREAP_1311
BB05047	693850	WMWGREAP_1311
BB05048	693850	WMWGREAP_1311
BB05049	693850	WMWGREAP_1311
BB05050	693850	WMWGREAP_1311
BB05051	693851	WMWGREAP_1311
BB05168	693851	WMWGREAP_1311
BB05169	693851	WMWGREAP_1311
BB05171	693851	WMWGREAP_1311
BB05172	693851	WMWGREAP_1311
BB05173	693851	WMWGREAP_1311
BB05174	693851	WMWGREAP_1311
BB05176	693851	WMWGREAP_1311
BB05177	693851	WMWGREAP_1311
BB05178	693851	WMWGREAP_1311
BB05179	693852	WMWGREAP_1311
BB05180	693852	WMWGREAP_1311
BB05181	693852	WMWGREAP_1311
BB05182	693852	WMWGREAP_1311
BB05183	693852	WMWGREAP_1311
BB05184	693852	WMWGREAP_1311
BB05185	693852	WMWGREAP_1311
BB05186	693852	WMWGREAP_1311
BB05187	693852	WMWGREAP_1311
BB05188	693852	WMWGREAP_1311
BB05189	693853	WMWGREAP_1311

BB05190	693853	WMWGREAP_1311
BB05500	694747	WMWGREAP_1311
BB05501	694747	WMWGREAP_1311
BB05502	694747	WMWGREAP_1311
BB05503	694747	WMWGREAP_1311
BB05505	694747	WMWGREAP_1311
BB05506	694747	WMWGREAP_1311
BB05507	694747	WMWGREAP_1311
BB05508	694747	WMWGREAP_1311
BB05509	694747	WMWGREAP_1311
BB05510	694747	WMWGREAP_1311
BB05512	694748	WMWGREAP_1311
BB05513	694748	WMWGREAP_1311
BB05514	694748	WMWGREAP_1311
BB05516	694748	WMWGREAP_1311
BB05517	694748	WMWGREAP_1311
BB05518	694748	WMWGREAP_1311
BB05519	694748	WMWGREAP_1311
BB05520	694748	WMWGREAP_1311
BB05521	694748	WMWGREAP_1311
BB05522	694748	WMWGREAP_1311

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 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 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.

Revision 5

- 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:
 - BB05050 Iron MS/MSD spike level was less than 30% of the sample concentration.
 - BB05190 Iron MS/MSD spike level was less than 30% of the sample concentration.
 - BB05510 Iron MS/MSD spike level was less than 30% of the sample concentration.
 - BB05522 Iron MS/MSD spike level was less than 30% of the sample concentration.
 - 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>
BB05042	Iron	10.15
BB05043	Iron	10.15
BB05044	Iron	10.15
BB05045	Iron	10.15
BB05050	Iron	10.15
BB05051	Iron	101.5
BB05169	Iron	10.15
BB05171	Iron	10.15
BB05172	Iron	101.5
BB05173	Iron	101.5
BB05174	Iron	10.15
BB05176	Iron	10.15
BB05190	Iron	101.5
BB05500	Iron	101.5
BB05508	Iron	101.5
BB05509	Iron	101.5

Case Narrative

BB05510	Iron	101.5
BB05512	Iron	10.15
BB05521	Iron	101.5
BB05522	Iron	101.5

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

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1311

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>
BB05041	694964	WMWGREAP_1311
BB05042	694964	WMWGREAP_1311
BB05043	694964	WMWGREAP_1311
BB05044	694964	WMWGREAP_1311
BB05045	694964	WMWGREAP_1311
BB05046	694964	WMWGREAP_1311
BB05047	694964	WMWGREAP_1311
BB05048	694964	WMWGREAP_1311
BB05049	694964	WMWGREAP_1311
BB05050	694964	WMWGREAP_1311
BB05051	694965	WMWGREAP_1311
BB05168	694965	WMWGREAP_1311
BB05169	694965	WMWGREAP_1311
BB05170	694965	WMWGREAP_1311
BB05171	694965	WMWGREAP_1311
BB05172	694965	WMWGREAP_1311
BB05173	694965	WMWGREAP_1311
BB05174	694965	WMWGREAP_1311
BB05175	694965	WMWGREAP_1311
BB05176	694965	WMWGREAP_1311
BB05177	694966	WMWGREAP_1311
BB05178	694966	WMWGREAP_1311
BB05179	694966	WMWGREAP_1311
BB05180	694966	WMWGREAP_1311
BB05181	694966	WMWGREAP_1311
BB05182	694966	WMWGREAP_1311
BB05183	694966	WMWGREAP_1311
BB05184	694966	WMWGREAP_1311
BB05185	694966	WMWGREAP_1311
BB05186	694966	WMWGREAP_1311
BB05187	694967	WMWGREAP_1311

BB05188	694967	WMWGREAP_1311
BB05189	694967	WMWGREAP_1311
BB05190	694967	WMWGREAP_1311
BB05191	694967	WMWGREAP_1311
BB05500	694967	WMWGREAP_1311
BB05501	694967	WMWGREAP_1311
BB05502	694967	WMWGREAP_1311
BB05503	694967	WMWGREAP_1311
BB05504	694967	WMWGREAP_1311
BB05505	694968	WMWGREAP_1311
BB05506	694968	WMWGREAP_1311
BB05507	694968	WMWGREAP_1311
BB05508	694968	WMWGREAP_1311
BB05509	694968	WMWGREAP_1311
BB05510	694968	WMWGREAP_1311
BB05511	694968	WMWGREAP_1311
BB05512	694968	WMWGREAP_1311
BB05513	694968	WMWGREAP_1311
BB05514	694968	WMWGREAP_1311
BB05515	694969	WMWGREAP_1311
BB05516	694969	WMWGREAP_1311
BB05517	694969	WMWGREAP_1311
BB05518	694969	WMWGREAP_1311
BB05519	694969	WMWGREAP_1311
BB05520	694969	WMWGREAP_1311
BB05521	694969	WMWGREAP_1311
BB05522	694969	WMWGREAP_1311

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.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BB05050 Manganese MS/MSD spike level was less than 30% of the sample concentrations.
 - BB05176 Manganese MS/MSD spike level was less than 30% of the sample concentrations.
 - BB05186 Manganese MS/MSD spike level was less than 30% of the sample concentrations.
 - BB05522 Manganese MS/MSD spike level was less than 30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution factor</u>
BB05042	Mn	5.075
BB05043	Mn	5.075
BB05044	Mn	5.075
BB05045	Mn	5.075
BB05049	Mn	5.075
BB05050	Mn	10.15
BB05051	Mn	5.075
BB05169	Mn	10.15
BB05172	Mn	5.075
BB05173	Mn	5.075
BB05174	Mn	10.15
BB05176	Mn	10.15
BB05177	Mn	5.075
BB05178	Mn	5.075
BB05180	Mn	5.075
BB05182	Mn	5.075
BB05183	Mn	5.075
BB05185	Mn	5.075
BB05186	Mn	5.075
BB05187	Mn	5.075
BB05190	Mn	10.15
BB05500	Mn	10.15
BB05501	Mn	5.075
BB05502	Mn	5.075
BB05508	Mn	5.075
BB05510	Mn	10.15
BB05512	Mn	5.075
BB05521	Mn	5.075
BB05522	Mn	92.365

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

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1311

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>
BB05041	694315	WMWGREAP_1311
BB05042	694315	WMWGREAP_1311
BB05043	694315	WMWGREAP_1311
BB05044	694315	WMWGREAP_1311
BB05045	694315	WMWGREAP_1311
BB05046	694315	WMWGREAP_1311
BB05047	694315	WMWGREAP_1311
BB05048	694315	WMWGREAP_1311
BB05049	694315	WMWGREAP_1311
BB05050	694315	WMWGREAP_1311
BB05051	694316	WMWGREAP_1311
BB05168	694316	WMWGREAP_1311
BB05169	694316	WMWGREAP_1311
BB05171	694316	WMWGREAP_1311
BB05172	694316	WMWGREAP_1311
BB05173	694316	WMWGREAP_1311
BB05174	694316	WMWGREAP_1311
BB05176	694316	WMWGREAP_1311
BB05177	694316	WMWGREAP_1311
BB05178	694316	WMWGREAP_1311
BB05179	694317	WMWGREAP_1311
BB05180	694317	WMWGREAP_1311
BB05181	694317	WMWGREAP_1311
BB05182	694317	WMWGREAP_1311
BB05183	694317	WMWGREAP_1311
BB05184	694317	WMWGREAP_1311
BB05185	694317	WMWGREAP_1311
BB05186	694317	WMWGREAP_1311
BB05187	694317	WMWGREAP_1311
BB05188	694317	WMWGREAP_1311
BB05189	694318	WMWGREAP_1311

BB05190	694318	WMWGREAP_1311
BB05500	694318	WMWGREAP_1311
BB05501	694318	WMWGREAP_1311
BB05502	694318	WMWGREAP_1311
BB05503	694318	WMWGREAP_1311
BB05505	694318	WMWGREAP_1311
BB05506	694318	WMWGREAP_1311
BB05507	694318	WMWGREAP_1311
BB05508	694318	WMWGREAP_1311
BB05509	694319	WMWGREAP_1311
BB05510	694319	WMWGREAP_1311
BB05512	694319	WMWGREAP_1311
BB05513	694319	WMWGREAP_1311
BB05514	694319	WMWGREAP_1311
BB05516	694319	WMWGREAP_1311
BB05517	694319	WMWGREAP_1311
BB05518	694319	WMWGREAP_1311
BB05519	694319	WMWGREAP_1311
BB05520	694319	WMWGREAP_1311
BB05521	694320	WMWGREAP_1311
BB05522	694320	WMWGREAP_1311

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.

Revision 5

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:
 - BB05050 Manganese MS/MSD spike level was less than 30% of the sample concentrations.
 - BB05508 Manganese MS/MSD spike level was less than 30% of the sample concentrations.
 - BB05522 Manganese MS/MSD spike level was less than 30% of the sample concentrations.
- 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>
BB05042	Mn	5.075
BB05043	Mn	5.075
BB05044	Mn	5.075
BB05045	Mn	5.075
BB05049	Mn	5.075
BB05050	Mn	10.15
BB05051	Mn	5.075
BB05169	Mn	10.15
BB05172	Mn	5.075
BB05173	Mn	5.075
BB05174	Mn	10.15
BB05176	Mn	10.15
BB05177	Mn	5.075
BB05178	Mn	5.075
BB05180	Mn	5.075
BB05182	Mn	5.075
BB05183	Mn	5.075
BB05185	Mn	5.075
BB05186	Mn	5.075
BB05187	Mn	5.075
BB05190	Mn	10.15
BB05500	Mn	10.15
BB05501	Mn	5.075

Case Narrative

BB05502	Mn	5.075
BB05508	Mn	5.075
BB05510	Mn	10.15
BB05512	Mn	5.075
BB05521	Mn	5.075
BB05522	Mn	92.365

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

Total Mercury

Greene County Ash Pond

WMWGREAP_1311

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>
BB05041	694326	WMWGREAP_1311
BB05042	694326	WMWGREAP_1311
BB05043	694326	WMWGREAP_1311
BB05044	694326	WMWGREAP_1311
BB05045	694326	WMWGREAP_1311
BB05046	694326	WMWGREAP_1311
BB05047	694326	WMWGREAP_1311
BB05048	694326	WMWGREAP_1311
BB05049	694326	WMWGREAP_1311
BB05050	694326	WMWGREAP_1311
BB05051	694327	WMWGREAP_1311
BB05168	694327	WMWGREAP_1311
BB05169	694327	WMWGREAP_1311
BB05170	694327	WMWGREAP_1311
BB05171	694327	WMWGREAP_1311
BB05172	694327	WMWGREAP_1311
BB05173	694327	WMWGREAP_1311
BB05174	694327	WMWGREAP_1311
BB05175	694327	WMWGREAP_1311
BB05176	694327	WMWGREAP_1311
BB05177	694328	WMWGREAP_1311
BB05178	694328	WMWGREAP_1311
BB05179	694328	WMWGREAP_1311
BB05180	694328	WMWGREAP_1311
BB05181	694328	WMWGREAP_1311
BB05182	694328	WMWGREAP_1311
BB05183	694328	WMWGREAP_1311
BB05184	694328	WMWGREAP_1311
BB05185	694328	WMWGREAP_1311
BB05186	694328	WMWGREAP_1311
BB05187	694495	WMWGREAP_1311

BB05188	694495	WMWGREAP_1311
BB05189	694495	WMWGREAP_1311
BB05190	694495	WMWGREAP_1311
BB05191	694495	WMWGREAP_1311
BB05500	694495	WMWGREAP_1311
BB05501	694495	WMWGREAP_1311
BB05502	694495	WMWGREAP_1311
BB05503	694495	WMWGREAP_1311
BB05504	694495	WMWGREAP_1311
BB05505	694496	WMWGREAP_1311
BB05506	694496	WMWGREAP_1311
BB05507	694496	WMWGREAP_1311
BB05508	694496	WMWGREAP_1311
BB05509	694496	WMWGREAP_1311
BB05510	694496	WMWGREAP_1311
BB05511	694496	WMWGREAP_1311
BB05512	694496	WMWGREAP_1311
BB05513	694496	WMWGREAP_1311
BB05514	694496	WMWGREAP_1311
BB05515	694497	WMWGREAP_1311
BB05516	694497	WMWGREAP_1311
BB05517	694497	WMWGREAP_1311
BB05518	694497	WMWGREAP_1311
BB05519	694497	WMWGREAP_1311
BB05520	694497	WMWGREAP_1311
BB05521	694497	WMWGREAP_1311
BB05522	694497	WMWGREAP_1311

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.
 8. The raw data results are shown with dilution factors included.

TDS

Greene County Ash Pond

WMWGREAP_1311

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>
BB05041	693754	WMWGREAP_1311
BB05042	693781	WMWGREAP_1311
BB05043	693781	WMWGREAP_1311
BB05044	693781	WMWGREAP_1311
BB05045	693781	WMWGREAP_1311
BB05046	693754	WMWGREAP_1311
BB05047	693754	WMWGREAP_1311
BB05048	693781	WMWGREAP_1311
BB05049	693781	WMWGREAP_1311
BB05050	693781	WMWGREAP_1311
BB05051	693781	WMWGREAP_1311
BB05168	693781	WMWGREAP_1311
BB05169	693781	WMWGREAP_1311
BB05170	693782	WMWGREAP_1311
BB05171	694018	WMWGREAP_1311
BB05172	694018	WMWGREAP_1311
BB05173	694018	WMWGREAP_1311
BB05174	693782	WMWGREAP_1311
BB05175	693782	WMWGREAP_1311
BB05176	693782	WMWGREAP_1311
BB05177	693782	WMWGREAP_1311
BB05178	693782	WMWGREAP_1311
BB05179	693782	WMWGREAP_1311
BB05180	693782	WMWGREAP_1311
BB05181	694019	WMWGREAP_1311
BB05182	694019	WMWGREAP_1311
BB05183	694019	WMWGREAP_1311
BB05184	693782	WMWGREAP_1311
BB05185	693782	WMWGREAP_1311
BB05186	694019	WMWGREAP_1311
BB05187	694019	WMWGREAP_1311

BB05188	694019	WMWGREAP_1311
BB05189	694019	WMWGREAP_1311
BB05190	694019	WMWGREAP_1311
BB05191	694019	WMWGREAP_1311
BB05500	694283	WMWGREAP_1311
BB05501	694283	WMWGREAP_1311
BB05502	694283	WMWGREAP_1311
BB05503	694283	WMWGREAP_1311
BB05504	694283	WMWGREAP_1311
BB05505	694283	WMWGREAP_1311
BB05506	694283	WMWGREAP_1311
BB05507	694283	WMWGREAP_1311
BB05508	694283	WMWGREAP_1311
BB05509	694386	WMWGREAP_1311
BB05510	694284	WMWGREAP_1311
BB05511	694386	WMWGREAP_1311
BB05512	694284	WMWGREAP_1311
BB05513	694284	WMWGREAP_1311
BB05514	694284	WMWGREAP_1311
BB05515	694284	WMWGREAP_1311
BB05516	694284	WMWGREAP_1311
BB05517	694284	WMWGREAP_1311
BB05518	694284	WMWGREAP_1311
BB05519	694284	WMWGREAP_1311
BB05520	694284	WMWGREAP_1311
BB05521	694386	WMWGREAP_1311
BB05522	694386	WMWGREAP_1311

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB05170
 - BB05175
 - BB05191
 - BB05504
 - BB05515
 - BB05511

Anions

Greene County Ash Pond

WMWGREAP_1311

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>
BB05041	693765, 693773, & 694003	WMWGREAP_1311
BB05042	693765, 693773, & 694003	WMWGREAP_1311
BB05043	693765, 693773, & 694003	WMWGREAP_1311
BB05044	693765, 693773, & 694003	WMWGREAP_1311
BB05045	693765, 693773, & 694003	WMWGREAP_1311
BB05046	693765, 693773, & 694003	WMWGREAP_1311
BB05047	693765, 693773, & 694003	WMWGREAP_1311
BB05048	693765, 693773, & 694003	WMWGREAP_1311
BB05049	693765, 693773, & 694003	WMWGREAP_1311
BB05050	693765, 693773, & 694003	WMWGREAP_1311
BB05051	693766, 693774, & 694004	WMWGREAP_1311
BB05168	693770, 693778, & 694008	WMWGREAP_1311
BB05169	693770, 693778, & 694008	WMWGREAP_1311
BB05170	693770, 693778, & 694008	WMWGREAP_1311
BB05171	693770, 693778, & 694008	WMWGREAP_1311
BB05172	693770, 693778, & 694008	WMWGREAP_1311
BB05173	693770, 693778, & 694008	WMWGREAP_1311
BB05174	693770, 693778, & 694008	WMWGREAP_1311
BB05175	693770, 693778, & 694008	WMWGREAP_1311
BB05176	693770, 693778, & 694008	WMWGREAP_1311
BB05177	693770, 693778, & 694008	WMWGREAP_1311
BB05178	693771, 693779, & 694009	WMWGREAP_1311
BB05179	693771, 693779, & 694009	WMWGREAP_1311
BB05180	693771, 693779, & 694009	WMWGREAP_1311
BB05181	693771, 693779, & 694009	WMWGREAP_1311
BB05182	693771, 693779, & 694009	WMWGREAP_1311
BB05183	693771, 693779, & 694009	WMWGREAP_1311
BB05184	693771, 693779, & 694009	WMWGREAP_1311
BB05185	693771, 693779, & 694009	WMWGREAP_1311
BB05186	693771, 693779, & 694009	WMWGREAP_1311
BB05187	693771, 693779, & 694009	WMWGREAP_1311

Case Narrative

BB05188	693772, 693780, & 694010	WMWGREAP_1311
BB05189	693772, 693780, & 694010	WMWGREAP_1311
BB05190	693772, 693780, & 694010	WMWGREAP_1311
BB05191	693772, 693780, & 694010	WMWGREAP_1311
BB05500	694611, 694616, & 694621	WMWGREAP_1311
BB05501	694611, 694616, & 694621	WMWGREAP_1311
BB05502	694611, 694616, & 694621	WMWGREAP_1311
BB05503	694611, 694616, & 694621	WMWGREAP_1311
BB05504	694611, 694616, & 694621	WMWGREAP_1311
BB05505	694611, 694616, & 694621	WMWGREAP_1311
BB05506	694611, 694616, & 694621	WMWGREAP_1311
BB05507	694611, 694616, & 694621	WMWGREAP_1311
BB05508	694611, 694616, & 694621	WMWGREAP_1311
BB05509	694611, 694616, & 694621	WMWGREAP_1311
BB05510	694612, 694617, & 694622	WMWGREAP_1311
BB05511	694612, 694617, & 694622	WMWGREAP_1311
BB05512	694612, 694617, & 694622	WMWGREAP_1311
BB05513	694612, 694617, & 694622	WMWGREAP_1311
BB05514	694612, 694617, & 694622	WMWGREAP_1311
BB05515	694612, 694617, & 694622	WMWGREAP_1311
BB05516	694612, 694617, & 694622	WMWGREAP_1311
BB05517	694612, 694617, & 694622	WMWGREAP_1311
BB05518	694612, 694617, & 694622	WMWGREAP_1311
BB05519	694612, 694617, & 694622	WMWGREAP_1311
BB05520	694613, 694618, & 694623	WMWGREAP_1311
BB05521	694613, 694618, & 694623	WMWGREAP_1311
BB05522	694613, 694618, & 694623	WMWGREAP_1311

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met, except for the following:
 - BB05191 Sulfate precision limit was exceeded; however, precision is invalid due to sample concentration.

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>
BB05042	Chloride	2
BB05043	Sulfate	5
BB05044	Sulfate	2
BB05046	Chloride & Sulfate	5 & 10
BB05047	Chloride & Sulfate	8 & 25
BB05048	Chloride & Sulfate	8 & 25
BB05049	Chloride & Sulfate	8 & 4
BB05050	Chloride & Sulfate	10 & 10

Case Narrative

BB05051	Sulfate	16
BB05168	Chloride & Sulfate	2 & 4
BB05169	Sulfate	25
BB05171	Chloride & Sulfate	5 & 4
BB05172	Sulfate	8
BB05173	Sulfate	2
BB05174	Chloride & Sulfate	5 & 4
BB05176	Sulfate	4
BB05177	Sulfate	8
BB05178	Sulfate	4
BB05179	Sulfate	4
BB05180	Sulfate	10
BB05181	Chloride & Sulfate	1.2 & 2
BB05182	Sulfate	4
BB05183	Sulfate	4
BB05184	Sulfate	2
BB05185	Sulfate	8
BB05186	Sulfate	20
BB05187	Sulfate	32
BB05188	Sulfate	8
BB05190	Sulfate	32
BB05500	Chloride & Sulfate	2 & 4
BB05501	Sulfate	16
BB05502	Sulfate	16
BB05508	Sulfate	10
BB05509	Chloride	4
BB05510	Sulfate	32
BB05512	Sulfate	4
BB05521	Sulfate	25
BB05522	Sulfate	64

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

Alkalinity

Greene County Ash Pond

WMWGREAP_1311

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>
BB05041	694329 & 694330	WMWGREAP_1311
BB05042	694329 & 694330	WMWGREAP_1311
BB05043	694329 & 694330	WMWGREAP_1311
BB05044	694329 & 694330	WMWGREAP_1311
BB05045	694329 & 694330	WMWGREAP_1311
BB05046	694329 & 694330	WMWGREAP_1311
BB05047	694329 & 694330	WMWGREAP_1311
BB05048	694329 & 694330	WMWGREAP_1311
BB05049	694329 & 694330	WMWGREAP_1311
BB05050	694329 & 694330	WMWGREAP_1311
BB05051	694329 & 694330	WMWGREAP_1311
BB05168	694329 & 694330	WMWGREAP_1311
BB05169	694329 & 694330	WMWGREAP_1311
BB05171	694549 & 694550	WMWGREAP_1311
BB05172	694549 & 694550	WMWGREAP_1311
BB05173	694549 & 694550	WMWGREAP_1311
BB05174	694329 & 694330	WMWGREAP_1311
BB05176	694329 & 694330	WMWGREAP_1311
BB05177	694329 & 694330	WMWGREAP_1311
BB05178	694329 & 694330	WMWGREAP_1311
BB05179	694329 & 694330	WMWGREAP_1311
BB05180	694549 & 694550	WMWGREAP_1311
BB05181	694549 & 694550	WMWGREAP_1311
BB05182	694549 & 694550	WMWGREAP_1311
BB05183	694549 & 694550	WMWGREAP_1311
BB05184	694329 & 694330	WMWGREAP_1311
BB05185	694329 & 694330	WMWGREAP_1311
BB05186	694549 & 694550	WMWGREAP_1311
BB05187	694549 & 694550	WMWGREAP_1311
BB05188	694549 & 694550	WMWGREAP_1311
BB05189	694549 & 694550	WMWGREAP_1311

BB05190	694549 & 694550	WMWGREAP_1311
BB05500	694549 & 694550	WMWGREAP_1311
BB05501	694549 & 694550	WMWGREAP_1311
BB05502	694549 & 694550	WMWGREAP_1311
BB05503	694549 & 694550	WMWGREAP_1311
BB05505	694549 & 694550	WMWGREAP_1311
BB05506	694549 & 694550	WMWGREAP_1311
BB05507	694549 & 694550	WMWGREAP_1311
BB05508	694549 & 694550	WMWGREAP_1311
BB05509	694841 & 694842	WMWGREAP_1311
BB05510	694841 & 694842	WMWGREAP_1311
BB05512	694841 & 694842	WMWGREAP_1311
BB05513	694841 & 694842	WMWGREAP_1311
BB05514	694841 & 694842	WMWGREAP_1311
BB05516	694841 & 694842	WMWGREAP_1311
BB05517	694841 & 694842	WMWGREAP_1311
BB05518	694841 & 694842	WMWGREAP_1311
BB05519	694841 & 694842	WMWGREAP_1311
BB05520	694841 & 694842	WMWGREAP_1311
BB05521	694841 & 694842	WMWGREAP_1311
BB05522	694841 & 694842	WMWGREAP_1311

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were 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.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 3/9/21 09:15
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05041

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:28		1.015	0.159	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/25/21 09:28		1.015	0.990	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/25/21 09:28		1.015	0.353	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 09:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 09:28		1.015	0.0993	mg/L	0.021315	0.406	J
* Sodium, Total	3/24/21 05:57	3/30/21 10:17		20.3	66.6	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 13:23		1.015	0.0149	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:13		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:13		1.015	0.00291	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 13:13		1.015	0.00297	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 13:13		1.015	0.00143	mg/L	0.000203	0.001015	
* Cobalt, Total	3/18/21 12:41	3/19/21 13:13		1.015	0.000522	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:13		1.015	0.000447	mg/L	0.000068	0.000203	
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:13		1.015	0.000166	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 13:13		1.015	0.571	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 13:13		1.015	0.00419	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 13:13		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 10:13		1.015	0.00143	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	153	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	185	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 3/9/21 09:15
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05041

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	152	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	1.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 10:08	3/11/21 10:08		1	2.90	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:15	3/11/21 14:15		1	0.365	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 09:33	3/16/21 09:33		1	10.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/9/21 09:10	3/9/21 09:10			278.59	uS/cm			FA
pH	3/9/21 09:10	3/9/21 09:10			7.79	SU			FA
Temperature	3/9/21 09:10	3/9/21 09:10			22.56	C			FA
Turbidity	3/9/21 09:10	3/9/21 09:10			9.48	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:15

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BB05041

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:15

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BB05041

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05047	Solids, Dissolved	mg/L	-1.00	25.0			1110	52.0	40.0 to 60.0			0.909	5.00
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 3/9/21 10:23
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05042

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:31		1.015	1.52	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:21		20.3	82.0	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 10:21		20.3	11.7	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 09:31		1.015	0.364	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 09:31		1.015	15.3	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/30/21 10:21		20.3	46.7	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:12		10.15	11.8	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:17		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:17		1.015	0.0505	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 13:17		1.015	0.0849	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 13:17		1.015	0.000346	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:17		1.015	0.0170	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:17		1.015	0.000362	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 13:17		1.015	6.58	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 10:49		5.075	2.99	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 13:17		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:12		5.075	2.77	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	339	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	412	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 3/9/21 10:23
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05042

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	339	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.11	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 10:22	3/11/21 10:22		2	25.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:16	3/11/21 14:16		1	0.205	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 09:34	3/16/21 09:34		1	11.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/9/21 10:20	3/9/21 10:20			751.44	uS/cm			FA
pH	3/9/21 10:20	3/9/21 10:20			6.39	SU			FA
Temperature	3/9/21 10:20	3/9/21 10:20			20.04	C			FA
Turbidity	3/9/21 10:20	3/9/21 10:20			0.27	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 10:23

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BB05042

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 10:23

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BB05042

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 3/9/21 11:25
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05043

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:35		1.015	2.45	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:24		20.3	118	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 10:24		20.3	33.1	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 09:35		1.015	0.864	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 09:35		1.015	31.9	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/30/21 10:24		20.3	57.0	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:18		10.15	32.9	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:21		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:21		1.015	0.860	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 13:21		1.015	0.352	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 13:21		1.015	0.000216	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:21		1.015	0.0151	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:21		1.015	0.0670	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 13:21		1.015	13.5	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 10:52		5.075	2.64	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 13:21		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:15		5.075	2.49	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	480	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	684	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 3/9/21 11:25
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05043

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	480	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.24	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 10:10	3/11/21 10:10		1	14.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:18	3/11/21 14:18		1	0.628	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 09:47	3/16/21 09:47		5	95.8	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/9/21 11:24	3/9/21 11:24			1114.46	uS/cm			FA
pH	3/9/21 11:24	3/9/21 11:24			6.52	SU			FA
Temperature	3/9/21 11:24	3/9/21 11:24			20.36	C			FA
Turbidity	3/9/21 11:24	3/9/21 11:24			1.08	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/9/21 11:25
Customer ID:
Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BB05043

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 11:25

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BB05043

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 3/9/21 12:40
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05044

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:38		1.015	1.94	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:27		20.3	101	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 10:27		20.3	17.0	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 09:38		1.015	0.692	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 09:38		1.015	25.1	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 09:38		1.015	39.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:21		10.15	16.6	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:24		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:24		1.015	0.113	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 13:24		1.015	0.102	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 13:24		1.015	0.000444	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:24		1.015	0.0162	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:24		1.015	0.000109	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:24		1.015	0.000113	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 13:24		1.015	13.2	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 10:56		5.075	2.97	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 13:24		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:24		1.015	0.000369	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:18		5.075	2.74	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	460	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	524	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 3/9/21 12:40
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05044

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	460	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.14	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 10:12	3/11/21 10:12		1	12.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:19	3/11/21 14:19		1	0.286	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 09:48	3/16/21 09:48		2	43.9	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/9/21 12:38	3/9/21 12:38			886.04	uS/cm			FA
pH	3/9/21 12:38	3/9/21 12:38			6.29	SU			FA
Temperature	3/9/21 12:38	3/9/21 12:38			19.19	C			FA
Turbidity	3/9/21 12:38	3/9/21 12:38			8.57	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 12:40

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BB05044

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 12:40

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BB05044

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 3/9/21 13:45
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05045

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:41		1.015	1.81	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:31		20.3	108	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 10:31		20.3	27.8	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 09:41		1.015	0.474	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 09:41		1.015	24.4	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 09:41		1.015	36.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:24		10.15	28.1	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:28		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:28		1.015	0.0697	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 13:28		1.015	0.206	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 13:28		1.015	0.000342	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:28		1.015	0.0178	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:28		1.015	0.00470	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 13:28		1.015	13.1	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 10:59		5.075	3.84	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 13:28		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:28		1.015	0.000828	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:21		5.075	3.58	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	395	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	524	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 3/9/21 13:45
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05045

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	395	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.16	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 10:13	3/11/21 10:13		1	8.06	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:20	3/11/21 14:20		1	0.458	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 09:38	3/16/21 09:38		1	32.2	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/9/21 13:42	3/9/21 13:42			931.49	uS/cm			FA
pH	3/9/21 13:42	3/9/21 13:42			6.47	SU			FA
Temperature	3/9/21 13:42	3/9/21 13:42			19.51	C			FA
Turbidity	3/9/21 13:42	3/9/21 13:42			0.55	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 13:45

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BB05045

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 13:45

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BB05045

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO ₃	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 3/9/21 09:16
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05046

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:45		1.015	1.49	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:34		20.3	119	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 09:45		1.015	0.445	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 09:45		1.015	0.0130	mg/L	0.007105	0.01999956	J
* Magnesium, Total	3/24/21 05:57	3/25/21 09:45		1.015	29.2	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/30/21 10:34		20.3	96.1	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 13:40		1.015	0.298	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:31		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:31		1.015	0.000303	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 13:31		1.015	0.0664	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:31		1.015	0.00278	mg/L	0.000068	0.000203	
* Chromium, Total	3/18/21 12:41	3/19/21 13:31		1.015	0.000347	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:31		1.015	0.00367	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:31		1.015	0.00240	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 13:31		1.015	1.03	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 13:31		1.015	1.25	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 13:31		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 10:26		1.015	0.982	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	400	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	716	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 3/9/21 09:16
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05046

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	400	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.13	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 10:24	3/11/21 10:24		5	47.5	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:21	3/11/21 14:21		1	0.170	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 09:50	3/16/21 09:50		10	187	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/9/21 09:13	3/9/21 09:13			1093.40	uS/cm			FA
pH	3/9/21 09:13	3/9/21 09:13			6.43	SU			FA
Temperature	3/9/21 09:13	3/9/21 09:13			19.92	C			FA
Turbidity	3/9/21 09:13	3/9/21 09:13			0.59	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:16

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BB05046

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0	
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0	
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0	
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0	
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0	
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0	
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0	
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0	
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0	
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0	
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0	
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0	
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0	
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0	
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0	
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0	
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0	
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0	
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0	
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0	
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0	
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0	

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:16

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BB05046

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05047	Solids, Dissolved	mg/L	-1.00	25.0			1110	52.0	40.0 to 60.0			0.909	5.00
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 3/9/21 10:15
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05047

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:48		1.015	0.397	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:38		20.3	160	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 09:48		1.015	0.0608	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 09:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 09:48		1.015	21.3	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/30/21 10:38		20.3	196	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 13:43		1.015	0.0643	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:35		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:35		1.015	0.000150	mg/L	0.000068	0.000203	J
* Barium, Total	3/18/21 12:41	3/19/21 13:35		1.015	0.0830	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 13:35		1.015	0.000351	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:35		1.015	0.00181	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:35		1.015	0.000156	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 13:35		1.015	0.869	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 13:35		1.015	0.809	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 13:35		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 10:29		1.015	0.799	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	441	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	1090	mg/L		83.3	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 3/9/21 10:15
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05047

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	441	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.15	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 10:37	3/11/21 10:37		8	80.7	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:22	3/11/21 14:22		1	0.0949	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 09:51	3/16/21 09:51		25	347	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/9/21 10:12	3/9/21 10:12			1551.14	uS/cm			FA
pH	3/9/21 10:12	3/9/21 10:12			6.45	SU			FA
Temperature	3/9/21 10:12	3/9/21 10:12			19.36	C			FA
Turbidity	3/9/21 10:12	3/9/21 10:12			0.23	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 10:15

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BB05047

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 10:15

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BB05047

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB05047	Solids, Dissolved	mg/L	-1.00	25.0			1110	52.0	40.0 to 60.0			0.909	5.00
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7 DUP

Location Code: WMWGREAP
Collected: 3/9/21 10:15
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05048

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:51		1.015	0.390	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:41		20.3	159	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 09:51		1.015	0.0614	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 09:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 09:51		1.015	21.3	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/30/21 10:41		20.3	192	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 13:46		1.015	0.0589	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:38		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:38		1.015	0.0000818	mg/L	0.000068	0.000203	J
* Barium, Total	3/18/21 12:41	3/19/21 13:38		1.015	0.0829	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:38		1.015	0.0000723	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 13:38		1.015	0.000419	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:38		1.015	0.00187	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:38		1.015	0.000108	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 13:38		1.015	0.883	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 13:38		1.015	0.828	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 13:38		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 10:31		1.015	0.786	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	436	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	1130	mg/L		83.3	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7 DUP

Location Code: WMWGREAP
Collected: 3/9/21 10:15
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05048

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	436	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.17	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 10:38	3/11/21 10:38		8	80.7	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:24	3/11/21 14:24		1	0.0909	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 09:52	3/16/21 09:52		25	360	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/9/21 10:12	3/9/21 10:12			1551.14	uS/cm			FA
pH	3/9/21 10:12	3/9/21 10:12			6.45	SU			FA
Temperature	3/9/21 10:12	3/9/21 10:12			19.36	C			FA
Turbidity	3/9/21 10:12	3/9/21 10:12			0.23	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 10:15

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-7 DUP

Laboratory ID Number: BB05048

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 10:15

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-7 DUP

Laboratory ID Number: BB05048

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 3/9/21 11:05
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05049

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:55		1.015	1.57	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:44		20.3	100	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 09:55		1.015	0.0138	mg/L	0.008120	0.0406	J
* Lithium, Total	3/24/21 05:57	3/25/21 09:55		1.015	0.0249	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 09:55		1.015	20.4	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/30/21 10:44		20.3	146	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 13:50		1.015	0.0137	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:42		1.015	0.000248	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 13:42		1.015	0.150	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:42		1.015	0.000241	mg/L	0.000068	0.000203	
* Chromium, Total	3/18/21 12:41	3/19/21 13:42		1.015	0.000346	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:42		1.015	0.00707	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:42		1.015	0.0000812	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 13:42		1.015	1.14	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:03		5.075	2.56	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 13:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:23		5.075	2.40	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	495	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	746	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 3/9/21 11:05
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05049

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	495	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.10	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 10:40	3/11/21 10:40		8	106	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:25	3/11/21 14:25		1	0.109	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:06	3/16/21 10:06		4	71.7	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/9/21 11:02	3/9/21 11:02			1050.17	uS/cm			FA
pH	3/9/21 11:02	3/9/21 11:02			6.31	SU			FA
Temperature	3/9/21 11:02	3/9/21 11:02			19.90	C			FA
Turbidity	3/9/21 11:02	3/9/21 11:02			0.28	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 11:05

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BB05049

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 11:05

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BB05049

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 3/9/21 12:33
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05050

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 09:58		1.015	1.12	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 10:48		20.3	82.1	mg/L	1.4007	8.12	RA
* Iron, Total	3/24/21 05:57	3/30/21 10:48		20.3	11.7	mg/L	0.1624	0.812	RA
* Lithium, Total	3/24/21 05:57	3/25/21 09:58		1.015	0.0417	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 09:58		1.015	25.3	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/30/21 10:48		20.3	60.1	mg/L	0.609	8.12	RA
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:28		10.15	11.1	mg/L	0.08120	0.406	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 13:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 13:46		1.015	0.0105	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 13:46		1.015	0.160	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 13:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 13:46		1.015	0.000381	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 13:46		1.015	0.0247	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 13:46		1.015	0.0000784	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/18/21 12:41	3/19/21 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 13:46		1.015	6.10	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:07		10.15	7.82	mg/L	0.000680	0.00203	RA
* Selenium, Total	3/18/21 12:41	3/19/21 13:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:26		10.15	7.72	mg/L	0.000680	0.00203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	310	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	532	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 3/9/21 12:33
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05050

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	310	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.07	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 10:41	3/11/21 10:41		10	53.9	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:26	3/11/21 14:26		1	0.147	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:07	3/16/21 10:07		10	107	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/9/21 12:31	3/9/21 12:31			875.98	uS/cm			FA
pH	3/9/21 12:31	3/9/21 12:31			6.14	SU			FA
Temperature	3/9/21 12:31	3/9/21 12:31			19.70	C			FA
Turbidity	3/9/21 12:31	3/9/21 12:31			9.17	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 12:33

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BB05050

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05050	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.105	0.104	0.100	0.0850 to 0.115	105	70.0 to 130	0.943	20.0
BB05050	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	2.04	20.0
BB05050	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.101	0.104	0.0989	0.0850 to 0.115	100	70.0 to 130	3.58	20.0
BB05050	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0991	0.0999	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.821	20.0
BB05050	Boron, Total	mg/L	0.0105	0.0650	1.00	2.12	2.13	1.01	0.850 to 1.15	100	70.0 to 130	0.318	20.0
BB05050	Calcium, Total	mg/L	0.00131	0.152	5.00	87.8	90.3	5.10	4.25 to 5.75	113	70.0 to 130	2.81	20.0
BB05050	Iron, Total	mg/L	0.000454	0.0176	0.2	11.8	12.1	0.204	0.170 to 0.230	70.1	70.0 to 130	1.95	20.0
BB05050	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.103	0.101	0.0982	0.0850 to 0.115	103	70.0 to 130	1.48	20.0
BB05050	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	65.6	67.5	4.99	4.25 to 5.75	110	70.0 to 130	2.93	20.0
BB05050	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.264	0.259	0.102	0.0850 to 0.115	105	70.0 to 130	1.82	20.0
BB05050	Mercury, Total by CVAA	mg/L	0.0000199	0.000500	0.004	0.00393	0.00400	0.00429	0.00340 to 0.00460	98.2	70.0 to 130	1.77	20.0
BB05050	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	8.10	7.77	0.104	0.0850 to 0.115	283	70.0 to 130	4.13	20.0
BB05050	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0954	0.0958	0.0962	0.0850 to 0.115	95.4	70.0 to 130	0.409	20.0
BB05050	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.117	0.119	0.104	0.0850 to 0.115	107	70.0 to 130	1.65	20.0
BB05050	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0955	0.0959	0.0948	0.0850 to 0.115	95.5	70.0 to 130	0.360	20.0
BB05050	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.122	0.125	0.0974	0.0850 to 0.115	97.7	70.0 to 130	2.21	20.0
BB05050	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	11.0	10.7	0.205	0.170 to 0.230	-50.0	70.0 to 130	2.76	20.0
BB05050	Potassium, Total	mg/L	0.0205	0.367	10.0	16.3	16.6	9.86	8.50 to 11.5	102	70.0 to 130	1.54	20.0
BB05050	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.281	0.281	0.201	0.170 to 0.230	120	70.0 to 130	0.0616	20.0
BB05050	Magnesium, Total	mg/L	0.00122	0.0462	5.00	30.5	30.4	5.08	4.25 to 5.75	103	70.0 to 130	0.220	20.0
BB05050	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	7.34	7.48	0.103	0.0850 to 0.115	-374	70.0 to 130	1.77	20.0
BB05050	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.104	0.104	0.0998	0.0850 to 0.115	104	70.0 to 130	0.383	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 12:33

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BB05050

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05050	Sulfate	mg/L	-0.295	0.500	200	297	105	19.1	18.0 to 22.0	95.0	80.0 to 120	1.89	20.0
BB05050	Fluoride	mg/L	0.0374	0.0500	2.50	2.76	0.141	2.63	2.25 to 2.75	105	80.0 to 120	4.17	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05050	Chloride	mg/L	-0.00855	0.500	100	154	54.2	10.1	9.00 to 11.0	100	80.0 to 120	0.555	20.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 3/9/21 13:40
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05051

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:15		1.015	1.81	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:05		101.5	115	mg/L	7.0035	40.6	
* Iron, Total	3/24/21 05:57	3/30/21 11:05		101.5	47.7	mg/L	0.8120	4.06	
* Lithium, Total	3/24/21 05:57	3/25/21 10:15		1.015	0.791	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 10:15		1.015	27.8	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 10:15		1.015	36.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:38		101.5	44.4	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:07		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:07		1.015	0.0292	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 14:07		1.015	0.125	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 14:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 14:07		1.015	0.000357	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:07		1.015	0.0302	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:07		1.015	0.0205	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 14:07		1.015	11.9	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:17		5.075	4.22	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 14:07		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:34		5.075	3.97	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 14:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	406	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	618	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 3/9/21 13:40
Customer ID:
Submittal Date: 3/10/21 13:52

Laboratory ID Number: BB05051

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	406	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.14	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 10:57	3/11/21 10:57		1	10.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:37	3/11/21 14:37		1	0.263	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:29	3/16/21 10:29		16	165	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/9/21 13:35	3/9/21 13:35			957.50	uS/cm			FA
pH	3/9/21 13:35	3/9/21 13:35			6.48	SU			FA
Temperature	3/9/21 13:35	3/9/21 13:35			18.39	C			FA
Turbidity	3/9/21 13:35	3/9/21 13:35			8.47	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 13:40

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BB05051

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 13:40

Customer ID:

Delivery Date: 3/10/21 13:52

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BB05051

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00
BB05051	Fluoride	mg/L	0.0358	0.0500	2.50	2.94	0.254	2.65	2.25 to 2.75	107	80.0 to 120	3.48	20.0
BB05051	Chloride	mg/L	-0.0307	0.500	10.0	20.8	10.3	10.1	9.00 to 11.0	104	80.0 to 120	0.966	20.0
BB05051	Sulfate	mg/L	-0.352	0.500	320	491	168	19.1	18.0 to 22.0	102	80.0 to 120	1.80	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 3/10/21 09:35
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05168

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:18		1.015	0.146	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/25/21 10:18		1.015	29.3	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/25/21 10:18		1.015	1.19	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 10:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 10:18		1.015	7.43	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 10:18		1.015	34.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 14:14		1.015	0.692	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:11		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:11		1.015	0.000330	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 14:11		1.015	0.0797	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 14:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 14:11		1.015	0.000300	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:11		1.015	0.0115	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 14:11		1.015	0.0000884	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:11		1.015	0.0000843	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 14:11		1.015	0.934	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 14:11		1.015	0.326	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 14:11		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 10:55		1.015	0.315	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	70.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	246	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 3/10/21 09:35
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05168

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	70.4	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:36	3/11/21 12:36		2	25.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:42	3/11/21 15:42		1	0.104	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:52	3/16/21 11:52		4	70.3	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/10/21 09:31	3/10/21 09:31			361.15	uS/cm			FA
pH	3/10/21 09:31	3/10/21 09:31			5.71	SU			FA
Temperature	3/10/21 09:31	3/10/21 09:31			20.21	C			FA
Turbidity	3/10/21 09:31	3/10/21 09:31			5.79	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 09:35

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BB05168

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 09:35

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BB05168

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 3/10/21 10:44
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05169

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:22		1.015	0.218	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:08		20.3	159	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 11:08		20.3	7.11	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 10:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 10:22		1.015	21.8	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 10:22		1.015	32.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:41		10.15	6.63	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:14		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:14		1.015	0.00172	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 14:14		1.015	0.0640	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 14:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:14		1.015	0.000411	mg/L	0.000068	0.000203	
* Chromium, Total	3/18/21 12:41	3/19/21 14:14		1.015	0.000428	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:14		1.015	0.415	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:14		1.015	0.000171	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 14:14		1.015	3.07	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:22		10.15	12.5	mg/L	0.000680	0.00203	
* Selenium, Total	3/18/21 12:41	3/19/21 14:14		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:44		10.15	11.4	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	109	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	794	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 3/10/21 10:44
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05169

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	109	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:23	3/11/21 12:23		1	11.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:43	3/11/21 15:43		1	0.0611	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:53	3/16/21 11:53		25	410	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/10/21 10:40	3/10/21 10:40			987.29	uS/cm			FA
pH	3/10/21 10:40	3/10/21 10:40			6.14	SU			FA
Temperature	3/10/21 10:40	3/10/21 10:40			17.55	C			FA
Turbidity	3/10/21 10:40	3/10/21 10:40			6.51	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 10:44

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BB05169

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 10:44

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BB05169

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05169	Solids, Dissolved	mg/L	0.0000	25.0			754	52.0	40.0 to 60.0			2.58	5.00
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-3

Location Code: WMWGREAPFB
Collected: 3/10/21 11:15
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05170

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:25		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/25/21 10:25		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/24/21 05:57	3/25/21 10:25		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/25/21 10:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 10:25		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/24/21 05:57	3/25/21 10:25		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 14:18		1.015	0.000335	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/18/21 12:41	3/19/21 14:18		1.015	0.000171	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 12:24	3/11/21 12:24		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:44	3/11/21 15:44		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:40	3/16/21 11:40		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 3/10/21 11:15
Customer ID:
Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BB05170

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/10/21 11:15

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BB05170

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP
Collected: 3/10/21 11:40
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05171

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:29		1.015	0.126	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/25/21 10:29		1.015	29.0	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/30/21 11:11		20.3	19.7	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 10:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 10:29		1.015	7.01	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 10:29		1.015	35.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:45		10.15	20.0	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:21		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:21		1.015	0.0196	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 14:21		1.015	0.103	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 14:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 14:21		1.015	0.000271	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:21		1.015	0.0345	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:21		1.015	0.000369	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 14:21		1.015	3.77	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 14:21		1.015	0.920	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 14:21		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 11:00		1.015	0.909	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	80.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	273	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP
Collected: 3/10/21 11:40
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05171

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	80.0	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:37	3/11/21 12:37		5	55.3	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:46	3/11/21 15:46		1	0.112	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:54	3/16/21 11:54		4	66.5	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/10/21 11:35	3/10/21 11:35			433.29	uS/cm			FA
pH	3/10/21 11:35	3/10/21 11:35			5.96	SU			FA
Temperature	3/10/21 11:35	3/10/21 11:35			16.39	C			FA
Turbidity	3/10/21 11:35	3/10/21 11:35			1.75	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 11:40

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BB05171

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 11:40

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BB05171

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05173	Solids, Dissolved	mg/L	-2.00	25.0			407	49.0	40.0 to 60.0			0.123	5.00
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP
Collected: 3/10/21 12:30
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05172

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:32		1.015	0.530	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:15		20.3	92.8	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 11:15		20.3	39.1	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 10:32		1.015	0.0906	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 10:32		1.015	19.5	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 10:32		1.015	25.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:48		101.5	36.8	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:25		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:25		1.015	0.450	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 14:25		1.015	0.190	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 14:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 14:25		1.015	0.000574	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:25		1.015	0.0239	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 14:25		1.015	0.0000949	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:25		1.015	0.00289	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 14:25		1.015	6.26	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:26		5.075	2.08	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 14:25		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:47		5.075	1.92	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	234	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	444	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP
Collected: 3/10/21 12:30
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05172

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50	1		234	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50	1		0.10	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:26	3/11/21 12:26	1		11.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:47	3/11/21 15:47	1		0.250	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:56	3/16/21 11:56	8		139	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/10/21 12:26	3/10/21 12:26			735.42	uS/cm			FA
pH	3/10/21 12:26	3/10/21 12:26			6.87	SU			FA
Temperature	3/10/21 12:26	3/10/21 12:26			17.19	C			FA
Turbidity	3/10/21 12:26	3/10/21 12:26			8.66	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 12:30

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BB05172

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 12:30

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BB05172

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05173	Solids, Dissolved	mg/L	-2.00	25.0			407	49.0	40.0 to 60.0			0.123	5.00
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP
Collected: 3/10/21 13:22
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05173

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:35		1.015	0.338	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:18		20.3	80.8	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 11:18		20.3	67.4	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 10:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 10:35		1.015	10.3	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 10:35		1.015	34.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 13:52		101.5	64.3	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:28		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:28		1.015	0.213	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 14:28		1.015	0.393	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 14:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 14:28		1.015	0.000474	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:28		1.015	0.0204	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:28		1.015	0.00131	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 14:28		1.015	4.48	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:29		5.075	2.80	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 14:28		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:50		5.075	2.56	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	336	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	408	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP

Collected: 3/10/21 13:22

Customer ID:

Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05173

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	336	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.10	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 12:28	3/11/21 12:28		1	19.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:48	3/11/21 15:48		1	0.135	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:10	3/16/21 12:10		2	44.2	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/10/21 13:19	3/10/21 13:19			752.30	uS/cm			FA
pH	3/10/21 13:19	3/10/21 13:19			6.58	SU			FA
Temperature	3/10/21 13:19	3/10/21 13:19			17.20	C			FA
Turbidity	3/10/21 13:19	3/10/21 13:19			7.65	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 13:22

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BB05173

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 13:22

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BB05173

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05173	Solids, Dissolved	mg/L	-2.00	25.0			407	49.0	40.0 to 60.0			0.123	5.00
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP
Collected: 3/9/21 12:38
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05174

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:39		1.015	1.14	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:22		20.3	102	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 11:22		20.3	13.3	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 10:39		1.015	0.448	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 10:39		1.015	28.5	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/30/21 11:22		20.3	50.9	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 14:02		10.15	13.2	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:32		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:32		1.015	0.0117	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 14:32		1.015	0.211	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 14:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 14:32		1.015	0.000227	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:32		1.015	0.0175	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:32		1.015	0.00260	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 14:32		1.015	9.75	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:43		10.15	9.83	mg/L	0.000680	0.00203	
* Selenium, Total	3/18/21 12:41	3/19/21 14:32		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:52		10.15	9.22	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	430	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	570	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP

Collected: 3/9/21 12:38

Customer ID:

Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05174

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	430	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.14	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:38	3/11/21 12:38		5	41.6	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:49	3/11/21 15:49		1	0.135	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:12	3/16/21 12:12		4	91.3	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/9/21 12:35	3/9/21 12:35			930.58	uS/cm			FA
pH	3/9/21 12:35	3/9/21 12:35			6.47	SU			FA
Temperature	3/9/21 12:35	3/9/21 12:35			18.05	C			FA
Turbidity	3/9/21 12:35	3/9/21 12:35			3.46	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 12:38

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BB05174

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 12:38

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BB05174

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/9/21 13:05
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05175

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/25/21 10:42		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/24/21 05:57	3/25/21 10:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/25/21 10:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 10:42		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/24/21 05:57	3/25/21 10:42		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 14:36		1.015	0.000294	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/18/21 12:41	3/19/21 14:36		1.015	0.000174	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 12:30	3/11/21 12:30		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 15:50	3/11/21 15:50		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 11:46	3/16/21 11:46		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/9/21 13:05

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05175

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/9/21 13:05

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05175

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 3/9/21 13:50
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05176

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 10:45		1.015	1.26	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:25		20.3	69.5	mg/L	1.4007	8.12	RA
* Iron, Total	3/24/21 05:57	3/30/21 11:25		20.3	10.6	mg/L	0.1624	0.812	RA
* Lithium, Total	3/24/21 05:57	3/25/21 10:45		1.015	0.0172	mg/L	0.007105	0.01999956	J
* Magnesium, Total	3/24/21 05:57	3/25/21 10:45		1.015	13.6	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 10:45		1.015	36.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 14:05		10.15	10.7	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 14:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 14:39		1.015	0.00343	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 14:39		1.015	0.135	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 14:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 14:39		1.015	0.000682	mg/L	0.000068	0.000203	
* Chromium, Total	3/18/21 12:41	3/19/21 14:39		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 14:39		1.015	0.0559	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 14:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 14:39		1.015	0.000315	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 14:39		1.015	3.83	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:47		10.15	7.32	mg/L	0.000680	0.00203	RA
* Selenium, Total	3/18/21 12:41	3/19/21 14:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 14:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:55		10.15	7.08	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	248	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	375	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 3/9/21 13:50
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05176

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	248	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.08	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:31	3/11/21 12:31		1	18.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:52	3/11/21 15:52		1	0.0697	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:13	3/16/21 12:13		4	74.8	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/9/21 13:45	3/9/21 13:45			618.12	uS/cm			FA
pH	3/9/21 13:45	3/9/21 13:45			6.29	SU			FA
Temperature	3/9/21 13:45	3/9/21 13:45			18.00	C			FA
Turbidity	3/9/21 13:45	3/9/21 13:45			7.29	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 13:50

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BB05176

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05176	Arsenic, Total	mg/L	0.0000135	0.000147	0.10	0.112	0.113	0.104	0.0850 to 0.115	109	70.0 to 130	0.714	20.0
BB05176	Boron, Total	mg/L	0.0105	0.0650	1.00	2.27	2.29	1.01	0.850 to 1.15	101	70.0 to 130	0.746	20.0
BB05176	Beryllium, Total	mg/L	0.0000361	0.000880	0.10	0.0948	0.0937	0.0948	0.0850 to 0.115	94.8	70.0 to 130	1.14	20.0
BB05176	Mercury, Total by CVAA	mg/L	0.0000174	0.000500	0.004	0.00394	0.00398	0.00424	0.00340 to 0.00460	98.5	70.0 to 130	1.01	20.0
BB05176	Sodium, Total	mg/L	-0.00000561	0.0660	5.00	40.2	40.4	4.99	4.25 to 5.75	70.7	70.0 to 130	0.484	20.0
BB05176	Barium, Total	mg/L	-0.0000372	0.000200	0.10	0.238	0.241	0.102	0.0850 to 0.115	103	70.0 to 130	1.17	20.0
BB05176	Calcium, Total	mg/L	0.00131	0.152	5.00	72.5	74.4	5.10	4.25 to 5.75	61.1	70.0 to 130	2.54	20.0
BB05176	Cadmium, Total	mg/L	0.00000	0.000147	0.10	0.102	0.103	0.102	0.0850 to 0.115	102	70.0 to 130	0.274	20.0
BB05176	Manganese, Total	mg/L	-0.0000024	0.000147	0.10	7.51	7.48	0.104	0.0850 to 0.115	187	70.0 to 130	0.347	20.0
BB05176	Iron, Total	mg/L	0.000454	0.0176	0.2	10.6	10.8	0.204	0.170 to 0.230	-18.3	70.0 to 130	2.26	20.0
BB05176	Selenium, Total	mg/L	0.000337	0.00100	0.10	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.912	20.0
BB05176	Thallium, Total	mg/L	0.0000074	0.000147	0.10	0.0958	0.0964	0.0962	0.0850 to 0.115	95.8	70.0 to 130	0.596	20.0
BB05176	Cobalt, Total	mg/L	-0.0000005	0.000147	0.10	0.155	0.152	0.0974	0.0850 to 0.115	99.3	70.0 to 130	1.92	20.0
BB05176	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0992	0.0997	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.505	20.0
BB05176	Chromium, Total	mg/L	0.0000145	0.000440	0.10	0.103	0.101	0.0989	0.0850 to 0.115	103	70.0 to 130	2.08	20.0
BB05176	Potassium, Total	mg/L	0.0205	0.367	10.0	13.8	13.8	9.86	8.50 to 11.5	99.4	70.0 to 130	0.0964	20.0
BB05176	Lithium, Total	mg/L	-0.00000858	0.0154	0.20	0.248	0.249	0.201	0.170 to 0.230	115	70.0 to 130	0.445	20.0
BB05176	Magnesium, Total	mg/L	0.00122	0.0462	5.00	18.7	18.7	5.08	4.25 to 5.75	101	70.0 to 130	0.261	20.0
BB05176	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.101	0.104	0.0982	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BB05176	Antimony, Total	mg/L	0.000158	0.00100	0.10	0.107	0.107	0.0998	0.0850 to 0.115	107	70.0 to 130	0.206	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 13:50

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BB05176

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 3/10/21 09:20
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05177

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:09		1.015	0.224	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/25/21 11:09		1.015	27.3	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/25/21 11:09		1.015	0.336	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 11:09		1.015	0.0681	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:09		1.015	5.92	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:09		1.015	16.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 14:37		1.015	0.264	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:08		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:08		1.015	0.000592	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:08		1.015	0.0406	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:08		1.015	0.000170	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 15:08		1.015	0.000366	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:08		1.015	0.00662	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:08		1.015	0.000173	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 15:08		1.015	4.40	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 11:58		5.075	2.16	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 15:08		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 10:57		5.075	1.91	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	47.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	181	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 3/10/21 09:20
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05177

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	47.5	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:32	3/11/21 12:32		1	7.57	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:53	3/11/21 15:53		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:14	3/16/21 12:14		8	76.1	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/10/21 09:16	3/10/21 09:16			277.89	uS/cm			FA
pH	3/10/21 09:16	3/10/21 09:16			6.14	SU			FA
Temperature	3/10/21 09:16	3/10/21 09:16			18.38	C			FA
Turbidity	3/10/21 09:16	3/10/21 09:16			2.43	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 09:20

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BB05177

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 09:20

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BB05177

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05177	Chloride	mg/L	-0.0188	0.500	10.0	17.8	7.60	10.2	9.00 to 11.0	102	80.0 to 120	0.396	20.0
BB05177	Fluoride	mg/L	0.0336	0.0500	2.50	2.64	0.0617	2.64	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05177	Sulfate	mg/L	-0.114	0.500	160	225	76.6	19.0	18.0 to 22.0	93.1	80.0 to 120	0.655	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H DUP

Location Code: WMWGREAP
Collected: 3/10/21 09:20
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:13		1.015	0.215	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/25/21 11:13		1.015	27.0	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/25/21 11:13		1.015	0.349	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 11:13		1.015	0.0674	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:13		1.015	5.86	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:13		1.015	16.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 14:41		1.015	0.261	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:11		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:11		1.015	0.000584	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:11		1.015	0.0418	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:11		1.015	0.000176	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 15:11		1.015	0.000346	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:11		1.015	0.00672	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:11		1.015	0.000124	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 15:11		1.015	4.45	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 12:01		5.075	2.15	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 15:11		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:00		5.075	1.90	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	48.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	174	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H DUP

Location Code: WMWGREAP
Collected: 3/10/21 09:20
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	48.8	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:48	3/11/21 12:48		1	7.30	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:04	3/11/21 16:04		1	0.0602	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:40	3/16/21 12:40		4	73.3	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/10/21 09:16	3/10/21 09:16			277.89	uS/cm			FA
pH	3/10/21 09:16	3/10/21 09:16			6.14	SU			FA
Temperature	3/10/21 09:16	3/10/21 09:16			18.38	C			FA
Turbidity	3/10/21 09:16	3/10/21 09:16			2.43	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 09:20

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-49H DUP

Laboratory ID Number: BB05178

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0
BB05178	Iron, Dissolved	mg/L	-0.0000495	0.0176	0.2	0.461	0.459	0.205	0.170 to 0.230	100	70.0 to 130	0.435	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05178	Manganese, Dissolved	mg/L	0.000011	0.000147	0.10	1.98	1.98	0.103	0.0850 to 0.115	73.9	70.0 to 130	0.452	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 09:20

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-49H DUP

Laboratory ID Number: BB05178

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP
Collected: 3/10/21 10:25
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:16		1.015	0.188	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/25/21 11:16		1.015	22.1	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/25/21 11:16		1.015	0.0303	mg/L	0.008120	0.0406	J
* Lithium, Total	3/24/21 05:57	3/25/21 11:16		1.015	0.102	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:16		1.015	6.01	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:16		1.015	17.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:04		1.015	0.0189	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:15		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:15		1.015	0.000557	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:15		1.015	0.0281	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 15:15		1.015	0.000260	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:15		1.015	0.000388	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:15		1.015	0.000144	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 15:15		1.015	4.38	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 15:15		1.015	0.0717	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 15:15		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	3/22/21 12:15	3/23/21 11:37		1.015	0.0711	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	50.0	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	158	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP

Collected: 3/10/21 10:25

Customer ID:

Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	50.0	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.02	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 12:49	3/11/21 12:49		1	8.31	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:06	3/11/21 16:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:42	3/16/21 12:42		4	62.0	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/10/21 10:22	3/10/21 10:22			250.14	uS/cm			FA
pH	3/10/21 10:22	3/10/21 10:22			6.35	SU			FA
Temperature	3/10/21 10:22	3/10/21 10:22			17.35	C			FA
Turbidity	3/10/21 10:22	3/10/21 10:22			0.52	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 10:25

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BB05179

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 10:25

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BB05179

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 3/10/21 11:22
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:19		1.015	0.389	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:35		20.3	55.1	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 11:19		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/25/21 11:19		1.015	0.125	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:19		1.015	16.3	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:19		1.015	20.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:08		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:18		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:18		1.015	0.000251	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:18		1.015	0.0373	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 15:18		1.015	0.000224	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:18		1.015	0.00118	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:18		1.015	0.0611	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 15:18		1.015	5.25	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 12:05		5.075	3.91	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 15:18		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:08		5.075	3.66	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	81.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	331	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 3/10/21 11:22
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	81.6	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.10	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 12:50	3/11/21 12:50		1	9.30	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:07	3/11/21 16:07		1	0.161	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:43	3/16/21 12:43		10	155	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/10/21 11:19	3/10/21 11:19			445.25	uS/cm			FA
pH	3/10/21 11:19	3/10/21 11:19			6.89	SU			FA
Temperature	3/10/21 11:19	3/10/21 11:19			17.49	C			FA
Turbidity	3/10/21 11:19	3/10/21 11:19			0.32	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 11:22

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BB05180

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 11:22

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BB05180

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 3/10/21 12:13
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:23		1.015	0.528	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:38		20.3	44.9	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 11:23		1.015	0.0394	mg/L	0.008120	0.0406	J
* Lithium, Total	3/24/21 05:57	3/25/21 11:23		1.015	0.146	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:23		1.015	15.8	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:23		1.015	32.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:11		1.015	0.0303	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:22		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:22		1.015	0.000216	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:22		1.015	0.111	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:22		1.015	0.0000702	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 15:22		1.015	0.000333	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:22		1.015	0.00204	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:22		1.015	0.0123	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 15:22		1.015	7.19	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 15:22		1.015	1.21	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 15:22		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:22		1.015	0.000106	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 11:42		1.015	1.20	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	190	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	296	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 3/10/21 12:13
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	190	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.06	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 13:25	3/11/21 13:25		1.2	20.4	mg/L	0.600	1.2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:08	3/11/21 16:08		1	0.113	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:44	3/16/21 12:44		2	51.7	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/10/21 12:10	3/10/21 12:10			436.23	uS/cm			FA
pH	3/10/21 12:10	3/10/21 12:10			6.26	SU			FA
Temperature	3/10/21 12:10	3/10/21 12:10			21.71	C			FA
Turbidity	3/10/21 12:10	3/10/21 12:10			0.47	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 12:13

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BB05181

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 12:13

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BB05181

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 3/10/21 13:08
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:26		1.015	0.502	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/25/21 11:26		1.015	39.9	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/25/21 11:26		1.015	1.02	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 11:26		1.015	0.0826	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:26		1.015	11.4	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:26		1.015	33.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:15		1.015	0.987	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:26		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:26		1.015	0.00317	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:26		1.015	0.0637	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:26		1.015	0.000347	mg/L	0.000068	0.000203	
* Chromium, Total	3/18/21 12:41	3/19/21 15:26		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/18/21 12:41	3/19/21 15:26		1.015	0.0197	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:26		1.015	0.00701	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 15:26		1.015	7.32	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 12:08		5.075	5.08	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 15:26		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:26		1.015	0.000087	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:11		5.075	4.67	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	117	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	274	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 3/10/21 13:08
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50	1		116	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50	1		0.02	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 12:53	3/11/21 12:53	1		17.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:09	3/11/21 16:09	1		0.0749	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:45	3/16/21 12:45	4		73.2	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/10/21 13:05	3/10/21 13:05			427.54	uS/cm			FA
pH	3/10/21 13:05	3/10/21 13:05			5.97	SU			FA
Temperature	3/10/21 13:05	3/10/21 13:05			20.61	C			FA
Turbidity	3/10/21 13:05	3/10/21 13:05			0.24	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 13:08

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BB05182

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 13:08

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BB05182

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 3/10/21 14:33
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05183

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:29		1.015	0.625	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/25/21 11:29		1.015	39.3	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/25/21 11:29		1.015	0.655	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 11:29		1.015	0.194	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:29		1.015	13.6	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:29		1.015	14.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:18		1.015	0.213	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:29		1.015	0.00147	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:29		1.015	0.0543	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 15:29		1.015	0.000314	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:29		1.015	0.00442	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:29		1.015	0.0852	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 15:29		1.015	4.36	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 12:12		5.075	2.97	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 15:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:29		1.015	0.000103	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:22		5.075	2.83	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	85.1	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	247	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 3/10/21 14:33
Customer ID:
Submittal Date: 3/11/21 11:09

Laboratory ID Number: BB05183

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	85.0	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.11	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 12:54	3/11/21 12:54		1	6.50	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:10	3/11/21 16:10		1	0.176	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:46	3/16/21 12:46		4	90.9	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/10/21 14:29	3/10/21 14:29			369.67	uS/cm			FA
pH	3/10/21 14:29	3/10/21 14:29			6.83	SU			FA
Temperature	3/10/21 14:29	3/10/21 14:29			21.16	C			FA
Turbidity	3/10/21 14:29	3/10/21 14:29			4.71	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 14:33

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BB05183

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 14:33

Customer ID:

Delivery Date: 3/11/21 11:09

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BB05183

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 3/10/21 09:15
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05184

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:33		1.015	0.104	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:42		20.3	96.2	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 11:33		1.015	0.0200	mg/L	0.008120	0.0406	J
* Lithium, Total	3/24/21 05:57	3/25/21 11:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 11:33		1.015	7.29	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:33		1.015	3.39	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:21		1.015	0.0166	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:33		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 15:33		1.015	0.0719	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 15:33		1.015	0.000421	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:33		1.015	0.000455	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:33		1.015	0.000699	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 15:33		1.015	2.00	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 15:33		1.015	0.0451	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 15:33		1.015	0.0124	mg/L	0.000507	0.001015	
* Thallium, Total	3/18/21 12:41	3/19/21 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 11:50		1.015	0.0502	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	242	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	308	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 3/10/21 09:15
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05184

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	242	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.11	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:55	3/11/21 12:55		1	2.30	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:12	3/11/21 16:12		1	0.131	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:48	3/16/21 12:48		2	44.8	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/10/21 09:13	3/10/21 09:13			476.49	uS/cm			FA
pH	3/10/21 09:13	3/10/21 09:13			6.67	SU			FA
Temperature	3/10/21 09:13	3/10/21 09:13			18.52	C			FA
Turbidity	3/10/21 09:13	3/10/21 09:13			0.64	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 09:15

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BB05184

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 09:15

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BB05184

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 3/10/21 10:35
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05185

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:36		1.015	0.825	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:52		20.3	67.4	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 11:36		1.015	1.14	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 11:36		1.015	0.630	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:36		1.015	16.5	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:36		1.015	34.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:25		1.015	1.18	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:36		1.015	0.000349	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:36		1.015	0.0365	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:36		1.015	0.000120	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 15:36		1.015	0.000301	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:36		1.015	0.0189	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 15:36		1.015	9.99	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 12:16		5.075	2.37	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 15:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:36		1.015	0.0000878	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:24		5.075	2.23	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/19/21 11:10	3/19/21 12:45		1	167	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/12/21 11:00	3/16/21 15:10		1	397	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 3/10/21 10:35
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05185

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	167	mg/L			
Carbonate Alkalinity, (calc.)	3/19/21 11:10	3/19/21 12:45		1	0.02	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 12:56	3/11/21 12:56		1	11.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:13	3/11/21 16:13		1	0.115	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:49	3/16/21 12:49		8	136	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/10/21 10:33	3/10/21 10:33			608.42	uS/cm			FA
pH	3/10/21 10:33	3/10/21 10:33			6.08	SU			FA
Temperature	3/10/21 10:33	3/10/21 10:33			19.29	C			FA
Turbidity	3/10/21 10:33	3/10/21 10:33			0.45	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 10:35

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BB05185

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 10:35

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BB05185

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05185	Alkalinity, Total as CaCO3	mg/L					163	52.6	45.0 to 55.0			2.42	10.0
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05185	Solids, Dissolved	mg/L	0.0000	25.0			402	52.0	40.0 to 60.0			0.626	5.00

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 3/10/21 11:25
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05186

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:40		1.015	0.807	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 11:55		20.3	109	mg/L	1.4007	8.12	RA
* Iron, Total	3/24/21 05:57	3/25/21 11:40		1.015	0.240	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 11:40		1.015	0.772	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:40		1.015	28.7	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:40		1.015	34.3	mg/L	0.03045	0.406	RA
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:28		1.015	0.247	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 15:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 15:40		1.015	0.000443	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 15:40		1.015	0.0322	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 15:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 15:40		1.015	0.000171	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 15:40		1.015	0.000226	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 15:40		1.015	0.00791	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 15:40		1.015	11.1	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/25/21 12:19		5.075	2.76	mg/L	0.000340	0.001015	RA
* Selenium, Total	3/18/21 12:41	3/19/21 15:40		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 15:40		1.015	0.000186	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:27		5.075	2.59	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/22/21 10:49	3/22/21 15:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	155	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	602	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 3/10/21 11:25
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05186

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	155	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.03	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 12:58	3/11/21 12:58		1	6.74	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:14	3/11/21 16:14		1	0.112	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:50	3/16/21 12:50		20	292	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/10/21 11:21	3/10/21 11:21			713.51	uS/cm			FA
pH	3/10/21 11:21	3/10/21 11:21			5.99	SU			FA
Temperature	3/10/21 11:21	3/10/21 11:21			18.27	C			FA
Turbidity	3/10/21 11:21	3/10/21 11:21			0.76	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 11:25

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BB05186

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05186	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.107	0.105	0.1000	0.0850 to 0.115	107	70.0 to 130	2.30	20.0
BB05186	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.464	20.0
BB05186	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.138	0.136	0.101	0.0850 to 0.115	106	70.0 to 130	1.76	20.0
BB05186	Calcium, Total	mg/L	0.00531	0.152	5.00	112	115	5.06	4.25 to 5.75	50.4	70.0 to 130	2.35	20.0
BB05186	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.109	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05186	Boron, Total	mg/L	0.0141	0.0650	1.00	1.84	1.82	1.01	0.850 to 1.15	104	70.0 to 130	1.27	20.0
BB05186	Iron, Total	mg/L	0.000254	0.0176	0.2	0.436	0.438	0.204	0.170 to 0.230	98.0	70.0 to 130	0.426	20.0
BB05186	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.0982	0.0986	0.0987	0.0850 to 0.115	98.2	70.0 to 130	0.334	20.0
BB05186	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0955	0.0953	0.0953	0.0850 to 0.115	95.3	70.0 to 130	0.226	20.0
BB05186	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.105	0.106	0.0987	0.0850 to 0.115	96.9	70.0 to 130	1.30	20.0
BB05186	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.460	20.0
BB05186	Potassium, Total	mg/L	0.00727	0.367	10.0	21.0	21.2	10.2	8.50 to 11.5	98.4	70.0 to 130	1.16	20.0
BB05186	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	1.01	1.00	0.204	0.170 to 0.230	120	70.0 to 130	0.963	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0
BB05186	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.101	0.0991	0.0989	0.0850 to 0.115	101	70.0 to 130	1.81	20.0
BB05186	Magnesium, Total	mg/L	0.00147	0.0462	5.00	33.7	33.9	5.06	4.25 to 5.75	100	70.0 to 130	0.476	20.0
BB05186	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.101	0.102	0.100	0.0850 to 0.115	101	70.0 to 130	0.476	20.0
BB05186	Sodium, Total	mg/L	0.00282	0.0660	5.00	37.4	37.2	5.08	4.25 to 5.75	62.5	70.0 to 130	0.539	20.0
BB05186	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.103	0.105	0.0946	0.0850 to 0.115	103	70.0 to 130	1.80	20.0
BB05186	Mercury, Total by CVAA	mg/L	0.0000172	0.000500	0.004	0.00398	0.00404	0.00420	0.00340 to 0.00460	99.5	70.0 to 130	1.50	20.0
BB05186	Manganese, Total	mg/L	0.0000633	0.000147	0.10	2.81	2.87	0.106	0.0850 to 0.115	42.4	70.0 to 130	2.07	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 11:25

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BB05186

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H DUP

Location Code: WMWGREAP
Collected: 3/10/21 11:25
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05187

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 11:56		1.015	0.810	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 12:06		20.3	110	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 11:56		1.015	0.260	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 11:56		1.015	0.765	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 11:56		1.015	28.8	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 11:56		1.015	34.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:32		1.015	0.224	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:01		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 16:01		1.015	0.000401	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 16:01		1.015	0.0325	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 16:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:01		1.015	0.0000884	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 16:01		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/18/21 12:41	3/19/21 16:01		1.015	0.00749	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 16:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 16:01		1.015	11.2	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:19		5.075	2.78	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 16:01		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 16:01		1.015	0.000178	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:30		5.075	2.52	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 13:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	146	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	600	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H DUP

Location Code: WMWGREAP
Collected: 3/10/21 11:25
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05187

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	146	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.03	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 12:59	3/11/21 12:59		1	6.62	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:15	3/11/21 16:15		1	0.113	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 12:51	3/16/21 12:51		32	285	mg/L	16.00	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/10/21 11:21	3/10/21 11:21			713.51	uS/cm			FA
pH	3/10/21 11:21	3/10/21 11:21			5.99	SU			FA
Temperature	3/10/21 11:21	3/10/21 11:21			18.27	C			FA
Turbidity	3/10/21 11:21	3/10/21 11:21			0.76	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 11:25

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-40H DUP

Laboratory ID Number: BB05187

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 11:25

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-40H DUP

Laboratory ID Number: BB05187

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05187	Chloride	mg/L	-0.0439	0.500	10.0	16.9	6.70	10.1	9.00 to 11.0	103	80.0 to 120	1.20	20.0
BB05187	Fluoride	mg/L	0.0269	0.0500	2.50	2.69	0.117	2.66	2.25 to 2.75	103	80.0 to 120	3.48	20.0
BB05187	Sulfate	mg/L	-0.20	0.500	640	881	292	19.0	18.0 to 22.0	93.1	80.0 to 120	2.43	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 3/10/21 12:32
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 12:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/30/21 12:09		20.3	42.8	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 12:00		1.015	0.123	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 12:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 12:00		1.015	5.12	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 12:00		1.015	2.76	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:35		1.015	0.250	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:05		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 16:05		1.015	0.000450	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 16:05		1.015	0.0873	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 16:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 16:05		1.015	0.000433	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 16:05		1.015	0.000676	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 16:05		1.015	1.61	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 16:05		1.015	0.149	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 16:05		1.015	0.00139	mg/L	0.000507	0.001015	
* Thallium, Total	3/18/21 12:41	3/19/21 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 12:01		1.015	0.127	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 13:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	13.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	179	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 3/10/21 12:32
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50	1		13.6	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50	1		0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 13:24	3/11/21 13:24	1		3.51	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:27	3/11/21 16:27	1		Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 13:11	3/16/21 13:11	8		99.9	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/10/21 12:29	3/10/21 12:29			273.28	uS/cm			FA
pH	3/10/21 12:29	3/10/21 12:29			5.14	SU			FA
Temperature	3/10/21 12:29	3/10/21 12:29			19.27	C			FA
Turbidity	3/10/21 12:29	3/10/21 12:29			0.53	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 12:32

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BB05188

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0	
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0	
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0	
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0	
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0	
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0	
BB05188	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	0.446	0.450	0.204	0.170 to 0.230	98.0	70.0 to 130	0.893	20.0	
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0	
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0	
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0	
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0	
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0	
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0	
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0	
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0	
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0	
BB05188	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	0.229	0.231	0.104	0.0850 to 0.115	102	70.0 to 130	0.605	20.0	
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0	
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0	
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0	
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0	
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0	

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 12:32

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BB05188

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00
BB05191	Fluoride	mg/L	0.0282	0.0500	2.50	2.61	0.0228	2.67	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05191	Chloride	mg/L	-0.0469	0.500	10.0	10.2	0.120	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05191	Sulfate	mg/L	-0.0723	0.500	20.0	18.5	0.0924	18.8	18.0 to 22.0	89.8	80.0 to 120	141	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 3/10/21 13:25
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	3/24/21 05:57	3/25/21 12:03		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/24/21 05:57	3/25/21 12:03		1.015	26.6	mg/L	0.070035	0.406		
* Iron, Total	3/24/21 05:57	3/25/21 12:03		1.015	0.0125	mg/L	0.008120	0.0406	J	
* Lithium, Total	3/24/21 05:57	3/25/21 12:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/24/21 05:57	3/25/21 12:03		1.015	2.05	mg/L	0.021315	0.406		
* Sodium, Total	3/24/21 05:57	3/25/21 12:03		1.015	2.42	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	3/15/21 12:46	3/16/21 15:52		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/18/21 12:41	3/19/21 16:09		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	3/18/21 12:41	3/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	3/18/21 12:41	3/19/21 16:09		1.015	0.0305	mg/L	0.000101	0.000203		
* Beryllium, Total	3/18/21 12:41	3/19/21 16:09		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/18/21 12:41	3/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/18/21 12:41	3/19/21 16:09		1.015	0.000432	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/18/21 12:41	3/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/18/21 12:41	3/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:09		1.015	0.000179	mg/L	0.000068	0.000203	J	
* Potassium, Total	3/18/21 12:41	3/19/21 16:09		1.015	0.760	mg/L	0.169505	0.5075		
* Manganese, Total	3/18/21 12:41	3/19/21 16:09		1.015	0.000347	mg/L	0.000068	0.000203		
* Selenium, Total	3/18/21 12:41	3/19/21 16:09		1.015	0.00117	mg/L	0.000507	0.001015		
* Thallium, Total	3/18/21 12:41	3/19/21 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	3/22/21 12:15	3/23/21 12:16		1.015	0.000133	mg/L	0.000068	0.000203	J	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:00		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	72.2	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638					
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	105	mg/L		25		

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 3/10/21 13:25
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	72.2	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.02	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 13:18	3/11/21 13:18		1	1.30	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:28	3/11/21 16:28		1	0.085	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 13:05	3/16/21 13:05		1	11.8	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/10/21 13:21	3/10/21 13:21			163.76	uS/cm			FA
pH	3/10/21 13:21	3/10/21 13:21			6.17	SU			FA
Temperature	3/10/21 13:21	3/10/21 13:21			17.45	C			FA
Turbidity	3/10/21 13:21	3/10/21 13:21			1.09	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/10/21 13:25
Customer ID:
Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BB05189

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05190	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	36.3	36.3	0.204	0.170 to 0.230	-50.0	70.0 to 130	0.00	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 13:25

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BB05189

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05191	Fluoride	mg/L	0.0282	0.0500	2.50	2.61	0.0228	2.67	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00
BB05191	Chloride	mg/L	-0.0469	0.500	10.0	10.2	0.120	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05191	Sulfate	mg/L	-0.0723	0.500	20.0	18.5	0.0924	18.8	18.0 to 22.0	89.8	80.0 to 120	141	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 3/10/21 14:45
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 12:07		1.015	0.338	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 12:12		20.3	157	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 12:12		20.3	36.9	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 12:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 12:07		1.015	33.0	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 12:07		1.015	28.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/15/21 12:46	3/19/21 14:08		101.5	36.4	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:13		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 16:13		1.015	0.00597	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 16:13		1.015	0.0759	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 16:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 16:13		1.015	0.000247	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 16:13		1.015	0.167	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 16:13		1.015	6.43	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:23		10.15	7.03	mg/L	0.000680	0.00203	
* Selenium, Total	3/18/21 12:41	3/19/21 16:13		1.015	0.00130	mg/L	0.000507	0.001015	
* Thallium, Total	3/18/21 12:41	3/19/21 16:13		1.015	0.0000761	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:32		10.15	6.77	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	85.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	876	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 3/10/21 14:45
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	85.8	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.02	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 13:19	3/11/21 13:19		1	8.48	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:29	3/11/21 16:29		1	0.118	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 13:12	3/16/21 13:12		32	510	mg/L	16.00	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/10/21 14:41	3/10/21 14:41			1139.01	uS/cm			FA
pH	3/10/21 14:41	3/10/21 14:41			6.04	SU			FA
Temperature	3/10/21 14:41	3/10/21 14:41			21.21	C			FA
Turbidity	3/10/21 14:41	3/10/21 14:41			0.95	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/10/21 14:45
Customer ID:
Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BB05190

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05190	Iron, Dissolved	mg/L	0.000176	0.0176	0.2	36.3	36.3	0.204	0.170 to 0.230	-50.0	70.0 to 130	0.00	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/10/21 14:45

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BB05190

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00
BB05191	Fluoride	mg/L	0.0282	0.0500	2.50	2.61	0.0228	2.67	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05191	Chloride	mg/L	-0.0469	0.500	10.0	10.2	0.120	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05191	Sulfate	mg/L	-0.0723	0.500	20.0	18.5	0.0924	18.8	18.0 to 22.0	89.8	80.0 to 120	141	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-2

Location Code: WMWGREAPFB
Collected: 3/10/21 15:05
Customer ID:
Submittal Date: 3/11/21 11:10

Laboratory ID Number: BB05191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 12:10		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/25/21 12:10		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/24/21 05:57	3/25/21 12:10		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/25/21 12:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 12:10		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/24/21 05:57	3/25/21 12:10		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 16:17		1.015	0.000407	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/18/21 12:41	3/19/21 16:17		1.015	0.000136	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 16:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/16/21 16:20	3/18/21 16:10		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 13:20	3/11/21 13:20		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 16:30	3/11/21 16:30		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 13:07	3/16/21 13:07		1	0.538	mg/L	0.50	1	J

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

Comments: Sulfate precision limit was exceeded, however the precision is invalid due to sample concentration. LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/10/21 15:05

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BB05191

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0

Comments: Sulfate precision limit was exceeded, however the precision is invalid due to sample concentration. LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/10/21 15:05

Customer ID:

Delivery Date: 3/11/21 11:10

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BB05191

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05191	Fluoride	mg/L	0.0282	0.0500	2.50	2.61	0.0228	2.67	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05190	Solids, Dissolved	mg/L	-2.00	25.0			876	49.0	40.0 to 60.0			0.00	5.00
BB05191	Chloride	mg/L	-0.0469	0.500	10.0	10.2	0.120	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05191	Sulfate	mg/L	-0.0723	0.500	20.0	18.5	0.0924	18.8	18.0 to 22.0	89.8	80.0 to 120	141	20.0

Comments: Sulfate precision limit was exceeded, however the precision is invalid due to sample concentration. LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 3/15/21 11:08
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05500

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 12:13		1.015	1.79	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 12:16		20.3	73.8	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/30/21 12:16		20.3	28.1	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/25/21 12:13		1.015	0.155	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 12:13		1.015	11.9	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 12:13		1.015	37.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:39		101.5	27.4	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:20		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 16:20		1.015	0.0125	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 16:20		1.015	0.261	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 16:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 16:20		1.015	0.000357	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 16:20		1.015	0.0475	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:20		1.015	0.0103	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 16:20		1.015	4.15	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:26		10.15	6.47	mg/L	0.000680	0.00203	
* Selenium, Total	3/18/21 12:41	3/19/21 16:20		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:35		10.15	6.12	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	318	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	406	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 3/15/21 11:08
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05500

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	318	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.09	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 10:45	3/23/21 10:45		2	23.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:37	3/22/21 14:37		1	0.324	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:53	3/22/21 11:53		4	68.5	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/15/21 11:05	3/15/21 11:05			670.26	uS/cm			FA
pH	3/15/21 11:05	3/15/21 11:05			6.29	SU			FA
Temperature	3/15/21 11:05	3/15/21 11:05			19.55	C			FA
Turbidity	3/15/21 11:05	3/15/21 11:05			0.4	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 11:08

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BB05500

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 11:08

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BB05500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 3/15/21 12:02
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05501

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 12:17		1.015	0.523	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 12:19		20.3	68.9	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 12:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/25/21 12:17		1.015	0.308	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 12:17		1.015	15.3	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 12:17		1.015	21.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 11:06		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:24		1.015	0.00160	mg/L	0.000507	0.001015	
* Arsenic, Total	3/18/21 12:41	3/19/21 16:24		1.015	0.00207	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 16:24		1.015	0.0699	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 16:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 16:24		1.015	0.000311	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 16:24		1.015	0.000312	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:24		1.015	0.0146	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 16:24		1.015	6.31	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:30		5.075	2.65	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 16:24		1.015	0.0175	mg/L	0.000507	0.001015	
* Thallium, Total	3/18/21 12:41	3/19/21 16:24		1.015	0.000506	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/25/21 11:37		5.075	2.52	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	54.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	374	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 3/15/21 12:02
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05501

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	54.2	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.01	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 10:35	3/23/21 10:35		1	7.68	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:39	3/22/21 14:39		1	0.0737	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:54	3/22/21 11:54		16	204	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/15/21 11:59	3/15/21 11:59			530.52	uS/cm			FA
pH	3/15/21 11:59	3/15/21 11:59			6.00	SU			FA
Temperature	3/15/21 11:59	3/15/21 11:59			16.22	C			FA
Turbidity	3/15/21 11:59	3/15/21 11:59			0.44	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/15/21 12:02
Customer ID:
Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BB05501

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 12:02

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BB05501

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13 DUP

Location Code: WMWGREAP
Collected: 3/15/21 12:02
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05502

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 12:20		1.015	0.519	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/30/21 12:22		20.3	70.2	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/25/21 12:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/25/21 12:20		1.015	0.310	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/25/21 12:20		1.015	15.4	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 12:20		1.015	21.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Iron, Dissolved	3/23/21 15:09	3/24/21 11:09		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.00144	mg/L	0.000507	0.001015	
* Arsenic, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.00209	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.0710	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 16:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.0000719	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.000273	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.000321	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.0141	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 16:28		1.015	6.23	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:33		5.075	2.69	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.0167	mg/L	0.000507	0.001015	
* Thallium, Total	3/18/21 12:41	3/19/21 16:28		1.015	0.000521	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Manganese, Dissolved	3/22/21 12:15	3/25/21 11:40		5.075	2.47	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: ABB		Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG		Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	49.8	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW		Preparation Method: EPA 1638				
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	380	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13 DUP

Location Code: WMWGREAP
Collected: 3/15/21 12:02
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05502

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	49.8	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 10:36	3/23/21 10:36		1	7.66	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:40	3/22/21 14:40		1	0.0678	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:56	3/22/21 11:56		16	200	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/15/21 11:59	3/15/21 11:59			530.52	uS/cm			FA
pH	3/15/21 11:59	3/15/21 11:59			6.00	SU			FA
Temperature	3/15/21 11:59	3/15/21 11:59			16.22	C			FA
Turbidity	3/15/21 11:59	3/15/21 11:59			0.44	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/15/21 12:02
Customer ID:
Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-13 DUP

Laboratory ID Number: BB05502

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 12:02

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-13 DUP

Laboratory ID Number: BB05502

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 3/15/21 13:25
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05503

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 12:24		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/25/21 12:24		1.015	5.90	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/25/21 12:24		1.015	0.116	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/25/21 12:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 12:24		1.015	1.17	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/25/21 12:24		1.015	5.75	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/23/21 15:09	3/24/21 11:13		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:31		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 16:31		1.015	0.000111	mg/L	0.000068	0.000203	J
* Barium, Total	3/18/21 12:41	3/19/21 16:31		1.015	0.0316	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 16:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 16:31		1.015	0.000468	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 16:31		1.015	0.000624	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:31		1.015	0.0000741	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 16:31		1.015	1.14	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 16:31		1.015	0.00694	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 16:31		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 16:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/22/21 12:15	3/23/21 12:30		1.015	0.00640	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	20.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	49.3	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 3/15/21 13:25
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05503

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	20.3	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 10:37	3/23/21 10:37		1	5.47	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:41	3/22/21 14:41		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:44	3/22/21 11:44		1	3.74	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/15/21 13:21	3/15/21 13:21			72.09	uS/cm			FA
pH	3/15/21 13:21	3/15/21 13:21			5.61	SU			FA
Temperature	3/15/21 13:21	3/15/21 13:21			17.24	C			FA
Turbidity	3/15/21 13:21	3/15/21 13:21			0.62	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/15/21 13:25
Customer ID:
Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BB05503

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 13:25

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BB05503

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-5

Location Code: WMWGREAPFB
Collected: 3/15/21 14:02
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05504

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/25/21 12:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/25/21 12:27		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/24/21 05:57	3/25/21 12:27		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/25/21 12:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/25/21 12:27		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/24/21 05:57	3/25/21 12:27		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 16:35		1.015	0.000227	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 10:38	3/23/21 10:38		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:42	3/22/21 14:42		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:45	3/22/21 11:45		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/15/21 14:02

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BB05504

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
BB05504	Mercury, Total by CVAA	mg/L	0.0000529	0.000500	0.004	0.00366	0.00356	0.00356	0.00340 to 0.00460	91.5	70.0 to 130	2.77	20.0
BB05504	Beryllium, Total	mg/L	0.0000291	0.000880	0.10	0.0913	0.0917	0.0946	0.0850 to 0.115	91.3	70.0 to 130	0.523	20.0
BB05504	Chromium, Total	mg/L	0.0000852	0.000440	0.10	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.434	20.0
BB05504	Molybdenum, Total	mg/L	0.0000159	0.000147	0.10	0.100	0.0997	0.100	0.0850 to 0.115	100	70.0 to 130	0.779	20.0
BB05504	Thallium, Total	mg/L	0.0000089	0.000147	0.10	0.0961	0.0948	0.0953	0.0850 to 0.115	96.1	70.0 to 130	1.35	20.0
BB05504	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.0989	0.0850 to 0.115	102	70.0 to 130	0.512	20.0
BB05504	Iron, Total	mg/L	0.000254	0.0176	0.2	0.203	0.201	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB05504	Sodium, Total	mg/L	0.00282	0.0660	5.00	5.01	5.03	5.08	4.25 to 5.75	100	70.0 to 130	0.425	20.0
BB05504	Boron, Total	mg/L	0.0141	0.0650	1.00	0.990	0.993	1.01	0.850 to 1.15	99.0	70.0 to 130	0.346	20.0
BB05504	Lithium, Total	mg/L	-0.0000261	0.0154	0.20	0.200	0.200	0.204	0.170 to 0.230	100	70.0 to 130	0.0869	20.0
BB05504	Manganese, Total	mg/L	0.0000633	0.000147	0.10	0.108	0.106	0.106	0.0850 to 0.115	108	70.0 to 130	1.59	20.0
BB05504	Barium, Total	mg/L	-0.000012	0.000200	0.10	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	1.26	20.0
BB05504	Potassium, Total	mg/L	0.00727	0.367	10.0	10.1	10.4	10.2	8.50 to 11.5	101	70.0 to 130	2.75	20.0
BB05504	Magnesium, Total	mg/L	0.00147	0.0462	5.00	5.02	4.99	5.06	4.25 to 5.75	100	70.0 to 130	0.621	20.0
BB05504	Lead, Total	mg/L	0.0000083	0.000147	0.10	0.1000	0.0981	0.0987	0.0850 to 0.115	100	70.0 to 130	1.88	20.0
BB05504	Selenium, Total	mg/L	0.000203	0.00100	0.10	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.901	20.0
BB05504	Arsenic, Total	mg/L	-0.0000082	0.000147	0.10	0.107	0.105	0.108	0.0850 to 0.115	107	70.0 to 130	2.61	20.0
BB05504	Calcium, Total	mg/L	0.00531	0.152	5.00	5.03	4.94	5.06	4.25 to 5.75	101	70.0 to 130	1.94	20.0
BB05504	Cobalt, Total	mg/L	0.0000016	0.000147	0.10	0.0995	0.101	0.0987	0.0850 to 0.115	99.5	70.0 to 130	1.51	20.0
BB05504	Antimony, Total	mg/L	0.000132	0.00100	0.10	0.100	0.103	0.1000	0.0850 to 0.115	100	70.0 to 130	2.41	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/15/21 14:02

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BB05504

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 3/15/21 14:18
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05505

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 09:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 09:33		1.015	2.02	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/29/21 09:33		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/29/21 09:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 09:33		1.015	2.50	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 09:33		1.015	3.98	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/23/21 15:09	3/24/21 11:16		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:04		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:04		1.015	0.000142	mg/L	0.000068	0.000203	J
* Barium, Total	3/18/21 12:41	3/19/21 17:04		1.015	0.0692	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 17:04		1.015	0.000431	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:04		1.015	0.000908	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 17:04		1.015	0.000121	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 17:04		1.015	3.22	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 17:04		1.015	0.0168	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 17:04		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/22/21 12:15	3/23/21 12:32		1.015	0.0167	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	0.48	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	46.0	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 3/15/21 14:18
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05505

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.48	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/23/21 10:40	3/23/21 10:40		1	5.57	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:43	3/22/21 14:43		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:47	3/22/21 11:47		1	8.50	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/15/21 14:15	3/15/21 14:15			71.72	uS/cm			FA
pH	3/15/21 14:15	3/15/21 14:15			4.57	SU			FA
Temperature	3/15/21 14:15	3/15/21 14:15			18.31	C			FA
Turbidity	3/15/21 14:15	3/15/21 14:15			0.33	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 14:18

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BB05505

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 14:18

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BB05505

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 3/15/21 15:16
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05506

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 09:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 09:36		1.015	9.77	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/29/21 09:36		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/29/21 09:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 09:36		1.015	0.679	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 09:36		1.015	3.67	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/23/21 15:09	3/24/21 11:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 17:07		1.015	0.0144	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 17:07		1.015	0.000679	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 17:07		1.015	0.764	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 17:07		1.015	0.000191	mg/L	0.000068	0.000203	J
* Selenium, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/22/21 12:15	3/23/21 12:35		1.015	0.000193	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	31.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	48.0	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 3/15/21 15:16
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05506

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	31.0	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/23/21 10:41	3/23/21 10:41		1	4.18	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:45	3/22/21 14:45		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:48	3/22/21 11:48		1	2.76	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/15/21 15:14	3/15/21 15:14			70.20	uS/cm			FA
pH	3/15/21 15:14	3/15/21 15:14			5.83	SU			FA
Temperature	3/15/21 15:14	3/15/21 15:14			19.78	C			FA
Turbidity	3/15/21 15:14	3/15/21 15:14			0.35	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 15:16

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BB05506

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 15:16

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BB05506

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 3/15/21 16:15
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05507

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 09:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 09:40		1.015	12.6	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/29/21 09:40		1.015	0.0470	mg/L	0.008120	0.0406	
* Lithium, Total	3/24/21 05:57	3/29/21 09:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 09:40		1.015	1.87	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 09:40		1.015	14.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/23/21 15:09	3/24/21 11:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:11		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:11		1.015	0.000158	mg/L	0.000068	0.000203	J
* Barium, Total	3/18/21 12:41	3/19/21 17:11		1.015	0.0532	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 17:11		1.015	0.000473	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:11		1.015	0.00198	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 17:11		1.015	1.05	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 17:11		1.015	0.00851	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 17:11		1.015	0.000704	mg/L	0.000507	0.001015	J
* Thallium, Total	3/18/21 12:41	3/19/21 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/22/21 12:15	3/23/21 12:38		1.015	0.00909	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	27.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	96.0	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 3/15/21 16:15
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05507

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	27.4	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/23/21 10:42	3/23/21 10:42		1	5.81	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:46	3/22/21 14:46		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:49	3/22/21 11:49		1	25.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/15/21 16:12	3/15/21 16:12			148.97	uS/cm			FA
pH	3/15/21 16:12	3/15/21 16:12			5.32	SU			FA
Temperature	3/15/21 16:12	3/15/21 16:12			20.68	C			FA
Turbidity	3/15/21 16:12	3/15/21 16:12			0.51	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 16:15

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BB05507

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 16:15

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BB05507

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 3/16/21 10:24
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05508

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 09:43		1.015	0.694	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/29/21 11:02		20.3	99.7	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/29/21 11:02		20.3	37.0	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/29/21 09:43		1.015	0.149	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/29/21 09:43		1.015	19.7	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 09:43		1.015	24.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:43		101.5	34.0	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:14		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:14		1.015	0.473	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 17:14		1.015	0.143	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 17:14		1.015	0.000285	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:14		1.015	0.00857	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:14		1.015	0.00358	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 17:14		1.015	7.44	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:37		5.075	2.13	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 17:14		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:43		5.075	1.96	mg/L	0.000340	0.001015	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/23/21 09:38	3/23/21 10:50		1	233	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	510	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 3/16/21 10:24
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05508

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	233	mg/L			
Carbonate Alkalinity, (calc.)	3/23/21 09:38	3/23/21 10:50		1	0.10	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 10:43	3/23/21 10:43		1	10.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:47	3/22/21 14:47		1	0.282	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:55	3/22/21 11:55		10	167	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/16/21 10:21	3/16/21 10:21			763.87	uS/cm			FA
pH	3/16/21 10:21	3/16/21 10:21			6.64	SU			FA
Temperature	3/16/21 10:21	3/16/21 10:21			18.86	C			FA
Turbidity	3/16/21 10:21	3/16/21 10:21			8.65	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/16/21 10:24
Customer ID:
Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BB05508

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05508	Manganese, Dissolved	mg/L	0.0000698	0.000147	0.10	2.04	2.02	0.104	0.0850 to 0.115	83.0	70.0 to 130	1.12	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 10:24

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BB05508

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05508	Alkalinity, Total as CaCO3	mg/L					239	52.3	45.0 to 55.0			2.54	10.0
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05508	Solids, Dissolved	mg/L	-1.00	25.0			509	52.0	40.0 to 60.0			0.0981	5.00
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 3/16/21 11:23
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05509

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 09:46		1.015	0.0445	mg/L	0.030000	0.1015	J
* Calcium, Total	3/24/21 05:57	3/29/21 11:06		20.3	66.6	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/29/21 11:06		20.3	55.6	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/29/21 09:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 09:46		1.015	4.27	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 09:46		1.015	31.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:46		101.5	55.4	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:18		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:18		1.015	0.0112	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 17:18		1.015	0.159	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 17:18		1.015	0.000347	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:18		1.015	0.000760	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 17:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 17:18		1.015	0.795	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 17:18		1.015	0.415	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 17:18		1.015	0.000959	mg/L	0.000507	0.001015	J
* Thallium, Total	3/18/21 12:41	3/19/21 17:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 13:01		1.015	0.409	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	372	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/22/21 16:40	3/25/21 11:35		1	340	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 3/16/21 11:23
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05509

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	372	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.06	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/23/21 10:57	3/23/21 10:57		4	24.4	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 14:48	3/22/21 14:48		1	0.230	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 11:51	3/22/21 11:51		1	7.62	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/16/21 11:20	3/16/21 11:20			589.66	uS/cm			FA
pH	3/16/21 11:20	3/16/21 11:20			6.23	SU			FA
Temperature	3/16/21 11:20	3/16/21 11:20			19.34	C			FA
Turbidity	3/16/21 11:20	3/16/21 11:20			1.49	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 11:23

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BB05509

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 11:23

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BB05509

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05509	Chloride	mg/L	-0.0362	0.500	40.0	64.8	21.1	9.97	9.00 to 11.0	101	80.0 to 120	14.5	20.0
BB05509	Sulfate	mg/L	-0.175	0.500	20.0	25.0	7.56	18.9	18.0 to 22.0	86.9	80.0 to 120	0.791	20.0
BB05509	Fluoride	mg/L	0.0319	0.0500	2.50	2.80	0.207	2.48	2.25 to 2.75	103	80.0 to 120	10.5	20.0
BB05521	Solids, Dissolved	mg/L	-1.00	25.0			766	49.0	40.0 to 60.0			0.657	5.00
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 3/16/21 12:21
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05510

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 09:50		1.015	0.134	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/29/21 11:09		20.3	145	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/29/21 11:09		20.3	63.5	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/29/21 09:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 09:50		1.015	22.2	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 09:50		1.015	33.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:50		101.5	60.9	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:21		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:21		1.015	0.00450	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 17:21		1.015	0.0330	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:21		1.015	0.000130	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 17:21		1.015	0.000400	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:21		1.015	0.0272	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 17:21		1.015	0.000736	mg/L	0.000068	0.000203	
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:21		1.015	0.0000804	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 17:21		1.015	6.47	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:41		10.15	6.00	mg/L	0.000680	0.00203	
* Selenium, Total	3/18/21 12:41	3/19/21 17:21		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:21		1.015	0.000101	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 11:59		10.15	5.56	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	46.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	890	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 3/16/21 12:21
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05510

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35	1		46.3	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35	1		0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:08	3/23/21 11:08	1		11.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:00	3/22/21 15:00	1		0.185	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:20	3/22/21 12:20	32		548	mg/L	16.00	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/16/21 12:18	3/16/21 12:18			1098.78	uS/cm			FA
pH	3/16/21 12:18	3/16/21 12:18			5.87	SU			FA
Temperature	3/16/21 12:18	3/16/21 12:18			18.82	C			FA
Turbidity	3/16/21 12:18	3/16/21 12:18			4.59	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 12:21

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BB05510

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05510	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	62.3	62.5	0.206	0.170 to 0.230	700	70.0 to 130	0.321	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 12:21

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BB05510

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/16/21 12:50
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05511

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 09:53		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 09:53		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/24/21 05:57	3/29/21 09:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/29/21 09:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 09:53		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/24/21 05:57	3/29/21 09:53		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 17:25		1.015	0.000342	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/18/21 12:41	3/19/21 17:25		1.015	0.0000845	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/22/21 16:40	3/25/21 11:35		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/23/21 11:09	3/23/21 11:09		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/22/21 15:01	3/22/21 15:01		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/22/21 12:09	3/22/21 12:09		1	0.545	mg/L	0.50	1	J

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/16/21 12:50

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05511

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/16/21 12:50

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05511

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05521	Solids, Dissolved	mg/L	-1.00	25.0			766	49.0	40.0 to 60.0			0.657	5.00
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 3/15/21 10:54
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05512

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 09:56		1.015	0.659	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/29/21 11:13		10.15	70.4	mg/L	0.70035	4.06	
* Iron, Total	3/24/21 05:57	3/29/21 11:13		10.15	6.26	mg/L	0.08120	0.406	
* Lithium, Total	3/24/21 05:57	3/29/21 09:56		1.015	0.0459	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/24/21 05:57	3/29/21 09:56		1.015	6.72	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 09:56		1.015	29.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 13:00		10.15	5.45	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:29		1.015	0.00174	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 17:29		1.015	0.116	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 17:29		1.015	0.000553	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:29		1.015	0.00472	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:29		1.015	0.000131	mg/L	0.000068	0.000203	J
* Potassium, Total	3/18/21 12:41	3/19/21 17:29		1.015	4.95	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:45		5.075	1.93	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 17:29		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 12:01		5.075	1.85	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	177	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	321	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 3/15/21 10:54
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05512

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	177	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.05	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:10	3/23/21 11:10		1	15.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:02	3/22/21 15:02		1	0.0721	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:21	3/22/21 12:21		4	80.9	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/15/21 10:50	3/15/21 10:50			522.28	uS/cm			FA
pH	3/15/21 10:50	3/15/21 10:50			6.43	SU			FA
Temperature	3/15/21 10:50	3/15/21 10:50			19.13	C			FA
Turbidity	3/15/21 10:50	3/15/21 10:50			8.32	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 10:54

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BB05512

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 10:54

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BB05512

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 3/15/21 12:14
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05513

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 10:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 10:00		1.015	0.646	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/29/21 10:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/29/21 10:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 10:00		1.015	0.234	mg/L	0.021315	0.406	J
* Sodium, Total	3/24/21 05:57	3/29/21 10:00		1.015	3.85	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/23/21 15:09	3/24/21 11:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:32		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 17:32		1.015	0.0462	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:32		1.015	0.0000819	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 17:32		1.015	0.000502	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:32		1.015	0.000137	mg/L	0.000068	0.000203	J
* Lead, Total	3/18/21 12:41	3/19/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 17:32		1.015	0.949	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 17:32		1.015	0.00768	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 17:32		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/22/21 12:15	3/23/21 13:09		1.015	0.00742	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	2.16	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	30.0	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 3/15/21 12:14
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05513

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	2.16	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:11	3/23/21 11:11		1	4.38	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:03	3/22/21 15:03		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:12	3/22/21 12:12		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/15/21 12:11	3/15/21 12:11			30.49	uS/cm			FA
pH	3/15/21 12:11	3/15/21 12:11			5.02	SU			FA
Temperature	3/15/21 12:11	3/15/21 12:11			18.20	C			FA
Turbidity	3/15/21 12:11	3/15/21 12:11			1.25	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 12:14

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BB05513

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.0000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 12:14

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BB05513

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30 DUP

Location Code: WMWGREAP
Collected: 3/15/21 12:14
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05514

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 10:03		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 10:03		1.015	0.639	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/29/21 10:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/29/21 10:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 10:03		1.015	0.235	mg/L	0.021315	0.406	J
* Sodium, Total	3/24/21 05:57	3/29/21 10:03		1.015	3.87	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 11:57		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 17:36		1.015	0.0462	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 17:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:36		1.015	0.0000824	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 17:36		1.015	0.000568	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:36		1.015	0.000140	mg/L	0.000068	0.000203	J
* Lead, Total	3/18/21 12:41	3/19/21 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 17:36		1.015	0.932	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 17:36		1.015	0.00790	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 17:36		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 13:12		1.015	0.00719	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 14:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	2.36	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	28.0	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30 DUP

Location Code: WMWGREAP
Collected: 3/15/21 12:14
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05514

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	2.36	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:13	3/23/21 11:13		1	4.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:04	3/22/21 15:04		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:13	3/22/21 12:13		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/15/21 12:11	3/15/21 12:11			30.49	uS/cm			FA
pH	3/15/21 12:11	3/15/21 12:11			5.02	SU			FA
Temperature	3/15/21 12:11	3/15/21 12:11			18.20	C			FA
Turbidity	3/15/21 12:11	3/15/21 12:11			1.25	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 12:14

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: BB05514

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05514	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0994	0.0993	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.124	20.0
BB05514	Potassium, Total	mg/L	0.0207	0.367	10.0	11.3	11.1	9.99	8.50 to 11.5	104	70.0 to 130	1.74	20.0
BB05514	Calcium, Total	mg/L	0.00995	0.152	5.00	5.77	5.72	5.22	4.25 to 5.75	103	70.0 to 130	0.909	20.0
BB05514	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.156	20.0
BB05514	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.102	0.0993	0.0991	0.0850 to 0.115	101	70.0 to 130	2.24	20.0
BB05514	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	3.22	20.0
BB05514	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0943	0.0933	0.0969	0.0850 to 0.115	94.3	70.0 to 130	1.11	20.0
BB05514	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0910	0.0919	0.0929	0.0850 to 0.115	91.0	70.0 to 130	1.02	20.0
BB05514	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.331	20.0
BB05514	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.149	0.153	0.104	0.0850 to 0.115	103	70.0 to 130	2.09	20.0
BB05514	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.200	0.201	0.204	0.170 to 0.230	100	70.0 to 130	0.375	20.0
BB05514	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	5.24	5.18	5.13	4.25 to 5.75	100	70.0 to 130	1.11	20.0
BB05514	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0985	0.0976	0.100	0.0850 to 0.115	98.5	70.0 to 130	0.911	20.0
BB05514	Boron, Total	mg/L	0.00209	0.0650	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.833	20.0
BB05514	Iron, Total	mg/L	0.00540	0.0176	0.2	0.208	0.205	0.207	0.170 to 0.230	104	70.0 to 130	1.32	20.0
BB05514	Sodium, Total	mg/L	0.000532	0.0660	5.00	8.89	8.95	5.00	4.25 to 5.75	100	70.0 to 130	0.603	20.0
BB05514	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.101	0.105	0.100	0.0850 to 0.115	101	70.0 to 130	4.68	20.0
BB05514	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.105	0.107	0.107	0.0850 to 0.115	105	70.0 to 130	1.34	20.0
BB05514	Manganese, Total	mg/L	0.000031	0.000147	0.10	0.112	0.114	0.108	0.0850 to 0.115	104	70.0 to 130	2.01	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05514	Mercury, Total by CVAA	mg/L	0.0000464	0.000500	0.004	0.00360	0.00369	0.00361	0.00340 to 0.00460	90.0	70.0 to 130	2.47	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 12:14

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-30 DUP

Laboratory ID Number: BB05514

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-4

Location Code: WMWGREAPFB
Collected: 3/15/21 12:40
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05515

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 10:20		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 10:20		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/24/21 05:57	3/29/21 10:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/29/21 10:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 10:20		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/24/21 05:57	3/29/21 10:20		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 17:57		1.015	0.000347	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 15:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:14	3/23/21 11:14		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:06	3/22/21 15:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:14	3/22/21 12:14		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/15/21 12:40

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BB05515

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05522	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	1.22	20.0
BB05522	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0881	0.0891	0.0929	0.0850 to 0.115	88.1	70.0 to 130	1.11	20.0
BB05522	Mercury, Total by CVAA	mg/L	0.0000462	0.000500	0.004	0.00355	0.00346	0.00349	0.00340 to 0.00460	88.8	70.0 to 130	2.57	20.0
BB05522	Iron, Total	mg/L	0.00540	0.0176	0.2	278	278	0.207	0.170 to 0.230	-6170	70.0 to 130	0.0414	20.0
BB05522	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	45.3	45.0	5.13	4.25 to 5.75	107	70.0 to 130	0.575	20.0
BB05522	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.126	0.130	0.104	0.0850 to 0.115	102	70.0 to 130	3.54	20.0
BB05522	Boron, Total	mg/L	0.00209	0.0650	1.00	1.32	1.32	1.02	0.850 to 1.15	100	70.0 to 130	0.284	20.0
BB05522	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.0997	0.100	0.102	0.0850 to 0.115	99.4	70.0 to 130	0.668	20.0
BB05522	Manganese, Total	mg/L	0.0000031	0.000147	0.10	16.6	17.2	0.108	0.0850 to 0.115	-298	70.0 to 130	3.26	20.0
BB05522	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.127	0.130	0.107	0.0850 to 0.115	103	70.0 to 130	3.08	20.0
BB05522	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.358	0.357	0.0991	0.0850 to 0.115	101	70.0 to 130	0.160	20.0
BB05522	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.253	0.254	0.204	0.170 to 0.230	126	70.0 to 130	0.357	20.0
BB05522	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0928	0.0938	0.0969	0.0850 to 0.115	92.7	70.0 to 130	1.03	20.0
BB05522	Calcium, Total	mg/L	0.00995	0.152	5.00	116	116	5.22	4.25 to 5.75	148	70.0 to 130	0.496	20.0
BB05522	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0965	0.0978	0.100	0.0850 to 0.115	96.5	70.0 to 130	1.34	20.0
BB05522	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.105	0.106	0.100	0.0850 to 0.115	105	70.0 to 130	0.842	20.0
BB05522	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0957	0.0977	0.103	0.0850 to 0.115	94.0	70.0 to 130	2.07	20.0
BB05522	Potassium, Total	mg/L	0.0207	0.367	10.0	14.3	14.3	9.99	8.50 to 11.5	103	70.0 to 130	0.0606	20.0
BB05522	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.0963	0.0968	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.545	20.0
BB05522	Sodium, Total	mg/L	0.000532	0.0660	5.00	69.6	69.4	5.00	4.25 to 5.75	145	70.0 to 130	0.269	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/15/21 12:40

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BB05515

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 3/15/21 13:32
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05516

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	3/24/21 05:57	3/29/21 10:23		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/24/21 05:57	3/29/21 10:23		1.015	0.239	mg/L	0.070035	0.406	J	
* Iron, Total	3/24/21 05:57	3/29/21 10:23		1.015	0.0111	mg/L	0.008120	0.0406	J	
* Lithium, Total	3/24/21 05:57	3/29/21 10:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/24/21 05:57	3/29/21 10:23		1.015	0.339	mg/L	0.021315	0.406	J	
* Sodium, Total	3/24/21 05:57	3/29/21 10:23		1.015	1.11	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:00		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/18/21 12:41	3/19/21 18:01		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	3/18/21 12:41	3/19/21 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	3/18/21 12:41	3/19/21 18:01		1.015	0.0545	mg/L	0.000101	0.000203		
* Beryllium, Total	3/18/21 12:41	3/19/21 18:01		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/18/21 12:41	3/19/21 18:01		1.015	0.000204	mg/L	0.000068	0.000203		
* Chromium, Total	3/18/21 12:41	3/19/21 18:01		1.015	0.000393	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/18/21 12:41	3/19/21 18:01		1.015	0.00145	mg/L	0.000068	0.000203		
* Lead, Total	3/18/21 12:41	3/19/21 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	3/18/21 12:41	3/19/21 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	3/18/21 12:41	3/19/21 18:01		1.015	0.866	mg/L	0.169505	0.5075		
* Manganese, Total	3/18/21 12:41	3/19/21 18:01		1.015	0.0190	mg/L	0.000068	0.000203		
* Selenium, Total	3/18/21 12:41	3/19/21 18:01		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Thallium, Total	3/18/21 12:41	3/19/21 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	3/22/21 12:15	3/23/21 13:14		1.015	0.0194	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 15:13		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	0.64	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638					
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	Not Detected	mg/L		25	U	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 3/15/21 13:32
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05516

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.64	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:15	3/23/21 11:15		1	1.25	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:07	3/22/21 15:07		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:15	3/22/21 12:15		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/15/21 13:29	3/15/21 13:29			17.66	uS/cm			FA
pH	3/15/21 13:29	3/15/21 13:29			4.79	SU			FA
Temperature	3/15/21 13:29	3/15/21 13:29			18.00	C			FA
Turbidity	3/15/21 13:29	3/15/21 13:29			1.14	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 13:32

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BB05516

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05522	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	1.22	20.0
BB05522	Iron, Total	mg/L	0.00540	0.0176	0.2	278	278	0.207	0.170 to 0.230	-6170	70.0 to 130	0.0414	20.0
BB05522	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	45.3	45.0	5.13	4.25 to 5.75	107	70.0 to 130	0.575	20.0
BB05522	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.126	0.130	0.104	0.0850 to 0.115	102	70.0 to 130	3.54	20.0
BB05522	Boron, Total	mg/L	0.00209	0.0650	1.00	1.32	1.32	1.02	0.850 to 1.15	100	70.0 to 130	0.284	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05522	Calcium, Total	mg/L	0.00995	0.152	5.00	116	116	5.22	4.25 to 5.75	148	70.0 to 130	0.496	20.0
BB05522	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0965	0.0978	0.100	0.0850 to 0.115	96.5	70.0 to 130	1.34	20.0
BB05522	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.105	0.106	0.100	0.0850 to 0.115	105	70.0 to 130	0.842	20.0
BB05522	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0957	0.0977	0.103	0.0850 to 0.115	94.0	70.0 to 130	2.07	20.0
BB05522	Potassium, Total	mg/L	0.0207	0.367	10.0	14.3	14.3	9.99	8.50 to 11.5	103	70.0 to 130	0.0606	20.0
BB05522	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.0963	0.0968	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.545	20.0
BB05522	Sodium, Total	mg/L	0.000532	0.0660	5.00	69.6	69.4	5.00	4.25 to 5.75	145	70.0 to 130	0.269	20.0
BB05522	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.127	0.130	0.107	0.0850 to 0.115	103	70.0 to 130	3.08	20.0
BB05522	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.358	0.357	0.0991	0.0850 to 0.115	101	70.0 to 130	0.160	20.0
BB05522	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.253	0.254	0.204	0.170 to 0.230	126	70.0 to 130	0.357	20.0
BB05522	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0928	0.0938	0.0969	0.0850 to 0.115	92.7	70.0 to 130	1.03	20.0
BB05522	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0881	0.0891	0.0929	0.0850 to 0.115	88.1	70.0 to 130	1.11	20.0
BB05522	Mercury, Total by CVAA	mg/L	0.0000462	0.000500	0.004	0.00355	0.00346	0.00349	0.00340 to 0.00460	88.8	70.0 to 130	2.57	20.0
BB05522	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.0997	0.100	0.102	0.0850 to 0.115	99.4	70.0 to 130	0.668	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0
BB05522	Manganese, Total	mg/L	0.000031	0.000147	0.10	16.6	17.2	0.108	0.0850 to 0.115	-298	70.0 to 130	3.26	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 13:32

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BB05516

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 3/15/21 14:22
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05517

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 10:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 10:27		1.015	1.73	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/29/21 10:27		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/29/21 10:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 10:27		1.015	1.71	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 10:27		1.015	1.07	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:04		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 18:05		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 18:05		1.015	0.222	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 18:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 18:05		1.015	0.000536	mg/L	0.000068	0.000203	
* Chromium, Total	3/18/21 12:41	3/19/21 18:05		1.015	0.000995	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 18:05		1.015	0.000452	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 18:05		1.015	1.90	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 18:05		1.015	0.0759	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 18:05		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 12:15	3/23/21 13:17		1.015	0.0728	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 15:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	0.78	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	30.0	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 3/15/21 14:22
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05517

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.78	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:16	3/23/21 11:16		1	1.27	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:08	3/22/21 15:08		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:16	3/22/21 12:16		1	10.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/15/21 14:19	3/15/21 14:19			45.97	uS/cm			FA
pH	3/15/21 14:19	3/15/21 14:19			4.45	SU			FA
Temperature	3/15/21 14:19	3/15/21 14:19			18.26	C			FA
Turbidity	3/15/21 14:19	3/15/21 14:19			0.56	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 14:22

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BB05517

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05522	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	1.22	20.0
BB05522	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0881	0.0891	0.0929	0.0850 to 0.115	88.1	70.0 to 130	1.11	20.0
BB05522	Mercury, Total by CVAA	mg/L	0.0000462	0.000500	0.004	0.00355	0.00346	0.00349	0.00340 to 0.00460	88.8	70.0 to 130	2.57	20.0
BB05522	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.0997	0.100	0.102	0.0850 to 0.115	99.4	70.0 to 130	0.668	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0
BB05522	Manganese, Total	mg/L	0.000031	0.000147	0.10	16.6	17.2	0.108	0.0850 to 0.115	-298	70.0 to 130	3.26	20.0
BB05522	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.126	0.130	0.104	0.0850 to 0.115	102	70.0 to 130	3.54	20.0
BB05522	Boron, Total	mg/L	0.00209	0.0650	1.00	1.32	1.32	1.02	0.850 to 1.15	100	70.0 to 130	0.284	20.0
BB05522	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.127	0.130	0.107	0.0850 to 0.115	103	70.0 to 130	3.08	20.0
BB05522	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.358	0.357	0.0991	0.0850 to 0.115	101	70.0 to 130	0.160	20.0
BB05522	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.253	0.254	0.204	0.170 to 0.230	126	70.0 to 130	0.357	20.0
BB05522	Thallium, Total	mg/L	0.000004	0.000147	0.10	0.0928	0.0938	0.0969	0.0850 to 0.115	92.7	70.0 to 130	1.03	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05522	Calcium, Total	mg/L	0.00995	0.152	5.00	116	116	5.22	4.25 to 5.75	148	70.0 to 130	0.496	20.0
BB05522	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0965	0.0978	0.100	0.0850 to 0.115	96.5	70.0 to 130	1.34	20.0
BB05522	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.105	0.106	0.100	0.0850 to 0.115	105	70.0 to 130	0.842	20.0
BB05522	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0957	0.0977	0.103	0.0850 to 0.115	94.0	70.0 to 130	2.07	20.0
BB05522	Iron, Total	mg/L	0.00540	0.0176	0.2	278	278	0.207	0.170 to 0.230	-6170	70.0 to 130	0.0414	20.0
BB05522	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	45.3	45.0	5.13	4.25 to 5.75	107	70.0 to 130	0.575	20.0
BB05522	Potassium, Total	mg/L	0.0207	0.367	10.0	14.3	14.3	9.99	8.50 to 11.5	103	70.0 to 130	0.0606	20.0
BB05522	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.0963	0.0968	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.545	20.0
BB05522	Sodium, Total	mg/L	0.000532	0.0660	5.00	69.6	69.4	5.00	4.25 to 5.75	145	70.0 to 130	0.269	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 14:22

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BB05517

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 3/15/21 15:07
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05518

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 10:30		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/24/21 05:57	3/29/21 10:30		1.015	0.745	mg/L	0.070035	0.406	
* Iron, Total	3/24/21 05:57	3/29/21 10:30		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/24/21 05:57	3/29/21 10:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/24/21 05:57	3/29/21 10:30		1.015	0.533	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 10:30		1.015	2.64	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:07		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 18:08		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 18:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/18/21 12:41	3/19/21 18:08		1.015	0.0690	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 18:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 18:08		1.015	0.000100	mg/L	0.000068	0.000203	J
* Chromium, Total	3/18/21 12:41	3/19/21 18:08		1.015	0.000541	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 18:08		1.015	0.000139	mg/L	0.000068	0.000203	J
* Lead, Total	3/18/21 12:41	3/19/21 18:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 18:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/18/21 12:41	3/19/21 18:08		1.015	0.849	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/19/21 18:08		1.015	0.0218	mg/L	0.000068	0.000203	
* Selenium, Total	3/18/21 12:41	3/19/21 18:08		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 18:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/22/21 12:15	3/23/21 13:20		1.015	0.0208	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 15:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	Not Detected	mg/L		0.1	U
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	30.7	mg/L		25	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 3/15/21 15:07
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05518

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	Not Detected	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	Not Detected	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/23/21 11:17	3/23/21 11:17		1	2.46	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:09	3/22/21 15:09		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:18	3/22/21 12:18		1	2.50	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/15/21 15:04	3/15/21 15:04			29.28	uS/cm			FA
pH	3/15/21 15:04	3/15/21 15:04			4.73	SU			FA
Temperature	3/15/21 15:04	3/15/21 15:04			18.88	C			FA
Turbidity	3/15/21 15:04	3/15/21 15:04			1.01	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 15:07

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BB05518

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05522	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	1.22	20.0
BB05522	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0881	0.0891	0.0929	0.0850 to 0.115	88.1	70.0 to 130	1.11	20.0
BB05522	Mercury, Total by CVAA	mg/L	0.0000462	0.000500	0.004	0.00355	0.00346	0.00349	0.00340 to 0.00460	88.8	70.0 to 130	2.57	20.0
BB05522	Iron, Total	mg/L	0.00540	0.0176	0.2	278	278	0.207	0.170 to 0.230	-6170	70.0 to 130	0.0414	20.0
BB05522	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	45.3	45.0	5.13	4.25 to 5.75	107	70.0 to 130	0.575	20.0
BB05522	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.126	0.130	0.104	0.0850 to 0.115	102	70.0 to 130	3.54	20.0
BB05522	Boron, Total	mg/L	0.00209	0.0650	1.00	1.32	1.32	1.02	0.850 to 1.15	100	70.0 to 130	0.284	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05522	Calcium, Total	mg/L	0.00995	0.152	5.00	116	116	5.22	4.25 to 5.75	148	70.0 to 130	0.496	20.0
BB05522	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0965	0.0978	0.100	0.0850 to 0.115	96.5	70.0 to 130	1.34	20.0
BB05522	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.105	0.106	0.100	0.0850 to 0.115	105	70.0 to 130	0.842	20.0
BB05522	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0957	0.0977	0.103	0.0850 to 0.115	94.0	70.0 to 130	2.07	20.0
BB05522	Potassium, Total	mg/L	0.0207	0.367	10.0	14.3	14.3	9.99	8.50 to 11.5	103	70.0 to 130	0.0606	20.0
BB05522	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.0963	0.0968	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.545	20.0
BB05522	Sodium, Total	mg/L	0.000532	0.0660	5.00	69.6	69.4	5.00	4.25 to 5.75	145	70.0 to 130	0.269	20.0
BB05522	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.127	0.130	0.107	0.0850 to 0.115	103	70.0 to 130	3.08	20.0
BB05522	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.358	0.357	0.0991	0.0850 to 0.115	101	70.0 to 130	0.160	20.0
BB05522	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.253	0.254	0.204	0.170 to 0.230	126	70.0 to 130	0.357	20.0
BB05522	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0928	0.0938	0.0969	0.0850 to 0.115	92.7	70.0 to 130	1.03	20.0
BB05522	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.0997	0.100	0.102	0.0850 to 0.115	99.4	70.0 to 130	0.668	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0
BB05522	Manganese, Total	mg/L	0.000031	0.000147	0.10	16.6	17.2	0.108	0.0850 to 0.115	-298	70.0 to 130	3.26	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 15:07

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BB05518

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05522	Alkalinity, Total as CaCO ₃	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 3/15/21 16:02
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05519

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	3/24/21 05:57	3/29/21 10:34		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/24/21 05:57	3/29/21 10:34		1.015	4.67	mg/L	0.070035	0.406		
* Iron, Total	3/24/21 05:57	3/29/21 10:34		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	3/24/21 05:57	3/29/21 10:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/24/21 05:57	3/29/21 10:34		1.015	0.560	mg/L	0.021315	0.406		
* Sodium, Total	3/24/21 05:57	3/29/21 10:34		1.015	3.74	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:10		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/18/21 12:41	3/19/21 18:12		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	3/18/21 12:41	3/19/21 18:12		1.015	0.000125	mg/L	0.000068	0.000203	J	
* Barium, Total	3/18/21 12:41	3/19/21 18:12		1.015	0.0351	mg/L	0.000101	0.000203		
* Beryllium, Total	3/18/21 12:41	3/19/21 18:12		1.015	0.000453	mg/L	0.000406	0.001015	J	
* Cadmium, Total	3/18/21 12:41	3/19/21 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/18/21 12:41	3/19/21 18:12		1.015	0.000474	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/18/21 12:41	3/19/21 18:12		1.015	0.000606	mg/L	0.000068	0.000203		
* Lead, Total	3/18/21 12:41	3/19/21 18:12		1.015	0.0000699	mg/L	0.000068	0.000203	J	
* Molybdenum, Total	3/18/21 12:41	3/19/21 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	3/18/21 12:41	3/19/21 18:12		1.015	0.443	mg/L	0.169505	0.5075	J	
* Manganese, Total	3/18/21 12:41	3/19/21 18:12		1.015	0.0442	mg/L	0.000068	0.000203		
* Selenium, Total	3/18/21 12:41	3/19/21 18:12		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Thallium, Total	3/18/21 12:41	3/19/21 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	3/22/21 12:15	3/23/21 13:22		1.015	0.0465	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 15:20		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	9.72	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638					
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	42.7	mg/L		25		

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 3/15/21 16:02
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05519

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	9.72	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/23/21 11:19	3/23/21 11:19		1	2.83	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:10	3/22/21 15:10		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:19	3/22/21 12:19		1	7.66	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/15/21 15:59	3/15/21 15:59			49.24	uS/cm			FA
pH	3/15/21 15:59	3/15/21 15:59			5.32	SU			FA
Temperature	3/15/21 15:59	3/15/21 15:59			18.15	C			FA
Turbidity	3/15/21 15:59	3/15/21 15:59			0.73	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 16:02

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BB05519

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05522	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	1.22	20.0
BB05522	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0881	0.0891	0.0929	0.0850 to 0.115	88.1	70.0 to 130	1.11	20.0
BB05522	Mercury, Total by CVAA	mg/L	0.0000462	0.000500	0.004	0.00355	0.00346	0.00349	0.00340 to 0.00460	88.8	70.0 to 130	2.57	20.0
BB05522	Iron, Total	mg/L	0.00540	0.0176	0.2	278	278	0.207	0.170 to 0.230	-6170	70.0 to 130	0.0414	20.0
BB05522	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	45.3	45.0	5.13	4.25 to 5.75	107	70.0 to 130	0.575	20.0
BB05522	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.126	0.130	0.104	0.0850 to 0.115	102	70.0 to 130	3.54	20.0
BB05522	Boron, Total	mg/L	0.00209	0.0650	1.00	1.32	1.32	1.02	0.850 to 1.15	100	70.0 to 130	0.284	20.0
BB05522	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.0997	0.100	0.102	0.0850 to 0.115	99.4	70.0 to 130	0.668	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0
BB05522	Manganese, Total	mg/L	0.000031	0.000147	0.10	16.6	17.2	0.108	0.0850 to 0.115	-298	70.0 to 130	3.26	20.0
BB05522	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.127	0.130	0.107	0.0850 to 0.115	103	70.0 to 130	3.08	20.0
BB05522	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.358	0.357	0.0991	0.0850 to 0.115	101	70.0 to 130	0.160	20.0
BB05522	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.253	0.254	0.204	0.170 to 0.230	126	70.0 to 130	0.357	20.0
BB05522	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0928	0.0938	0.0969	0.0850 to 0.115	92.7	70.0 to 130	1.03	20.0
BB05522	Potassium, Total	mg/L	0.0207	0.367	10.0	14.3	14.3	9.99	8.50 to 11.5	103	70.0 to 130	0.0606	20.0
BB05522	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.0963	0.0968	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.545	20.0
BB05522	Sodium, Total	mg/L	0.000532	0.0660	5.00	69.6	69.4	5.00	4.25 to 5.75	145	70.0 to 130	0.269	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05522	Calcium, Total	mg/L	0.00995	0.152	5.00	116	116	5.22	4.25 to 5.75	148	70.0 to 130	0.496	20.0
BB05522	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0965	0.0978	0.100	0.0850 to 0.115	96.5	70.0 to 130	1.34	20.0
BB05522	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.105	0.106	0.100	0.0850 to 0.115	105	70.0 to 130	0.842	20.0
BB05522	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0957	0.0977	0.103	0.0850 to 0.115	94.0	70.0 to 130	2.07	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/15/21 16:02

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BB05519

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05519	Chloride	mg/L	0.136	0.500	10.0	13.2	2.85	9.95	9.00 to 11.0	104	80.0 to 120	0.704	20.0
BB05519	Fluoride	mg/L	0.0358	0.0500	2.50	2.34	0.0315	2.49	2.25 to 2.75	93.6	80.0 to 120	0.00	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0
BB05519	Sulfate	mg/L	0.315	0.500	20.0	26.1	7.57	18.9	18.0 to 22.0	92.2	80.0 to 120	1.18	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP
Collected: 3/16/21 10:15
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05520

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	3/24/21 05:57	3/29/21 10:37		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	3/24/21 05:57	3/29/21 10:37		1.015	24.9	mg/L	0.070035	0.406		
* Iron, Total	3/24/21 05:57	3/29/21 10:37		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	3/24/21 05:57	3/29/21 10:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/24/21 05:57	3/29/21 10:37		1.015	4.54	mg/L	0.021315	0.406		
* Sodium, Total	3/24/21 05:57	3/29/21 10:37		1.015	1.86	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Iron, Dissolved	3/23/21 15:09	3/24/21 12:14		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/18/21 12:41	3/19/21 18:15		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	3/18/21 12:41	3/19/21 18:15		1.015	0.000100	mg/L	0.000068	0.000203	J	
* Barium, Total	3/18/21 12:41	3/19/21 18:15		1.015	0.0400	mg/L	0.000101	0.000203		
* Beryllium, Total	3/18/21 12:41	3/19/21 18:15		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/18/21 12:41	3/19/21 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/18/21 12:41	3/19/21 18:15		1.015	0.000912	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/18/21 12:41	3/19/21 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/18/21 12:41	3/19/21 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	3/18/21 12:41	3/19/21 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	3/18/21 12:41	3/19/21 18:15		1.015	1.41	mg/L	0.169505	0.5075		
* Manganese, Total	3/18/21 12:41	3/19/21 18:15		1.015	0.000240	mg/L	0.000068	0.000203		
* Selenium, Total	3/18/21 12:41	3/19/21 18:15		1.015	0.00362	mg/L	0.000507	0.001015		
* Thallium, Total	3/18/21 12:41	3/19/21 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Manganese, Dissolved	3/22/21 12:15	3/23/21 13:25		1.015	0.000253	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638					
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 15:23		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	42.2	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638					
* Solids, Dissolved	3/19/21 12:30	3/23/21 11:40		1	111	mg/L		25		

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP
Collected: 3/16/21 10:15
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05520

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	42.2	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.01	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:30	3/23/21 11:30		1	1.91	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:23	3/22/21 15:23		1	0.0841	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:45	3/22/21 12:45		1	32.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/16/21 10:11	3/16/21 10:11			173.02	uS/cm			FA
pH	3/16/21 10:11	3/16/21 10:11			6.16	SU			FA
Temperature	3/16/21 10:11	3/16/21 10:11			18.91	C			FA
Turbidity	3/16/21 10:11	3/16/21 10:11			0.37	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 10:15

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BB05520

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05522	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	1.22	20.0
BB05522	Potassium, Total	mg/L	0.0207	0.367	10.0	14.3	14.3	9.99	8.50 to 11.5	103	70.0 to 130	0.0606	20.0
BB05522	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.0963	0.0968	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.545	20.0
BB05522	Sodium, Total	mg/L	0.000532	0.0660	5.00	69.6	69.4	5.00	4.25 to 5.75	145	70.0 to 130	0.269	20.0
BB05522	Iron, Total	mg/L	0.00540	0.0176	0.2	278	278	0.207	0.170 to 0.230	-6170	70.0 to 130	0.0414	20.0
BB05522	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	45.3	45.0	5.13	4.25 to 5.75	107	70.0 to 130	0.575	20.0
BB05520	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.703	20.0
BB05522	Calcium, Total	mg/L	0.00995	0.152	5.00	116	116	5.22	4.25 to 5.75	148	70.0 to 130	0.496	20.0
BB05522	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0965	0.0978	0.100	0.0850 to 0.115	96.5	70.0 to 130	1.34	20.0
BB05522	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.105	0.106	0.100	0.0850 to 0.115	105	70.0 to 130	0.842	20.0
BB05522	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0957	0.0977	0.103	0.0850 to 0.115	94.0	70.0 to 130	2.07	20.0
BB05522	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0881	0.0891	0.0929	0.0850 to 0.115	88.1	70.0 to 130	1.11	20.0
BB05522	Mercury, Total by CVAA	mg/L	0.0000462	0.000500	0.004	0.00355	0.00346	0.00349	0.00340 to 0.00460	88.8	70.0 to 130	2.57	20.0
BB05522	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.127	0.130	0.107	0.0850 to 0.115	103	70.0 to 130	3.08	20.0
BB05522	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.358	0.357	0.0991	0.0850 to 0.115	101	70.0 to 130	0.160	20.0
BB05522	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.253	0.254	0.204	0.170 to 0.230	126	70.0 to 130	0.357	20.0
BB05522	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0928	0.0938	0.0969	0.0850 to 0.115	92.7	70.0 to 130	1.03	20.0
BB05522	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.126	0.130	0.104	0.0850 to 0.115	102	70.0 to 130	3.54	20.0
BB05522	Boron, Total	mg/L	0.00209	0.0650	1.00	1.32	1.32	1.02	0.850 to 1.15	100	70.0 to 130	0.284	20.0
BB05522	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.0997	0.100	0.102	0.0850 to 0.115	99.4	70.0 to 130	0.668	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0
BB05522	Manganese, Total	mg/L	0.000031	0.000147	0.10	16.6	17.2	0.108	0.0850 to 0.115	-298	70.0 to 130	3.26	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 10:15

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BB05520

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05522	Chloride	mg/L	-0.0437	0.500	10.0	25.4	16.8	9.99	9.00 to 11.0	88.0	80.0 to 120	1.20	20.0
BB05520	Solids, Dissolved	mg/L	-1.00	25.0			114	52.0	40.0 to 60.0			1.33	5.00
BB05522	Fluoride	mg/L	0.0316	0.0500	2.50	2.73	0.118	2.47	2.25 to 2.75	104	80.0 to 120	8.91	20.0
BB05522	Sulfate	mg/L	-0.0911	0.500	1280	2230	922	18.5	18.0 to 22.0	101	80.0 to 120	1.19	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP
Collected: 3/16/21 11:16
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05521

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/24/21 05:57	3/29/21 10:40		1.015	0.159	mg/L	0.030000	0.1015	
* Calcium, Total	3/24/21 05:57	3/29/21 11:16		20.3	148	mg/L	1.4007	8.12	
* Iron, Total	3/24/21 05:57	3/29/21 11:16		20.3	48.9	mg/L	0.1624	0.812	
* Lithium, Total	3/24/21 05:57	3/29/21 10:40		1.015	0.0107	mg/L	0.007105	0.01999956	J
* Magnesium, Total	3/24/21 05:57	3/29/21 10:40		1.015	23.2	mg/L	0.021315	0.406	
* Sodium, Total	3/24/21 05:57	3/29/21 10:40		1.015	27.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/23/21 15:09	3/24/21 13:04		101.5	66.8	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/18/21 12:41	3/19/21 18:19		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/18/21 12:41	3/19/21 18:19		1.015	0.00685	mg/L	0.000068	0.000203	
* Barium, Total	3/18/21 12:41	3/19/21 18:19		1.015	0.0347	mg/L	0.000101	0.000203	
* Beryllium, Total	3/18/21 12:41	3/19/21 18:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/18/21 12:41	3/19/21 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/18/21 12:41	3/19/21 18:19		1.015	0.000381	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/18/21 12:41	3/19/21 18:19		1.015	0.0225	mg/L	0.000068	0.000203	
* Lead, Total	3/18/21 12:41	3/19/21 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/18/21 12:41	3/19/21 18:19		1.015	0.000373	mg/L	0.000068	0.000203	
* Potassium, Total	3/18/21 12:41	3/19/21 18:19		1.015	2.09	mg/L	0.169505	0.5075	
* Manganese, Total	3/18/21 12:41	3/26/21 11:49		5.075	5.18	mg/L	0.000340	0.001015	
* Selenium, Total	3/18/21 12:41	3/19/21 18:19		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/18/21 12:41	3/19/21 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/22/21 00:15	3/25/21 12:04		5.075	5.05	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 15:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	191	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/22/21 16:40	3/25/21 11:35		1	756	mg/L		50	

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP

Collected: 3/16/21 11:16

Customer ID:

Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05521

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	191	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/23/21 11:32	3/23/21 11:32		1	13.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:24	3/22/21 15:24		1	0.263	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:46	3/22/21 12:46		25	368	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/16/21 11:14	3/16/21 11:14			1015.51	uS/cm			FA
pH	3/16/21 11:14	3/16/21 11:14			6.32	SU			FA
Temperature	3/16/21 11:14	3/16/21 11:14			19.00	C			FA
Turbidity	3/16/21 11:14	3/16/21 11:14			1.63	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 11:16

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BB05521

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB05522	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	1.22	20.0
BB05522	Iron, Total	mg/L	0.00540	0.0176	0.2	278	278	0.207	0.170 to 0.230	-6170	70.0 to 130	0.0414	20.0
BB05522	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	45.3	45.0	5.13	4.25 to 5.75	107	70.0 to 130	0.575	20.0
BB05522	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0881	0.0891	0.0929	0.0850 to 0.115	88.1	70.0 to 130	1.11	20.0
BB05522	Mercury, Total by CVAA	mg/L	0.0000462	0.000500	0.004	0.00355	0.00346	0.00349	0.00340 to 0.00460	88.8	70.0 to 130	2.57	20.0
BB05522	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.126	0.130	0.104	0.0850 to 0.115	102	70.0 to 130	3.54	20.0
BB05522	Boron, Total	mg/L	0.00209	0.0650	1.00	1.32	1.32	1.02	0.850 to 1.15	100	70.0 to 130	0.284	20.0
BB05522	Calcium, Total	mg/L	0.00995	0.152	5.00	116	116	5.22	4.25 to 5.75	148	70.0 to 130	0.496	20.0
BB05522	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0965	0.0978	0.100	0.0850 to 0.115	96.5	70.0 to 130	1.34	20.0
BB05522	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.105	0.106	0.100	0.0850 to 0.115	105	70.0 to 130	0.842	20.0
BB05522	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0957	0.0977	0.103	0.0850 to 0.115	94.0	70.0 to 130	2.07	20.0
BB05522	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.127	0.130	0.107	0.0850 to 0.115	103	70.0 to 130	3.08	20.0
BB05522	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.358	0.357	0.0991	0.0850 to 0.115	101	70.0 to 130	0.160	20.0
BB05522	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.253	0.254	0.204	0.170 to 0.230	126	70.0 to 130	0.357	20.0
BB05522	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0928	0.0938	0.0969	0.0850 to 0.115	92.7	70.0 to 130	1.03	20.0
BB05522	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.0997	0.100	0.102	0.0850 to 0.115	99.4	70.0 to 130	0.668	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0
BB05522	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	16.5	16.6	0.106	0.0850 to 0.115	124	70.0 to 130	0.166	20.0
BB05522	Manganese, Total	mg/L	0.0000031	0.000147	0.10	16.6	17.2	0.108	0.0850 to 0.115	-298	70.0 to 130	3.26	20.0
BB05522	Potassium, Total	mg/L	0.0207	0.367	10.0	14.3	14.3	9.99	8.50 to 11.5	103	70.0 to 130	0.0606	20.0
BB05522	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.0963	0.0968	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.545	20.0
BB05522	Sodium, Total	mg/L	0.000532	0.0660	5.00	69.6	69.4	5.00	4.25 to 5.75	145	70.0 to 130	0.269	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 11:16

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BB05521

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB05521	Solids, Dissolved	mg/L	-1.00	25.0			766	49.0	40.0 to 60.0			0.657	5.00
BB05522	Chloride	mg/L	-0.0437	0.500	10.0	25.4	16.8	9.99	9.00 to 11.0	88.0	80.0 to 120	1.20	20.0
BB05522	Fluoride	mg/L	0.0316	0.0500	2.50	2.73	0.118	2.47	2.25 to 2.75	104	80.0 to 120	8.91	20.0
BB05522	Sulfate	mg/L	-0.0911	0.500	1280	2230	922	18.5	18.0 to 22.0	101	80.0 to 120	1.19	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 3/16/21 12:56
Customer ID:
Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05522

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	3/24/21 05:57	3/29/21 10:44		1.015	0.313	mg/L	0.030000	0.1015		
* Calcium, Total	3/24/21 05:57	3/29/21 11:19		10.15	109	mg/L	0.70035	4.06	RA	
* Iron, Total	3/24/21 05:57	3/29/21 11:29		101.5	290	mg/L	0.8120	4.06	RA	
* Lithium, Total	3/24/21 05:57	3/29/21 10:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	3/24/21 05:57	3/29/21 10:44		1.015	39.9	mg/L	0.021315	0.406		
* Sodium, Total	3/24/21 05:57	3/29/21 11:19		10.15	62.3	mg/L	0.3045	4.06	RA	
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	3/23/21 15:09	3/24/21 13:07		101.5	282	mg/L	0.8120	4.06	RA	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/18/21 12:41	3/19/21 18:23		1.015	Not Detected	mg/L	0.000507	0.001015	U	
* Arsenic, Total	3/18/21 12:41	3/19/21 18:23		1.015	0.0238	mg/L	0.000068	0.000203		
* Barium, Total	3/18/21 12:41	3/19/21 18:23		1.015	0.0240	mg/L	0.000101	0.000203		
* Beryllium, Total	3/18/21 12:41	3/19/21 18:23		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/18/21 12:41	3/19/21 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/18/21 12:41	3/19/21 18:23		1.015	0.000341	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/18/21 12:41	3/19/21 18:23		1.015	0.257	mg/L	0.000068	0.000203		
* Lead, Total	3/18/21 12:41	3/19/21 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	3/18/21 12:41	3/19/21 18:23		1.015	0.000117	mg/L	0.000068	0.000203	J	
* Potassium, Total	3/18/21 12:41	3/19/21 18:23		1.015	3.95	mg/L	0.169505	0.5075		
* Manganese, Total	3/18/21 12:41	3/26/21 11:52		92.365	16.9	mg/L	0.006188	0.018473	RA	
* Selenium, Total	3/18/21 12:41	3/19/21 18:23		1.015	0.00163	mg/L	0.000507	0.001015		
* Thallium, Total	3/18/21 12:41	3/19/21 18:23		1.015	0.000107	mg/L	0.000068	0.000203	J	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	3/22/21 00:15	3/25/21 12:07		92.365	16.4	mg/L	0.006188	0.018473	RA	
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	3/23/21 10:05	3/23/21 15:27		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: JAG								
Alkalinity, Total as CaCO3	3/25/21 09:55	3/25/21 10:35		1	48.4	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	3/22/21 16:40	3/25/21 11:35		1	1620	mg/L		100		

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP

Collected: 3/16/21 12:56

Customer ID:

Submittal Date: 3/17/21 11:09

Laboratory ID Number: BB05522

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	48.4	mg/L			
Carbonate Alkalinity, (calc.)	3/25/21 09:55	3/25/21 10:35		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/23/21 11:33	3/23/21 11:33		1	16.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/22/21 15:38	3/22/21 15:38		1	0.129	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/22/21 12:48	3/22/21 12:48		64	933	mg/L	32.00	64	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/16/21 12:53	3/16/21 12:53			1665.83	uS/cm			FA
pH	3/16/21 12:53	3/16/21 12:53			5.67	SU			FA
Temperature	3/16/21 12:53	3/16/21 12:53			19.21	C			FA
Turbidity	3/16/21 12:53	3/16/21 12:53			1.33	NTU			FA

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

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 12:56

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BB05522

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05522	Cadmium, Total	mg/L	-0.0000084	0.000147	0.10	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	1.22	20.0
BB05522	Iron, Total	mg/L	0.00540	0.0176	0.2	278	278	0.207	0.170 to 0.230	-6170	70.0 to 130	0.0414	20.0
BB05522	Magnesium, Total	mg/L	-0.000392	0.0462	5.00	45.3	45.0	5.13	4.25 to 5.75	107	70.0 to 130	0.575	20.0
BB05522	Potassium, Total	mg/L	0.0207	0.367	10.0	14.3	14.3	9.99	8.50 to 11.5	103	70.0 to 130	0.0606	20.0
BB05522	Molybdenum, Total	mg/L	0.00000	0.000147	0.10	0.0963	0.0968	0.101	0.0850 to 0.115	96.2	70.0 to 130	0.545	20.0
BB05522	Sodium, Total	mg/L	0.000532	0.0660	5.00	69.6	69.4	5.00	4.25 to 5.75	145	70.0 to 130	0.269	20.0
BB05522	Barium, Total	mg/L	-0.0000118	0.000200	0.10	0.126	0.130	0.104	0.0850 to 0.115	102	70.0 to 130	3.54	20.0
BB05522	Boron, Total	mg/L	0.00209	0.0650	1.00	1.32	1.32	1.02	0.850 to 1.15	100	70.0 to 130	0.284	20.0
BB05522	Calcium, Total	mg/L	0.00995	0.152	5.00	116	116	5.22	4.25 to 5.75	148	70.0 to 130	0.496	20.0
BB05522	Lead, Total	mg/L	0.0000023	0.000147	0.10	0.0965	0.0978	0.100	0.0850 to 0.115	96.5	70.0 to 130	1.34	20.0
BB05522	Antimony, Total	mg/L	0.0000894	0.00100	0.10	0.105	0.106	0.100	0.0850 to 0.115	105	70.0 to 130	0.842	20.0
BB05522	Selenium, Total	mg/L	0.0000923	0.00100	0.10	0.0957	0.0977	0.103	0.0850 to 0.115	94.0	70.0 to 130	2.07	20.0
BB05522	Beryllium, Total	mg/L	0.0000139	0.000880	0.10	0.0881	0.0891	0.0929	0.0850 to 0.115	88.1	70.0 to 130	1.11	20.0
BB05522	Mercury, Total by CVAA	mg/L	0.0000462	0.000500	0.004	0.00355	0.00346	0.00349	0.00340 to 0.00460	88.8	70.0 to 130	2.57	20.0
BB05522	Arsenic, Total	mg/L	-0.0000391	0.000147	0.10	0.127	0.130	0.107	0.0850 to 0.115	103	70.0 to 130	3.08	20.0
BB05522	Cobalt, Total	mg/L	0.0000006	0.000147	0.10	0.358	0.357	0.0991	0.0850 to 0.115	101	70.0 to 130	0.160	20.0
BB05522	Lithium, Total	mg/L	0.0000262	0.0154	0.20	0.253	0.254	0.204	0.170 to 0.230	126	70.0 to 130	0.357	20.0
BB05522	Thallium, Total	mg/L	0.0000004	0.000147	0.10	0.0928	0.0938	0.0969	0.0850 to 0.115	92.7	70.0 to 130	1.03	20.0
BB05522	Chromium, Total	mg/L	-0.0000084	0.000440	0.10	0.0997	0.100	0.102	0.0850 to 0.115	99.4	70.0 to 130	0.668	20.0
BB05522	Iron, Dissolved	mg/L	0.000139	0.0176	0.2	281	281	0.206	0.170 to 0.230	-500	70.0 to 130	0.00	20.0
BB05522	Manganese, Dissolved	mg/L	0.0000702	0.000147	0.10	16.5	16.6	0.106	0.0850 to 0.115	124	70.0 to 130	0.166	20.0
BB05522	Manganese, Total	mg/L	0.000031	0.000147	0.10	16.6	17.2	0.108	0.0850 to 0.115	-298	70.0 to 130	3.26	20.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/16/21 12:56

Customer ID:

Delivery Date: 3/17/21 11:09

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BB05522

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05521	Solids, Dissolved	mg/L	-1.00	25.0			766	49.0	40.0 to 60.0			0.657	5.00
BB05522	Chloride	mg/L	-0.0437	0.500	10.0	25.4	16.8	9.99	9.00 to 11.0	88.0	80.0 to 120	1.20	20.0
BB05522	Fluoride	mg/L	0.0316	0.0500	2.50	2.73	0.118	2.47	2.25 to 2.75	104	80.0 to 120	8.91	20.0
BB05522	Sulfate	mg/L	-0.0911	0.500	1280	2230	922	18.5	18.0 to 22.0	101	80.0 to 120	1.19	20.0
BB05522	Alkalinity, Total as CaCO3	mg/L					51.3	53.1	45.0 to 55.0			5.82	10.0

Comments: The client submitted filtered samples or dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/21/21

Definitions

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.
J	Reported value is an estimate because concentration is less than reporting 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 03/10/2021 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles	1 Metals	500 mL	3 Hg	250 mL	5 Anions	250 mL	7 N/A	N/A
	2 Dissolved Meta	500 mL	4 TDS	500 mL	6 Alkalinity	250 mL	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6	03/09/2021	09:16	6	Groundwater		BB05046
MW-7	03/09/2021	10:15	6	Groundwater		BB05047
MW-7DUP	03/09/2021	10:15	6	Sample Duplicate		BB05048
MW-8	03/09/2021	11:05	6	Groundwater		BB05049
MW-9	03/09/2021	12:33	6	Groundwater		BB05050
MW-14	03/09/2021	13:40	6	Groundwater		BB05051

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Dustin Brooks</i>	03/09/2021 15:07
<i>Greg Dyer</i>	<i>Greg Dyer</i>	03/10/2021 10:19

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp
Sample Event	1311	Thermometer ID
		pH Strip ID

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA **03/10/2021 11:00**

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	TJ Daugherty		Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36H	03/09/2021	09:15	6	Groundwater		BB05041
MW-18	03/09/2021	10:23	6	Groundwater		BB05042
MW-17	03/09/2021	11:25	6	Groundwater		BB05043
MW-16	03/09/2021	12:40	6	Groundwater		BB05044
MW-39H	03/09/2021	13:45	6	Groundwater		BB05045

Relinquished By	Received By	Date/Time
		03/09/2021 15:29
		03/10/2021 10:27

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-2009-2-1	
Sample Event	1311	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-38H	03/10/2021	09:15	6	Groundwater		BB05184
MW-15	03/10/2021	10:35	6	Groundwater		BB05185
MW-40H	03/10/2021	11:25	6	Groundwater		BB05186
MW-40H Dup	03/10/2021	11:25	6	Sample Duplicate		BB05187
MW-24	03/10/2021	12:32	6	Groundwater		BB05188
MW-23	03/10/2021	13:25	6	Groundwater		BB05189
PZ-4	03/10/2021	14:45	6	Groundwater		BB05190
FB-2	03/10/2021	15:05	4	Field Blank		BB05191

Relinquished By	Received By	Date/Time
<i>JAD</i>	<i>Laura M. Dyer</i>	03/11/2021 09:37

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-2009-2-1	
Sample Event	1311	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Correcting time for MW-32 to 14:18 per bottles and field book. LBM 3/24/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	03/15/2021	11:08	6	Groundwater		BB05500
MW-13	03/15/2021	12:02	6	Groundwater		BB05501
MW-13 dup	03/15/2021	12:02	6	Sample Duplicate		BB05502
MW-31	03/15/2021	13:25	6	Groundwater		BB05503
FB-5	03/15/2021	14:02	4	Field Blank		BB05504
MW-32	03/15/2021	14:18	6	Groundwater		BB05505
MW-33	03/15/2021	15:16	6	Groundwater		BB05506
MW-34HA	03/15/2021	16:15	6	Groundwater		BB05507
MW-5	03/16/2021	10:24	6	Groundwater		BB05508
MW-3	03/16/2021	11:23	6	Groundwater		BB05509
MW-2	03/16/2021	12:21	6	Groundwater		BB05510
EB-1	03/16/2021	12:50	4	Equipment Blank		BB05511

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Jason Arledge</i>	03/17/2021 10:16

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1311	
Cooler Temp	1.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 03/17/2021 10:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer	
Site Representative	Jason Arledge	Requested By	Greg Dyer	
Collector	Anthony Goggins	Location	Greene Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-41H	03/15/2021	10:54	6	Groundwater		BB05512
MW-30	03/15/2021	12:14	6	Groundwater		BB05513
MW-30DUP	03/15/2021	12:14	6	Sample Duplicate		BB05514
FB-4	03/15/2021	12:40	4	Field Blank		BB05515
MW-29	03/15/2021	13:32	6	Groundwater		BB05516
MW-28	03/15/2021	14:22	6	Groundwater		BB05517
MW-27	03/15/2021	15:07	6	Groundwater		BB05518
MW-26	03/15/2021	16:02	6	Groundwater		BB05519
MW-35H	03/16/2021	10:15	6	Groundwater		BB05520
MW-37H	03/16/2021	11:16	6	Groundwater		BB05521
MW-1	03/16/2021	12:56	6	Groundwater		BB05522

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	03/17/2021 10:18

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23343-4-2
Sample Event	1311

All metals and radiological bottles have pH < 2

Cooler Temp	0.3 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

Lab ETA 03/10/2021 11:00

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	TJ Daugherty		Greene Ash Pond

Bottles	1	2	3	4	5	6	7	8
Radium	1 L	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Comments: Rad MS/MSD collected @ MW-18

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36H	03/09/2021	09:15	1	Groundwater		BB05052
MW-18	03/09/2021	10:23	3	Groundwater		BB05053
MW-17	03/09/2021	11:25	1	Groundwater		BB05054
MW-16	03/09/2021	12:40	1	Groundwater		BB05055
MW-39H	03/09/2021	13:45	1	Groundwater		BB05056

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	03/09/2021 15:29
<i>[Signature]</i>	<i>[Signature]</i>	03/10/2021 10:28

SmarTroll ID	7586-41443-5-2
Turbidity ID	3901-2009-2-1
Sample Event	1311

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA 03/11/2021 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-25	03/10/2021	09:35	1	Groundwater		BB05192
MW-44H	03/10/2021	10:44	1	Groundwater		BB05193
FB-3	03/10/2021	11:15	1	Field Blank		BB05194
MW-57H	03/10/2021	11:40	1	Groundwater		BB05195
MW-54H	03/10/2021	12:30	1	Groundwater		BB05196
MW-53H	03/10/2021	13:22	1	Groundwater		BB05197

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Jason Arledge</i>	03/11/2021 09:39

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp
Sample Event	1311	Thermometer ID
		pH Strip ID
		8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **03/11/2021 11:00**

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene 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: Time corrected to 12:32 for MW-24. LBM 3/11/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-38H	03/10/2021	09:15	1	Groundwater		BB05208
MW-15	03/10/2021	10:35	1	Groundwater		BB05209
MW-40H	03/10/2021	11:25	1	Groundwater		BB05210
MW-40H Dup	03/10/2021	11:25	1	Sample Duplicate		BB05211
MW-24	03/10/2021	12:32	1	Groundwater		BB05212
MW-23	03/10/2021	13:25	1	Groundwater		BB05213
PZ-4	03/10/2021	14:45	1	Groundwater		BB05214
FB-2	03/10/2021	15:05	1	Field Blank		BB05215

Relinquished By	Received By	Date/Time
		03/11/2021 09:38

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-2009-2-1	
Sample Event	1311	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene 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-42H

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-43H	03/09/2021	12:38	1	Groundwater		BB05198
FB-1	03/09/2021	13:05	1	Field Blank		BB05199
MW-42H	03/09/2021	13:50	3	Groundwater		BB05200
MW49H	03/10/2021	09:20	1	Groundwater		BB05201
MW-49H dup	03/10/2021	09:20	1	Sample Duplicate		BB05202
MW-48H	03/10/2021	10:25	1	Groundwater		BB05203
MW-12	03/10/2021	11:22	1	Groundwater		BB05204
MW-21	03/10/2021	12:13	1	Groundwater		BB05205
MW-11	03/10/2021	13:08	1	Groundwater		BB05206
MW-45H	03/10/2021	14:33	1	Groundwater		BB05207

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura Wiley</i>	03/11/2021 09:38

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1311	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	Dallas Gentry		Greene 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: Correcting time for MW-32 to 14:18 per bottles and field book. LBM 3/24/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-10	03/15/2021	11:08	1	Groundwater		BB05523
MW-13	03/15/2021	12:02	1	Groundwater		BB05524
MW-13 dup	03/15/2021	12:02	1	Sample Duplicate		BB05525
MW-31	03/15/2021	13:25	1	Groundwater		BB05526
FB-5	03/15/2021	14:02	1	Field Blank		BB05527
MW-32	03/15/2021	14:18	1	Groundwater		BB05528
MW-33	03/15/2021	15:16	1	Groundwater		BB05529
MW-34HA	03/15/2021	16:15	1	Groundwater		BB05530
MW-5	03/16/2021	10:24	1	Groundwater		BB05531
MW-3	03/16/2021	11:23	1	Groundwater		BB05532
MW-2	03/16/2021	12:21	1	Groundwater		BB05533
EB-1	03/16/2021	12:50	1	Equipment Blank		BB05534

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura Wiley</i>	03/17/2021 10:17

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1311		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA 03/17/2021 10:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-41H	03/15/2021	10:54	1	Groundwater		BB05535
MW-30	03/15/2021	12:14	1	Groundwater		BB05536
MW-30DUP	03/15/2021	12:14	1	Sample Duplicate		BB05537
FB-4	03/15/2021	12:40	1	Field Blank		BB05538
MW-29	03/15/2021	13:32	1	Groundwater		BB05539
MW-28	03/15/2021	14:22	1	Groundwater		BB05540
MW-27	03/15/2021	15:07	1	Groundwater		BB05541
MW-26	03/15/2021	16:02	1	Groundwater		BB05542
MW-35H	03/16/2021	10:15	1	Groundwater		BB05543
MW-37H	03/16/2021	11:16	1	Groundwater		BB05544
MW-1	03/16/2021	12:56	1	Groundwater		BB05545

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Laura M. Dyer</i>	03/17/2021 10:19

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	Cooler Temp	N/A
Sample Event	1311	Thermometer ID	N/A
		pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL

April 21, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

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 #: 9526
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: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92529288001	BB05052 MW-36H	Water	03/09/21 09:15	03/23/21 10:00
92529288002	BB05053 MW-18	Water	03/09/21 10:23	03/23/21 10:00
92529288003	BB05053 MW-18 MS	Water	03/09/21 10:23	03/23/21 10:00
92529288004	BB05053 MW-18 MSD	Water	03/09/21 10:23	03/23/21 10:00
92529288005	BB05054 MW-17	Water	03/09/21 11:25	03/23/21 10:00
92529288006	BB05055 MW-16	Water	03/09/21 12:40	03/23/21 10:00
92529288007	BB05056 MW-39H	Water	03/09/21 13:45	03/23/21 10:00
92529288008	BB05057 MW-6	Water	03/09/21 09:16	03/23/21 10:00
92529288009	BB05058 MW-7	Water	03/09/21 10:15	03/23/21 10:00
92529288010	BB05059 MW-7 DUP	Water	03/09/21 10:15	03/23/21 10:00
92529288011	BB05060 MW-8	Water	03/09/21 11:05	03/23/21 10:00
92529288012	BB05060 MW-8 MS	Water	03/09/21 11:05	03/23/21 10:00
92529288013	BB05060 MW-8 MSD	Water	03/09/21 11:05	03/23/21 10:00
92529288014	BB05061 MW-9	Water	03/09/21 12:33	03/23/21 10:00
92529288015	BB05062 MW-14	Water	03/09/21 13:40	03/23/21 10:00
92529288016	BB05192 MW-25	Water	03/10/21 09:35	03/23/21 10:00
92529288017	BB05193 MW-44H	Water	03/10/21 10:44	03/23/21 10:00
92529288018	BB05194 FB-3	Water	03/10/21 11:15	03/23/21 10:00
92529288019	BB05195 MW-57H	Water	03/10/21 11:40	03/23/21 10:00
92529288020	BB05196 MW-54H	Water	03/10/21 12:30	03/23/21 10:00
92529288021	BB05197 MW-53H	Water	03/10/21 13:22	03/23/21 10:00
92529288022	BB05198 MW-43H	Water	03/09/21 12:38	03/23/21 10:00
92529288023	BB05199 FB-1	Water	03/09/21 13:05	03/23/21 10:00
92529288024	BB05200 MW-42H	Water	03/09/21 13:50	03/23/21 10:00
92529288025	BB05200 MW-42H MS	Water	03/09/21 13:50	03/23/21 10:00
92529288026	BB05200 MW-42H MSD	Water	03/09/21 13:50	03/23/21 10:00
92529288027	BB05201 MW-49H	Water	03/10/21 09:20	03/23/21 10:00
92529288028	BB05202 MW-49H DUP	Water	03/10/21 09:20	03/23/21 10:00
92529288029	BB05203 MW-48H	Water	03/10/21 10:25	03/23/21 10:00
92529288030	BB05204 MW-12	Water	03/10/21 11:22	03/23/21 10:00
92529288031	BB05205 MW-21	Water	03/10/21 12:13	03/23/21 10:00
92529288032	BB05206 MW-11	Water	03/10/21 13:08	03/23/21 10:00
92529288033	BB05207 MW-45H	Water	03/10/21 14:33	03/23/21 10:00
92529288034	BB05208 MW-38H	Water	03/10/21 09:15	03/23/21 10:00
92529288035	BB05209 MW-15	Water	03/10/21 10:35	03/23/21 10:00
92529288036	BB05210 MW-40H	Water	03/10/21 11:25	03/23/21 10:00
92529288037	BB05211 MW-40H DUP	Water	03/10/21 11:25	03/23/21 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92529288038	BB05212 MW-24	Water	03/10/21 12:32	03/23/21 10:00
92529288039	BB05213 MW-23	Water	03/10/21 13:25	03/23/21 10:00
92529288040	BB05214 PZ-4	Water	03/10/21 14:45	03/23/21 10:00
92529288041	BB05215 FB-2	Water	03/10/21 15:05	03/23/21 10:00
92529288042	BB05523 MW-10	Water	03/15/21 11:08	03/23/21 10:00
92529288043	BB05524 MW-13	Water	03/15/21 12:02	03/23/21 10:00
92529288044	BB05525 MW-13 DUP	Water	03/15/21 12:02	03/23/21 10:00
92529288045	BB05526 MW-31	Water	03/15/21 13:25	03/23/21 10:00
92529288046	BB05527 FB-5	Water	03/15/21 14:02	03/23/21 10:00
92529288047	BB05528 MW-32	Water	03/15/21 14:18	03/23/21 10:00
92529288048	BB05529 MW-33	Water	03/15/21 15:16	03/23/21 10:00
92529288049	BB05530 MW-34HA	Water	03/15/21 16:15	03/23/21 10:00
92529288050	BB05531 MW-5	Water	03/16/21 10:24	03/23/21 10:00
92529288051	BB05532 MW-3	Water	03/16/21 11:23	03/23/21 10:00
92529288052	BB05533 MW-2	Water	03/16/21 12:21	03/23/21 10:00
92529288053	BB05534 EB-1	Water	03/16/21 12:50	03/23/21 10:00
92529288054	BB05535 MW-41H	Water	03/15/21 10:54	03/23/21 10:00
92529288055	BB05536 MW-30	Water	03/15/21 12:14	03/23/21 10:00
92529288056	BB05537 MW-30 DUP	Water	03/15/21 12:14	03/23/21 10:00
92529288057	BB05538 FB-4	Water	03/15/21 12:40	03/23/21 10:00
92529288058	BB05539 MW-29	Water	03/15/21 13:32	03/23/21 10:00
92529288059	BB05540 MW-28	Water	03/15/21 14:22	03/23/21 10:00
92529288060	BB05541 MW-27	Water	03/15/21 15:07	03/23/21 10:00
92529288061	BB05542 MW-26	Water	03/15/21 16:02	03/23/21 10:00
92529288062	BB05543 MW-35H	Water	03/16/21 10:15	03/23/21 10:00
92529288063	BB05544 MW-37H	Water	03/16/21 11:16	03/23/21 10:00
92529288064	BB05545 MW-1	Water	03/16/21 12:56	03/23/21 10:00

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529288001	BB05052 MW-36H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288002	BB05053 MW-18	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288003	BB05053 MW-18 MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288004	BB05053 MW-18 MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288005	BB05054 MW-17	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288006	BB05055 MW-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288007	BB05056 MW-39H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288008	BB05057 MW-6	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288009	BB05058 MW-7	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288010	BB05059 MW-7 DUP	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288011	BB05060 MW-8	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288012	BB05060 MW-8 MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288013	BB05060 MW-8 MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288014	BB05061 MW-9	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529288015	BB05062 MW-14	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288016	BB05192 MW-25	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288017	BB05193 MW-44H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288018	BB05194 FB-3	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288019	BB05195 MW-57H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288020	BB05196 MW-54H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288021	BB05197 MW-53H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288022	BB05198 MW-43H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288023	BB05199 FB-1	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288024	BB05200 MW-42H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288025	BB05200 MW-42H MS	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288026	BB05200 MW-42H MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288027	BB05201 MW-49H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529288028	BB05202 MW-49H DUP	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288029	BB05203 MW-48H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288030	BB05204 MW-12	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288031	BB05205 MW-21	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288032	BB05206 MW-11	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288033	BB05207 MW-45H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288034	BB05208 MW-38H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288035	BB05209 MW-15	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288036	BB05210 MW-40H	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288037	BB05211 MW-40H DUP	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288038	BB05212 MW-24	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92529288039	BB05213 MW-23	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529288040	BB05214 PZ-4	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288041	BB05215 FB-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288042	BB05523 MW-10	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288043	BB05524 MW-13	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288044	BB05525 MW-13 DUP	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288045	BB05526 MW-31	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288046	BB05527 FB-5	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288047	BB05528 MW-32	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288048	BB05529 MW-33	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288049	BB05530 MW-34HA	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288050	BB05531 MW-5	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288051	BB05532 MW-3	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92529288052	BB05533 MW-2	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92529288053	BB05534 EB-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288054	BB05535 MW-41H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288055	BB05536 MW-30	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288056	BB05537 MW-30 DUP	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288057	BB05538 FB-4	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288058	BB05539 MW-29	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288059	BB05540 MW-28	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288060	BB05541 MW-27	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288061	BB05542 MW-26	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288062	BB05543 MW-35H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288063	BB05544 MW-37H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92529288064	BB05545 MW-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: April 21, 2021

General Information:

64 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: April 21, 2021

General Information:

64 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: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: April 21, 2021

General Information:

58 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: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05052 MW-36H **Lab ID: 92529288001** Collected: 03/09/21 09:15 Received: 03/23/21 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	0.0723U ± 0.157 (0.371) C:99% T:NA	pCi/L	04/20/21 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.224U ± 0.411 (0.901) C:63% T:88%	pCi/L	04/14/21 12:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.296U ± 0.568 (1.27)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05053 MW-18 **Lab ID: 92529288002** Collected: 03/09/21 10:23 Received: 03/23/21 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	0.473 ± 0.269 (0.379) C:96% T:NA	pCi/L	04/20/21 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.636U ± 0.485 (0.959) C:63% T:88%	pCi/L	04/14/21 12:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11U ± 0.754 (1.34)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05053 MW-18 MS **Lab ID: 92529288003** Collected: 03/09/21 10:23 Received: 03/23/21 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	103.53 %REC ± NA (NA) C:NA T:NA	pCi/L	04/20/21 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	132.87 %REC +/- NA (NA) C:NA T:NA	pCi/L	04/14/21 12:14	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05053 MW-18 MSD **Lab ID: 92529288004** Collected: 03/09/21 10:23 Received: 03/23/21 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	109.05 %REC 5.20RPD ± NA (NA) C:NA T:NA	pCi/L	04/20/21 07:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	107.99 %REC 20.66 RPD +/- NA (NA) C:NA T:NA	pCi/L	04/14/21 12:16	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05054 MW-17 **Lab ID: 92529288005** Collected: 03/09/21 11:25 Received: 03/23/21 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	0.943 ± 0.354 (0.338) C:95% T:NA	pCi/L	04/20/21 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.33 ± 0.587 (0.975) C:72% T:68%	pCi/L	04/14/21 12:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.27 ± 0.941 (1.31)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05055 MW-16 **Lab ID: 92529288006** Collected: 03/09/21 12:40 Received: 03/23/21 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	0.630 ± 0.334 (0.490) C:90% T:NA	pCi/L	04/20/21 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.567U ± 0.470 (0.939) C:66% T:78%	pCi/L	04/14/21 12:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.20U ± 0.804 (1.43)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05056 MW-39H **Lab ID: 92529288007** Collected: 03/09/21 13:45 Received: 03/23/21 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	0.714 ± 0.335 (0.435) C:95% T:NA	pCi/L	04/20/21 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.902U ± 0.528 (0.975) C:64% T:78%	pCi/L	04/14/21 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.62 ± 0.863 (1.41)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05057 MW-6 **Lab ID: 92529288008** Collected: 03/09/21 09:16 Received: 03/23/21 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	0.212U ± 0.204 (0.379) C:94% T:NA	pCi/L	04/20/21 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.910U ± 0.534 (0.969) C:67% T:68%	pCi/L	04/14/21 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.12U ± 0.738 (1.35)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05058 MW-7 **Lab ID: 92529288009** Collected: 03/09/21 10:15 Received: 03/23/21 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	0.273U ± 0.212 (0.358) C:93% T:NA	pCi/L	04/20/21 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.272U ± 0.457 (0.984) C:62% T:87%	pCi/L	04/14/21 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.545U ± 0.669 (1.34)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05059 MW-7 DUP **Lab ID: 92529288010** Collected: 03/09/21 10:15 Received: 03/23/21 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	0.0888U ± 0.185 (0.432) C:93% T:NA	pCi/L	04/20/21 06:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.277U ± 0.401 (0.864) C:62% T:97%	pCi/L	04/14/21 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.366U ± 0.586 (1.30)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05060 MW-8 **Lab ID: 92529288011** Collected: 03/09/21 11:05 Received: 03/23/21 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	0.471 ± 0.292 (0.452) C:92% T:NA	pCi/L	04/20/21 06:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.13 ± 0.567 (0.989) C:74% T:72%	pCi/L	04/14/21 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.60 ± 0.859 (1.44)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05060 MW-8 MS **Lab ID: 92529288012** Collected: 03/09/21 11:05 Received: 03/23/21 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	110.97 %REC ± NA (NA) C:NA T:NA	pCi/L	04/20/21 06:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	74.78 %REC +/- NA (NA) C:NA T:NA	pCi/L	04/14/21 12:15	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05060 MW-8 MSD **Lab ID: 92529288013** Collected: 03/09/21 11:05 Received: 03/23/21 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	106.85 %REC 3.78RPD ± NA (NA) C:NA T:NA	pCi/L	04/20/21 06:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	94.78 %REC 23.59 RPD +/- NA (NA) C:NA T:NA	pCi/L	04/14/21 12:18	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05061 MW-9 **Lab ID: 92529288014** Collected: 03/09/21 12:33 Received: 03/23/21 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	0.767 ± 0.344 (0.420) C:93% T:NA	pCi/L	04/20/21 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.395U ± 0.449 (0.939) C:72% T:68%	pCi/L	04/14/21 12:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.16U ± 0.793 (1.36)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05062 MW-14 **Lab ID: 92529288015** Collected: 03/09/21 13:40 Received: 03/23/21 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	0.570 ± 0.326 (0.500) C:93% T:NA	pCi/L	04/20/21 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.712U ± 0.500 (0.967) C:65% T:81%	pCi/L	04/14/21 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.28U ± 0.826 (1.47)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05192 MW-25 **Lab ID: 92529288016** Collected: 03/10/21 09:35 Received: 03/23/21 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	0.160U ± 0.179 (0.349) C:90% T:NA	pCi/L	04/20/21 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.870U ± 0.523 (0.959) C:67% T:69%	pCi/L	04/14/21 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03U ± 0.702 (1.31)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05193 MW-44H **Lab ID: 92529288017** Collected: 03/10/21 10:44 Received: 03/23/21 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	0.295U ± 0.216 (0.333) C:94% T:NA	pCi/L	04/20/21 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.628U ± 0.491 (0.974) C:62% T:80%	pCi/L	04/14/21 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.923U ± 0.707 (1.31)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05194 FB-3 **Lab ID: 92529288018** Collected: 03/10/21 11:15 Received: 03/23/21 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	0.166U ± 0.175 (0.329) C:94% T:NA	pCi/L	04/20/21 06:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.00636U ± 0.338 (0.786) C:65% T:98%	pCi/L	04/14/21 12:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.172U ± 0.513 (1.12)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05195 MW-57H **Lab ID: 92529288019** Collected: 03/10/21 11:40 Received: 03/23/21 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	0.445 ± 0.276 (0.415) C:92% T:NA	pCi/L	04/20/21 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.805U ± 0.518 (0.983) C:72% T:70%	pCi/L	04/14/21 12:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25U ± 0.794 (1.40)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05196 MW-54H **Lab ID: 92529288020** Collected: 03/10/21 12:30 Received: 03/23/21 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	0.790 ± 0.327 (0.254) C:93% T:NA	pCi/L	04/20/21 06:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.617U ± 0.496 (0.978) C:70% T:64%	pCi/L	04/14/21 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.41 ± 0.823 (1.23)	pCi/L	04/20/21 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05197 MW-53H **Lab ID: 92529288021** Collected: 03/10/21 13:22 Received: 03/23/21 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	0.616 ± 0.297 (0.343) C:95% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.675U ± 0.497 (0.965) C:72% T:70%	pCi/L	04/15/21 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.29U ± 0.794 (1.31)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05198 MW-43H **Lab ID: 92529288022** Collected: 03/09/21 12:38 Received: 03/23/21 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	0.934 ± 0.360 (0.332) C:94% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.604U ± 0.494 (0.984) C:67% T:70%	pCi/L	04/15/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.54 ± 0.854 (1.32)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05199 FB-1 **Lab ID: 92529288023** Collected: 03/09/21 13:05 Received: 03/23/21 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	0.0568U ± 0.148 (0.362) C:93% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.136U ± 0.416 (0.936) C:60% T:87%	pCi/L	04/15/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.193U ± 0.564 (1.30)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05200 MW-42H **Lab ID: 92529288024** Collected: 03/09/21 13:50 Received: 03/23/21 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	0.402 ± 0.236 (0.302) C:93% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.216U ± 0.443 (0.977) C:62% T:79%	pCi/L	04/15/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.618U ± 0.679 (1.28)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05200 MW-42H MS **Lab ID: 92529288025** Collected: 03/09/21 13:50 Received: 03/23/21 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	112.20 %REC ± NA (NA) C:NA T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	94.16 %REC ± NA (NA) C:NA T:NA	pCi/L	04/15/21 11:40	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05200 MW-42H MSD **Lab ID: 92529288026** Collected: 03/09/21 13:50 Received: 03/23/21 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	111.02 %REC 1.06RPD ± NA (NA) C:NA T:NA	pCi/L	04/20/21 06:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	93.69 %REC 0.49 RPD ± NA (NA) C:NA T:NA	pCi/L	04/15/21 11:40	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05201 MW-49H **Lab ID: 92529288027** Collected: 03/10/21 09:20 Received: 03/23/21 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	0.0777U ± 0.150 (0.345) C:93% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.183U ± 0.400 (0.889) C:67% T:72%	pCi/L	04/15/21 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.261U ± 0.550 (1.23)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05202 MW-49H DUP **Lab ID: 92529288028** Collected: 03/10/21 09:20 Received: 03/23/21 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	0.160U ± 0.176 (0.334) C:88% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.156U ± 0.431 (0.964) C:65% T:78%	pCi/L	04/15/21 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.316U ± 0.607 (1.30)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05203 MW-48H **Lab ID: 92529288029** Collected: 03/10/21 10:25 Received: 03/23/21 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 ± 0.237 (0.368) C:94% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.214U ± 0.492 (0.999) C:72% T:68%	pCi/L	04/15/21 12:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.570U ± 0.729 (1.37)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05204 MW-12 **Lab ID: 92529288030** Collected: 03/10/21 11:22 Received: 03/23/21 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	0.0446U ± 0.128 (0.319) C:93% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.436U ± 0.470 (0.982) C:65% T:79%	pCi/L	04/15/21 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.481U ± 0.598 (1.30)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05205 MW-21 **Lab ID: 92529288031** Collected: 03/10/21 12:13 Received: 03/23/21 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	0.0593U ± 0.175 (0.430) C:93% T:NA	pCi/L	04/20/21 06:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.359U ± 0.461 (0.983) C:70% T:74%	pCi/L	04/15/21 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.418U ± 0.636 (1.41)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05206 MW-11 **Lab ID: 92529288032** Collected: 03/10/21 13:08 Received: 03/23/21 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	0.0362U ± 0.286 (0.715) C:90% T:NA	pCi/L	04/20/21 07:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.630U ± 0.481 (0.939) C:65% T:73%	pCi/L	04/15/21 11:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.666U ± 0.767 (1.65)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05207 MW-45H **Lab ID: 92529288033** Collected: 03/10/21 14:33 Received: 03/23/21 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	0.210U ± 0.227 (0.453) C:94% T:NA	pCi/L	04/20/21 07:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.357U ± 0.383 (0.973) C:74% T:68%	pCi/L	04/15/21 11:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.210U ± 0.610 (1.43)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05208 MW-38H **Lab ID: 92529288034** Collected: 03/10/21 09:15 Received: 03/23/21 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	0.0486U ± 0.173 (0.430) C:94% T:NA	pCi/L	04/20/21 07:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.517U ± 0.477 (0.973) C:72% T:70%	pCi/L	04/15/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.566U ± 0.650 (1.40)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05209 MW-15 **Lab ID: 92529288035** Collected: 03/10/21 10:35 Received: 03/23/21 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 ± 0.197 (0.410) C:92% T:NA	pCi/L	04/20/21 07:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.184U ± 0.394 (0.871) C:64% T:82%	pCi/L	04/15/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.335U ± 0.591 (1.28)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05210 MW-40H **Lab ID: 92529288036** Collected: 03/10/21 11:25 Received: 03/23/21 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	0.258U ± 0.200 (0.316) C:95% T:NA	pCi/L	04/20/21 07:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.264U ± 0.447 (0.974) C:63% T:80%	pCi/L	04/15/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.522U ± 0.647 (1.29)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05211 MW-40H DUP **Lab ID: 92529288037** Collected: 03/10/21 11:25 Received: 03/23/21 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	0.242U ± 0.191 (0.300) C:94% T:NA	pCi/L	04/20/21 07:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.808U ± 0.498 (0.936) C:61% T:86%	pCi/L	04/15/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05U ± 0.689 (1.24)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05212 MW-24 **Lab ID: 92529288038** Collected: 03/10/21 12:32 Received: 03/23/21 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	1.08 ± 0.400 (0.391) C:91% T:NA	pCi/L	04/20/21 07:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.07 ± 0.548 (0.968) C:64% T:77%	pCi/L	04/15/21 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.15 ± 0.948 (1.36)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05213 MW-23 **Lab ID: 92529288039** Collected: 03/10/21 13:25 Received: 03/23/21 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	0.0378U ± 0.152 (0.387) C:95% T:NA	pCi/L	04/20/21 07:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.971 ± 0.482 (0.834) C:65% T:84%	pCi/L	04/15/21 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01U ± 0.634 (1.22)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05214 PZ-4 **Lab ID: 92529288040** Collected: 03/10/21 14:45 Received: 03/23/21 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	0.603 ± 0.336 (0.507) C:93% T:NA	pCi/L	04/20/21 07:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.755U ± 0.506 (0.974) C:62% T:85%	pCi/L	04/15/21 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.36U ± 0.842 (1.48)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05215 FB-2 **Lab ID: 92529288041** Collected: 03/10/21 15:05 Received: 03/23/21 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	-0.00512U ± 0.143 (0.407) C:93% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0817U ± 0.381 (0.866) C:71% T:88%	pCi/L	04/15/21 14:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0817U ± 0.524 (1.27)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05523 MW-10 **Lab ID: 92529288042** Collected: 03/15/21 11:08 Received: 03/23/21 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	0.716 ± 0.381 (0.511) C:91% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.404U ± 0.456 (0.954) C:64% T:85%	pCi/L	04/15/21 14:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.12U ± 0.837 (1.47)	pCi/L	04/20/21 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05524 MW-13 **Lab ID: 92529288043** Collected: 03/15/21 12:02 Received: 03/23/21 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	0.133U ± 0.180 (0.378) C:91% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.404U ± 0.466 (0.979) C:65% T:80%	pCi/L	04/15/21 14:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.537U ± 0.646 (1.36)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05525 MW-13 DUP **Lab ID: 92529288044** Collected: 03/15/21 12:02 Received: 03/23/21 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	0.234U ± 0.188 (0.300) C:94% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.167U ± 0.404 (0.902) C:64% T:78%	pCi/L	04/15/21 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.401U ± 0.592 (1.20)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05526 MW-31 **Lab ID: 92529288045** Collected: 03/15/21 13:25 Received: 03/23/21 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	0.106U ± 0.166 (0.362) C:94% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.711U ± 0.502 (0.969) C:65% T:78%	pCi/L	04/15/21 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.817U ± 0.668 (1.33)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05527 FB-5 **Lab ID: 92529288046** Collected: 03/15/21 14:02 Received: 03/23/21 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	0.0176U ± 0.180 (0.472) C:95% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0377U ± 0.415 (0.975) C:67% T:78%	pCi/L	04/15/21 14:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0176U ± 0.595 (1.45)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05528 MW-32 **Lab ID: 92529288047** Collected: 03/15/21 14:18 Received: 03/23/21 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 ± 0.227 (0.444) C:95% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.883 ± 0.477 (0.854) C:68% T:86%	pCi/L	04/15/21 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11U ± 0.704 (1.30)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05529 MW-33 **Lab ID: 92529288048** Collected: 03/15/21 15:16 Received: 03/23/21 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	-0.0395U ± 0.114 (0.371) C:96% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.771U ± 0.483 (0.896) C:67% T:76%	pCi/L	04/15/21 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.771U ± 0.597 (1.27)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05530 MW-34HA **Lab ID: 92529288049** Collected: 03/15/21 16:15 Received: 03/23/21 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	0.317U ± 0.231 (0.377) C:93% T:NA	pCi/L	04/20/21 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.541U ± 0.485 (0.977) C:63% T:72%	pCi/L	04/15/21 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.858U ± 0.716 (1.35)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05531 MW-5 **Lab ID: 92529288050** Collected: 03/16/21 10:24 Received: 03/23/21 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	1.15 ± 0.439 (0.464) C:88% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.558U ± 0.478 (0.965) C:67% T:81%	pCi/L	04/15/21 14:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.71 ± 0.917 (1.43)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05532 MW-3 **Lab ID: 92529288051** Collected: 03/16/21 11:23 Received: 03/23/21 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	0.552 ± 0.307 (0.446) C:95% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.00117U ± 0.366 (0.853) C:68% T:90%	pCi/L	04/15/21 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.553U ± 0.673 (1.30)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05533 MW-2 **Lab ID: 92529288052** Collected: 03/16/21 12:21 Received: 03/23/21 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	0.171U ± 0.217 (0.452) C:92% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.880U ± 0.509 (0.923) C:65% T:78%	pCi/L	04/15/21 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05U ± 0.726 (1.38)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05534 EB-1 **Lab ID: 92529288053** Collected: 03/16/21 12:50 Received: 03/23/21 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	0.0448U ± 0.179 (0.451) C:92% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.457U ± 0.460 (0.947) C:67% T:74%	pCi/L	04/15/21 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.502U ± 0.639 (1.40)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05535 MW-41H **Lab ID: 92529288054** Collected: 03/15/21 10:54 Received: 03/23/21 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	0.474 ± 0.288 (0.436) C:88% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.472U ± 0.478 (0.987) C:62% T:87%	pCi/L	04/15/21 14:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.946U ± 0.766 (1.42)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05536 MW-30 **Lab ID: 92529288055** Collected: 03/15/21 12:14 Received: 03/23/21 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	0.280U ± 0.247 (0.466) C:95% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.321U ± 0.416 (0.886) C:63% T:92%	pCi/L	04/15/21 14:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.601U ± 0.663 (1.35)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05537 MW-30 DUP **Lab ID: 92529288056** Collected: 03/15/21 12:14 Received: 03/23/21 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	0.149U ± 0.167 (0.324) C:95% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.308U ± 0.439 (0.943) C:68% T:79%	pCi/L	04/15/21 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.457U ± 0.606 (1.27)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05538 FB-4 **Lab ID: 92529288057** Collected: 03/15/21 12:40 Received: 03/23/21 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	0.211U ± 0.193 (0.336) C:92% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0786U ± 0.389 (0.888) C:66% T:88%	pCi/L	04/15/21 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.290U ± 0.582 (1.22)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05539 MW-29 **Lab ID: 92529288058** Collected: 03/15/21 13:32 Received: 03/23/21 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	0.324U ± 0.230 (0.351) C:94% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.294U ± 0.423 (0.910) C:68% T:85%	pCi/L	04/15/21 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.618U ± 0.653 (1.26)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05540 MW-28 **Lab ID: 92529288059** Collected: 03/15/21 14:22 Received: 03/23/21 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	0.560 ± 0.293 (0.392) C:92% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.935 ± 0.471 (0.820) C:69% T:86%	pCi/L	04/15/21 14:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.50 ± 0.764 (1.21)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05541 MW-27 **Lab ID: 92529288060** Collected: 03/15/21 15:07 Received: 03/23/21 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	0.135U ± 0.165 (0.330) C:90% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.443U ± 0.424 (0.870) C:74% T:79%	pCi/L	04/15/21 14:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.578U ± 0.589 (1.20)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05542 MW-26 **Lab ID: 92529288061** Collected: 03/15/21 16:02 Received: 03/23/21 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	0.256U ± 0.233 (0.439) C:95% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0910U ± 0.334 (0.757) C:77% T:83%	pCi/L	04/07/21 15:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.347U ± 0.567 (1.20)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05543 MW-35H **Lab ID: 92529288062** Collected: 03/16/21 10:15 Received: 03/23/21 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	0.149U ± 0.191 (0.396) C:89% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.387U ± 0.391 (0.804) C:72% T:79%	pCi/L	04/07/21 15:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.536U ± 0.582 (1.20)	pCi/L	04/20/21 13:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05544 MW-37H **Lab ID: 92529288063** Collected: 03/16/21 11:16 Received: 03/23/21 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	0.0911U ± 0.170 (0.389) C:94% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.863 ± 0.461 (0.823) C:73% T:83%	pCi/L	04/07/21 15:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.954U ± 0.631 (1.21)	pCi/L	04/20/21 13:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Sample: BB05545 MW-1 **Lab ID: 92529288064** Collected: 03/16/21 12:56 Received: 03/23/21 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	0.350 ± 0.232 (0.324) C:86% T:NA	pCi/L	04/20/21 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.10 ± 0.549 (0.952) C:72% T:72%	pCi/L	04/07/21 15:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.45 ± 0.781 (1.28)	pCi/L	04/20/21 13:24	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

QC Batch:	440627	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92529288041, 92529288042, 92529288043, 92529288044, 92529288045, 92529288046, 92529288047, 92529288048, 92529288049, 92529288050, 92529288051, 92529288052, 92529288053, 92529288054, 92529288055, 92529288056, 92529288057, 92529288058, 92529288059, 92529288060		

METHOD BLANK:	2127276	Matrix:	Water
Associated Lab Samples:	92529288041, 92529288042, 92529288043, 92529288044, 92529288045, 92529288046, 92529288047, 92529288048, 92529288049, 92529288050, 92529288051, 92529288052, 92529288053, 92529288054, 92529288055, 92529288056, 92529288057, 92529288058, 92529288059, 92529288060		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.193 ± 0.178 (0.316) C:95% T:NA	pCi/L	04/20/21 09:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

QC Batch: 440492

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92529288001, 92529288002, 92529288003, 92529288004, 92529288005, 92529288006, 92529288007, 92529288008, 92529288009, 92529288010, 92529288011, 92529288012, 92529288013, 92529288014, 92529288015, 92529288016, 92529288017, 92529288018, 92529288019, 92529288020

METHOD BLANK: 2126649

Matrix: Water

Associated Lab Samples: 92529288001, 92529288002, 92529288003, 92529288004, 92529288005, 92529288006, 92529288007, 92529288008, 92529288009, 92529288010, 92529288011, 92529288012, 92529288013, 92529288014, 92529288015, 92529288016, 92529288017, 92529288018, 92529288019, 92529288020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.00294 ± 0.390 (0.909) C:67% T:82%	pCi/L	04/14/21 12:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

QC Batch: 440496

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory:

Pace Analytical Services - Greensburg

Associated Lab Samples: 92529288061, 92529288062, 92529288063, 92529288064

METHOD BLANK: 2126657

Matrix: Water

Associated Lab Samples: 92529288061, 92529288062, 92529288063, 92529288064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.397 ± 0.398 (0.818) C:74% T:76%	pCi/L	04/07/21 15:57	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

QC Batch: 440495

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92529288041, 92529288042, 92529288043, 92529288044, 92529288045, 92529288046, 92529288047, 92529288048, 92529288049, 92529288050, 92529288051, 92529288052, 92529288053, 92529288054, 92529288055, 92529288056, 92529288057, 92529288058, 92529288059, 92529288060

METHOD BLANK: 2126656

Matrix: Water

Associated Lab Samples: 92529288041, 92529288042, 92529288043, 92529288044, 92529288045, 92529288046, 92529288047, 92529288048, 92529288049, 92529288050, 92529288051, 92529288052, 92529288053, 92529288054, 92529288055, 92529288056, 92529288057, 92529288058, 92529288059, 92529288060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.295 ± 0.411 (0.882) C:70% T:86%	pCi/L	04/15/21 14:59	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

QC Batch:	440494	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92529288021, 92529288022, 92529288023, 92529288024, 92529288025, 92529288026, 92529288027, 92529288028, 92529288029, 92529288030, 92529288031, 92529288032, 92529288033, 92529288034, 92529288035, 92529288036, 92529288037, 92529288038, 92529288039, 92529288040

METHOD BLANK:	2126654	Matrix:	Water
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Associated Lab Samples: 92529288021, 92529288022, 92529288023, 92529288024, 92529288025, 92529288026, 92529288027, 92529288028, 92529288029, 92529288030, 92529288031, 92529288032, 92529288033, 92529288034, 92529288035, 92529288036, 92529288037, 92529288038, 92529288039, 92529288040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.169 ± 0.368 (0.897) C:63% T:83%	pCi/L	04/15/21 11:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

QC Batch:	440625	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92529288001, 92529288002, 92529288003, 92529288004, 92529288005, 92529288006, 92529288007, 92529288008, 92529288009, 92529288010, 92529288011, 92529288012, 92529288013, 92529288014, 92529288015, 92529288016, 92529288017, 92529288018, 92529288019, 92529288020

METHOD BLANK:	2127274	Matrix:	Water
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Associated Lab Samples: 92529288001, 92529288002, 92529288003, 92529288004, 92529288005, 92529288006, 92529288007, 92529288008, 92529288009, 92529288010, 92529288011, 92529288012, 92529288013, 92529288014, 92529288015, 92529288016, 92529288017, 92529288018, 92529288019, 92529288020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0709 ± 0.136 (0.312) C:100% T:NA	pCi/L	04/20/21 07:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

QC Batch:	440626	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92529288021, 92529288022, 92529288023, 92529288024, 92529288025, 92529288026, 92529288027, 92529288028, 92529288029, 92529288030, 92529288031, 92529288032, 92529288033, 92529288034, 92529288035, 92529288036, 92529288037, 92529288038, 92529288039, 92529288040

METHOD BLANK: 2127275 Matrix: Water

Associated Lab Samples: 92529288021, 92529288022, 92529288023, 92529288024, 92529288025, 92529288026, 92529288027, 92529288028, 92529288029, 92529288030, 92529288031, 92529288032, 92529288033, 92529288034, 92529288035, 92529288036, 92529288037, 92529288038, 92529288039, 92529288040

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0259 ± 0.124 (0.329) C:95% T:NA	pCi/L	04/20/21 06:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

QC Batch: 440628

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92529288061, 92529288062, 92529288063, 92529288064

METHOD BLANK: 2127277

Matrix: Water

Associated Lab Samples: 92529288061, 92529288062, 92529288063, 92529288064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0158 ± 0.111 (0.308) C:95% T:NA	pCi/L	04/20/21 09:00	

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QUALIFIERS

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529288001	BB05052 MW-36H	EPA 9315	440625		
92529288002	BB05053 MW-18	EPA 9315	440625		
92529288003	BB05053 MW-18 MS	EPA 9315	440625		
92529288004	BB05053 MW-18 MSD	EPA 9315	440625		
92529288005	BB05054 MW-17	EPA 9315	440625		
92529288006	BB05055 MW-16	EPA 9315	440625		
92529288007	BB05056 MW-39H	EPA 9315	440625		
92529288008	BB05057 MW-6	EPA 9315	440625		
92529288009	BB05058 MW-7	EPA 9315	440625		
92529288010	BB05059 MW-7 DUP	EPA 9315	440625		
92529288011	BB05060 MW-8	EPA 9315	440625		
92529288012	BB05060 MW-8 MS	EPA 9315	440625		
92529288013	BB05060 MW-8 MSD	EPA 9315	440625		
92529288014	BB05061 MW-9	EPA 9315	440625		
92529288015	BB05062 MW-14	EPA 9315	440625		
92529288016	BB05192 MW-25	EPA 9315	440625		
92529288017	BB05193 MW-44H	EPA 9315	440625		
92529288018	BB05194 FB-3	EPA 9315	440625		
92529288019	BB05195 MW-57H	EPA 9315	440625		
92529288020	BB05196 MW-54H	EPA 9315	440625		
92529288021	BB05197 MW-53H	EPA 9315	440626		
92529288022	BB05198 MW-43H	EPA 9315	440626		
92529288023	BB05199 FB-1	EPA 9315	440626		
92529288024	BB05200 MW-42H	EPA 9315	440626		
92529288025	BB05200 MW-42H MS	EPA 9315	440626		
92529288026	BB05200 MW-42H MSD	EPA 9315	440626		
92529288027	BB05201 MW-49H	EPA 9315	440626		
92529288028	BB05202 MW-49H DUP	EPA 9315	440626		
92529288029	BB05203 MW-48H	EPA 9315	440626		
92529288030	BB05204 MW-12	EPA 9315	440626		
92529288031	BB05205 MW-21	EPA 9315	440626		
92529288032	BB05206 MW-11	EPA 9315	440626		
92529288033	BB05207 MW-45H	EPA 9315	440626		
92529288034	BB05208 MW-38H	EPA 9315	440626		
92529288035	BB05209 MW-15	EPA 9315	440626		
92529288036	BB05210 MW-40H	EPA 9315	440626		
92529288037	BB05211 MW-40H DUP	EPA 9315	440626		
92529288038	BB05212 MW-24	EPA 9315	440626		
92529288039	BB05213 MW-23	EPA 9315	440626		
92529288040	BB05214 PZ-4	EPA 9315	440626		
92529288041	BB05215 FB-2	EPA 9315	440627		
92529288042	BB05523 MW-10	EPA 9315	440627		
92529288043	BB05524 MW-13	EPA 9315	440627		
92529288044	BB05525 MW-13 DUP	EPA 9315	440627		
92529288045	BB05526 MW-31	EPA 9315	440627		
92529288046	BB05527 FB-5	EPA 9315	440627		
92529288047	BB05528 MW-32	EPA 9315	440627		
92529288048	BB05529 MW-33	EPA 9315	440627		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE COUNTY WMWGREAP_1311

Pace Project No.: 92529288

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529288049	BB05530 MW-34HA	EPA 9315	440627		
92529288050	BB05531 MW-5	EPA 9315	440627		
92529288051	BB05532 MW-3	EPA 9315	440627		
92529288052	BB05533 MW-2	EPA 9315	440627		
92529288053	BB05534 EB-1	EPA 9315	440627		
92529288054	BB05535 MW-41H	EPA 9315	440627		
92529288055	BB05536 MW-30	EPA 9315	440627		
92529288056	BB05537 MW-30 DUP	EPA 9315	440627		
92529288057	BB05538 FB-4	EPA 9315	440627		
92529288058	BB05539 MW-29	EPA 9315	440627		
92529288059	BB05540 MW-28	EPA 9315	440627		
92529288060	BB05541 MW-27	EPA 9315	440627		
92529288061	BB05542 MW-26	EPA 9315	440628		
92529288062	BB05543 MW-35H	EPA 9315	440628		
92529288063	BB05544 MW-37H	EPA 9315	440628		
92529288064	BB05545 MW-1	EPA 9315	440628		
92529288001	BB05052 MW-36H	EPA 9320	440492		
92529288002	BB05053 MW-18	EPA 9320	440492		
92529288003	BB05053 MW-18 MS	EPA 9320	440492		
92529288004	BB05053 MW-18 MSD	EPA 9320	440492		
92529288005	BB05054 MW-17	EPA 9320	440492		
92529288006	BB05055 MW-16	EPA 9320	440492		
92529288007	BB05056 MW-39H	EPA 9320	440492		
92529288008	BB05057 MW-6	EPA 9320	440492		
92529288009	BB05058 MW-7	EPA 9320	440492		
92529288010	BB05059 MW-7 DUP	EPA 9320	440492		
92529288011	BB05060 MW-8	EPA 9320	440492		
92529288012	BB05060 MW-8 MS	EPA 9320	440492		
92529288013	BB05060 MW-8 MSD	EPA 9320	440492		
92529288014	BB05061 MW-9	EPA 9320	440492		
92529288015	BB05062 MW-14	EPA 9320	440492		
92529288016	BB05192 MW-25	EPA 9320	440492		
92529288017	BB05193 MW-44H	EPA 9320	440492		
92529288018	BB05194 FB-3	EPA 9320	440492		
92529288019	BB05195 MW-57H	EPA 9320	440492		
92529288020	BB05196 MW-54H	EPA 9320	440492		
92529288021	BB05197 MW-53H	EPA 9320	440494		
92529288022	BB05198 MW-43H	EPA 9320	440494		
92529288023	BB05199 FB-1	EPA 9320	440494		
92529288024	BB05200 MW-42H	EPA 9320	440494		
92529288025	BB05200 MW-42H MS	EPA 9320	440494		
92529288026	BB05200 MW-42H MSD	EPA 9320	440494		
92529288027	BB05201 MW-49H	EPA 9320	440494		
92529288028	BB05202 MW-49H DUP	EPA 9320	440494		
92529288029	BB05203 MW-48H	EPA 9320	440494		
92529288030	BB05204 MW-12	EPA 9320	440494		
92529288031	BB05205 MW-21	EPA 9320	440494		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529288032	BB05206 MW-11	EPA 9320	440494		
92529288033	BB05207 MW-45H	EPA 9320	440494		
92529288034	BB05208 MW-38H	EPA 9320	440494		
92529288035	BB05209 MW-15	EPA 9320	440494		
92529288036	BB05210 MW-40H	EPA 9320	440494		
92529288037	BB05211 MW-40H DUP	EPA 9320	440494		
92529288038	BB05212 MW-24	EPA 9320	440494		
92529288039	BB05213 MW-23	EPA 9320	440494		
92529288040	BB05214 PZ-4	EPA 9320	440494		
92529288041	BB05215 FB-2	EPA 9320	440495		
92529288042	BB05523 MW-10	EPA 9320	440495		
92529288043	BB05524 MW-13	EPA 9320	440495		
92529288044	BB05525 MW-13 DUP	EPA 9320	440495		
92529288045	BB05526 MW-31	EPA 9320	440495		
92529288046	BB05527 FB-5	EPA 9320	440495		
92529288047	BB05528 MW-32	EPA 9320	440495		
92529288048	BB05529 MW-33	EPA 9320	440495		
92529288049	BB05530 MW-34HA	EPA 9320	440495		
92529288050	BB05531 MW-5	EPA 9320	440495		
92529288051	BB05532 MW-3	EPA 9320	440495		
92529288052	BB05533 MW-2	EPA 9320	440495		
92529288053	BB05534 EB-1	EPA 9320	440495		
92529288054	BB05535 MW-41H	EPA 9320	440495		
92529288055	BB05536 MW-30	EPA 9320	440495		
92529288056	BB05537 MW-30 DUP	EPA 9320	440495		
92529288057	BB05538 FB-4	EPA 9320	440495		
92529288058	BB05539 MW-29	EPA 9320	440495		
92529288059	BB05540 MW-28	EPA 9320	440495		
92529288060	BB05541 MW-27	EPA 9320	440495		
92529288061	BB05542 MW-26	EPA 9320	440496		
92529288062	BB05543 MW-35H	EPA 9320	440496		
92529288063	BB05544 MW-37H	EPA 9320	440496		
92529288064	BB05545 MW-1	EPA 9320	440496		
92529288001	BB05052 MW-36H	Total Radium Calculation	444056		
92529288002	BB05053 MW-18	Total Radium Calculation	444056		
92529288005	BB05054 MW-17	Total Radium Calculation	444056		
92529288006	BB05055 MW-16	Total Radium Calculation	444056		
92529288007	BB05056 MW-39H	Total Radium Calculation	444056		
92529288008	BB05057 MW-6	Total Radium Calculation	444056		
92529288009	BB05058 MW-7	Total Radium Calculation	444056		
92529288010	BB05059 MW-7 DUP	Total Radium Calculation	444056		
92529288011	BB05060 MW-8	Total Radium Calculation	444056		
92529288014	BB05061 MW-9	Total Radium Calculation	444056		
92529288015	BB05062 MW-14	Total Radium Calculation	444056		
92529288016	BB05192 MW-25	Total Radium Calculation	444056		
92529288017	BB05193 MW-44H	Total Radium Calculation	444056		
92529288018	BB05194 FB-3	Total Radium Calculation	444056		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE COUNTY WMWGREAP_1311
Pace Project No.: 92529288

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92529288019	BB05195 MW-57H	Total Radium Calculation	444056		
92529288020	BB05196 MW-54H	Total Radium Calculation	444056		
92529288021	BB05197 MW-53H	Total Radium Calculation	444097		
92529288022	BB05198 MW-43H	Total Radium Calculation	444097		
92529288023	BB05199 FB-1	Total Radium Calculation	444097		
92529288024	BB05200 MW-42H	Total Radium Calculation	444097		
92529288027	BB05201 MW-49H	Total Radium Calculation	444097		
92529288028	BB05202 MW-49H DUP	Total Radium Calculation	444097		
92529288029	BB05203 MW-48H	Total Radium Calculation	444097		
92529288030	BB05204 MW-12	Total Radium Calculation	444097		
92529288031	BB05205 MW-21	Total Radium Calculation	444097		
92529288032	BB05206 MW-11	Total Radium Calculation	444097		
92529288033	BB05207 MW-45H	Total Radium Calculation	444097		
92529288034	BB05208 MW-38H	Total Radium Calculation	444097		
92529288035	BB05209 MW-15	Total Radium Calculation	444097		
92529288036	BB05210 MW-40H	Total Radium Calculation	444097		
92529288037	BB05211 MW-40H DUP	Total Radium Calculation	444097		
92529288038	BB05212 MW-24	Total Radium Calculation	444097		
92529288039	BB05213 MW-23	Total Radium Calculation	444097		
92529288040	BB05214 PZ-4	Total Radium Calculation	444097		
92529288041	BB05215 FB-2	Total Radium Calculation	444097		
92529288042	BB05523 MW-10	Total Radium Calculation	444097		
92529288043	BB05524 MW-13	Total Radium Calculation	444098		
92529288044	BB05525 MW-13 DUP	Total Radium Calculation	444098		
92529288045	BB05526 MW-31	Total Radium Calculation	444098		
92529288046	BB05527 FB-5	Total Radium Calculation	444098		
92529288047	BB05528 MW-32	Total Radium Calculation	444098		
92529288048	BB05529 MW-33	Total Radium Calculation	444098		
92529288049	BB05530 MW-34HA	Total Radium Calculation	444098		
92529288050	BB05531 MW-5	Total Radium Calculation	444098		
92529288051	BB05532 MW-3	Total Radium Calculation	444098		
92529288052	BB05533 MW-2	Total Radium Calculation	444098		
92529288053	BB05534 EB-1	Total Radium Calculation	444098		
92529288054	BB05535 MW-41H	Total Radium Calculation	444098		
92529288055	BB05536 MW-30	Total Radium Calculation	444098		
92529288056	BB05537 MW-30 DUP	Total Radium Calculation	444098		
92529288057	BB05538 FB-4	Total Radium Calculation	444098		
92529288058	BB05539 MW-29	Total Radium Calculation	444098		
92529288059	BB05540 MW-28	Total Radium Calculation	444098		
92529288060	BB05541 MW-27	Total Radium Calculation	444098		
92529288061	BB05542 MW-26	Total Radium Calculation	444098		
92529288062	BB05543 MW-35H	Total Radium Calculation	444098		
92529288063	BB05544 MW-37H	Total Radium Calculation	444099		
92529288064	BB05545 MW-1	Total Radium Calculation	444099		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:		Required Project Information:	
Company: Alabama Power Company	Report To: Laura Midditt	Company Name: Alabama Power Co.	Attention: Laura Midditt
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Caton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Requesting Agency: _____
Email To: lbmlditt@southern.com	Purchase Order #: APC57570-0001	Phone: 205-864-6197 Fax: _____	Regulatory Agency: _____
Requested Due Date: 28 days	Project Name: Plant Greene County Ash Pond	Requested Due Date: _____	State/Location: _____
	Project Number: WMM/GREAP 1311	Page Profile #: 13805	

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other
1	BB05052	MW-36H	GW/G					1										
2	BB05053	MW-18	GW/G					3	X									
3	BB05054	MW-17	GW/G					1	X									
4	BB05055	MW-16	GW/G					1	X									
5	BB05056	MW-39H	GW/G					1	X									
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY/ AFFILIATION	DATE	TIME	ACCEPTED BY/ AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Laura Midditt/ APC-GTL	3/18/2021	12:30				

SAMPLER NAME AND SIGNATURE	
PRINT NAME OF SAMPLER:	DATE SIGNED:
SIGNATURE OF SAMPLER:	
TEMP in C	Received on Ice (Y/N)
	Custody Sealed Cooler (Y/N)
	Samples Intact (Y/N)

W0#: 92529288



92529288

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:

Company: **Alabama Power Company**
 Address: **744 Highway 87 GSC Bldg #8**
Calera, AL 35040
 Email To: **lmidkiff@southemco.com**
 Phone: **205-664-6197** Fax:
 Requested Due Date: **28 days**

Section B

Required Project Information:

Report To: **Laura Midkiff**
 Copy To: **Brooke Caton & Renee Jernigan**
 Purchase Order #: **APCS5750-0001**
 Project Name: **Plant Greene County Ash Pond**
 Project Number: **WINWGREAP 1311**

Section C

Invoice Information:

Attention: **Laura Midkiff**
 Company Name: **Alabama Power Co.**
 Address: **744 Highway 87 GSC Bldg #8**
 POC Name: **Kevin Herrington@pacelabs.com**
 POC Title: **CCR**
 POC Phone: **205-664-6197**
 POC Fax: **205-664-6197**
 POC Email: **Kevin.Herrington@pacelabs.com**
 Page Profile #: **13805**

ITEM #	SAMPLE ID (One Character per box. Sample IDs must be unique)	MATRIX Drinking Water Waste Water Product Water Sulf/Solid Oil Wipe Air Soil Tissue	CODE DW WW PW SL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives							Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS					
						START DATE	END DATE				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	TEMP In C	Received on Ice (Y/N)
1	BB05057	MW-6	GW/G	GW/G	G	3/9/2021	9:16	1	1	X									X	X	X					
2	BB05058	MW-7	GW/G	GW/G	G	3/9/2021	10:15	1	1	X									X	X	X					
3	BB05059	MW-7 DUP	GW/G	GW/G	G	3/9/2021	10:15	1	1	X									X	X	X					
4	BB05060	MW-8	GW/G	GW/G	G	3/9/2021	11:05	3	3	X	X	X	X	X					X	X	X	X				
5	BB05061	MW-9	GW/G	GW/G	G	3/9/2021	12:33	1	1	X	X	X	X	X					X	X	X	X				
6	BB05062	MW-14	GW/G	GW/G	G	3/9/2021	13:40	1	1	X	X	X	X	X					X	X	X	X				
7																										
8																										
9																										
10																										
11																										
12																										
ADDITIONAL COMMENTS																										
REINQUIRED BY / AFFILIATION																										
Laura Midkiff APC GTL								3/18/2021		12:30																

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 accurately.

Section A
Required Client Information:

Company: Alabama Power Company
Address: 744 Highway 87 GSC Bldg #8
Caledra, AL 35040
Phone: 205-664-6197
Requested Due Date: 28 days

Section B
Required Project Information:

Report To: Laura Mickliff
Copy To: Brooke Cation & Renee Jernigan
Purchase Order #: APC67570-0001
Plant Greene County Ash Pond
Project Name: WAWWGREAP 1311

Section C
Invoice Information:

Attention: Laura Mickliff
Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8
Page Quote: COR
Page Project Manager: Kevin.Hemming@apacalabs.com
Page Profile #: 13805

Regulatory Agency: _____
State/Location: _____

Page: 3 Of 7

ITEM #	SAMPLE ID <small>One Character per box (A-Z, 0-9 / - , -) Sample IDs must be unique</small>	MATRIX <small>Dining Water Waste Water Wastewater Product Sewage Oil Wipe Other Tissue</small>	CODE <small>DW WT WW P SL WIP OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)						
						START	END					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D		
						DATE	TIME					DATE	TIME															
1	BB05192	MM-25		MM-25	GW/G			3/10/2021	9:35		1	X																
2	BB05193	MM-44H		MM-44H	GW/G			3/10/2021	10:44		1	X																
3	BB05194	FB-3		FB-3	GW/G			3/10/2021	11:16		1	X																
4	BB05195	MM-57H		MM-57H	GW/G			3/10/2021	11:40		1	X																
5	BB05198	MM-54H		MM-54H	GW/G			3/10/2021	12:30		1	X																
6	BB05197	MM-53H		MM-53H	GW/G			3/10/2021	13:22		1	X																
7																												
8																												
9																												
10																												
11																												
12																												
ADDITIONAL COMMENTS		REINQUISHED BY/AFFILIATION		DATE		TIME		ACCEPTED BY/AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		TEMP In C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)						

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	DATE Signed:
SIGNATURE of SAMPLER:	

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
 Address: 744 Highway 87 GSC Bldg #8
 Email To: lmidkiff@southemco.com
 Phone: 205-684-6197 Fax
 Requested Due Date: 28 days

Report To: Laura Midkiff
 Copy To: Brooke Cation & Renee Jernigan
 Purchase Order #: APC67570-0001
 Project Name: Plant Greene County Ash Pond
 Project Number: WMWGREAP 1311

Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Page Quote: CCR
 Page Project Manager: Kevin Herrington@apacalabs.com
 Page Profile #: 13805

Page : 4 Of 7

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Regulatory Agency	State / Location
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
MATRIX	CODE	DATE	TIME	DATE	TIME															
1	BB05198	MM-43H	GW/G	3/9/2021	12:38		1	X												
2	BB05199	FB-1	GW/G	3/9/2021	13:05		1	X												
3	BB05200	MM-42H	GW/G	3/9/2021	13:50		3	X												
4	BB05201	MM-45H	GW/G	3/10/2021	9:20		1	X												
5	BB05202	MM-49H DUP	GW/G	3/10/2021	9:20		1	X												
6	BB05203	MM-43H	GW/G	3/10/2021	10:25		1	X												
7	BB05204	MM-12	GW/G	3/10/2021	11:22		1	X												
8	BB05205	MM-21	GW/G	3/10/2021	12:13		1	X												
9	BB05206	MM-11	GW/G	3/10/2021	13:08		1	X												
10	BB05207	MM-45H	GW/G	3/10/2021	14:33		1	X												
11																				
12																				
ADDITIONAL COMMENTS				REMOVED BY/AFFILIATION				DATE	TIME	ACCEPTED BY/AFFILIATION				DATE	TIME	SAMPLE CONDITIONS				
				Laura Midkiff APC GTL				3/18/2021	12:30											
SAMPLER NAME AND SIGNATURE		PRINT NAME OF SAMPLER:		SIGNATURE OF SAMPLER:		DATE SIGNED:		TEMP In C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)						

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	Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Report To: Laura Mickitt	Copy To: Brooke Caton & Renee Jernigan	Attention: Laura Mickitt	Company Name: Alabama Power Co.
Email To: lbmickitt@southernco.com	Phone: 205-654-5197 Fax	Purchase Order #: APC57576-0001	Project Name: Plant Greene County Ash Pond	Address: 744 Highway 87 GSC Bldg #8	Page Quota: CCR
Requested Due Date: 28 days		Project Number: WWWW/CREAP 1311		Plant Project Manager: Kevin.Herrin@apacalabs.com	Page Profile #: 13805
		Regulatory Agency:		State/Location: AL	

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water Waste Water Product Oil Wipe Air Soil Tissue	CODE P SL WP AR DT TS	MATRIX CODE (see vialk codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analytes Test	Requested Analysis Ethanol: (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS														
						START DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	EPA 9315				EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)								
1	BB05208			MMW-38H	GWG	3/10/2021	9:15	1		X																										
2	BB05209			MMW-15	GWG	3/10/2021	10:35	1		X																										
3	BB05210			MMW-40H	GWG	3/10/2021	11:25	1		X																										
4	BB05211			MMW-40H DUP	GWG	3/10/2021	11:25	1		X																										
5	BB05212			MMW-24	GWG	3/10/2021	12:32	1		X																										
6	BB05213			MMW-23	GWG	3/10/2021	13:25	1		X																										
7	BB05214			PZ-4	GWG	3/10/2021	14:45	1		X																										
8	BB05215			FB-2	GWG	3/10/2021	15:05	1		X																										
9																																				
10																																				
11																																				
12																																				
ADDITIONAL COMMENTS						RELINQUISHED BY / AFFILIATION:		DATE:	TIME:	ACCEPTED BY / AFFILIATION:									DATE:	TIME:	SAMPLE CONDITIONS															
						Laura Mickitt / APC GTL		3/19/2021	12:30																											

SAMPLER NAME AND SIGNATURE		DATE SIGNED:	
PRINT NAME OF SAMPLER:		DATE SIGNED:	
SIGNATURE OF SAMPLER:			

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:

Company: Alabama Power Company
Address: 744 Highway 87 GSC Bldg #8
Calera, AL 35040
Email To: lmidkiff@southernco.com
Phone: 205-664-6197 Fax
Requested Due Date: 28 days

Section B
Required Project Information:

Report To: Laura Midkiff
Copy To: Brooke Caton & Renee Jernigan
Purchase Order #: APC51570-0001
Project Name: Plant Greene County Ash Pond
Project Number: WNWG/REAP_1311

Section C
Invoice Information:

Attention: Laura Midkiff
Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8
Fax Quote: CCR
Pac Project Manager: Kevin.Herrina@pacelabs.com
Pac Profile #: 13805

Page: 5 of 7

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water Waste Water Product Oil Wipe Air Soil Tissue	CODE DW WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives							Analyses Test	Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)								
						START DATE	END DATE				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other									EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D				
1	BB05523	MMW-10	GWG	MMW-10	GWG	3/15/2021	11:08	1	1	X																							
2	BB05524	MMW-13	GWG	MMW-13	GWG	3/15/2021	12:02	1	1	X																							
3	BB05525	MMW-13 DUP	GWG	MMW-13 DUP	GWG	3/15/2021	12:02	1	1	X																							
4	BB05526	MMW-31	GWG	MMW-31	GWG	3/15/2021	13:25	1	1	X																							
5	BB05527	FB-5	GWG	FB-5	GWG	3/15/2021	14:02	1	1	X																							
6	BB05528	MMW-32	GWG	MMW-32	GWG	3/15/2021	12:18	1	1	X																							
7	BB05529	MMW-33	GWG	MMW-33	GWG	3/15/2021	15:16	1	1	X																							
8	BB05530	MMW-34HA	GWG	MMW-34HA	GWG	3/15/2021	16:15	1	1	X																							
9	BB05531	MMW-5	GWG	MMW-5	GWG	3/16/2021	10:24	1	1	X																							
10	BB05532	MMW-3	GWG	MMW-3	GWG	3/16/2021	11:23	1	1	X																							
11	BB05533	MMW-2	GWG	MMW-2	GWG	3/16/2021	12:21	1	1	X																							
12	BB05534	EB-1	GWG	EB-1	GWG	3/16/2021	12:50	1	1	X																							
ADDITIONAL COMMENTS						RELINQUISHED BY / AFFILIATION						DATE		TIME		ACCEPTED BY / AFFILIATION						DATE		TIME		SAMPLE CONDITIONS							
						Laura Midkiff / APC GTL						3/18/2021		12:30																			

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 accurately.

Section A Required Client Information: Alabama Power Company, 744 Highway 87 GSC Bldg #8, Calera, AL 35040
 Section B Required Project Information: Report To: Laura Mickitt, Copy To: Brooke Calton & Renee Jernigan, Plant Greene County Ash Pond, WMAWGREAP 1317
 Section C Invoice Information: Attention: Laura Mickitt, Company Name: Alabama Power Co., Address: 744 Highway 87 GSC Bldg #8, CCR, Kevin.Herrin@peccolab.com, Page Profile #: 13805

Page : 7 Of 7

Company: Alabama Power Company	Report To: Laura Mickitt
Address: 744 Highway 87 GSC Bldg #8, Calera, AL 35040	Copy To: Brooke Calton & Renee Jernigan
Email To: lbmickitt@scplnema.com	Purchase Order #: APC57570-0001
Phone: 205-664-6197	Project Name: Plant Greene County Ash Pond
Requested Due Date: 28 days	Project Number: WMAWGREAP 1317
Requested Due Date: 28 days	Page Profile #: 13805

ITEM #	SAMPLE ID (A-Z, 0-9, -,) Sample IDs must be unique	MATRIX Drinking Water Waste Water Wastewater Product Soil/Solid Wipe Air Other Tissue	CODE DW WW P SL CL WV AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test				Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	AL														
						START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D																	
1	BB05535	MM-41H	GWG	GWG		3/15/2021	10:54	1		X										X																		
2	BB05536	MM-30	GWG	GWG		3/15/2021	12:14	1		X										X																		
3	BB05537	MM-30 DLP	GWG	GWG		3/15/2021	12:14	1		X										X																		
4	BB05538	FB-4	GWG	GWG		3/15/2021	12:40	1		X										X																		
5	BB05539	MM-29	GWG	GWG		3/15/2021	13:32	1		X										X																		
6	BB05540	MM-28	GWG	GWG		3/15/2021	14:22	1		X										X																		
7	BB05541	MM-27	GWG	GWG		3/15/2021	15:07	1		X										X																		
8	BB05542	MM-28	GWG	GWG		3/15/2021	16:02	1		X										X																		
9	BB05543	MM-35H	GWG	GWG		3/16/2021	10:15	1		X										X																		
10	BB05544	MM-37H	GWG	GWG		3/16/2021	11:16	1		X										X																		
11	BB05545	MM-1	GWG	GWG		3/16/2021	12:56	1		X										X																		
12																																						

REINOLISHED BY/AFFILIATION: Laura Mickitt/ APC GTL	DATE: 3/18/2021	TIME: 12:30	ACCEPTED BY/AFFILIATION:	DATE:	TIME:	SAMPLE CONDITIONS:
SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: SIGNATURE of SAMPLER:						
DATE Signed:						
TEMP in C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)						

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/30/2021
Worklist: 59566
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2127274
MB concentration:	0.071
M/B Counting Uncertainty:	0.136
MB MDC:	0.312
MB Numerical Performance Indicator:	1.03
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS# (Y or N)?	N
LCS#59566	LCS#59566
Count Date:	4/20/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.038
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.210
Target Conc. (pCi/L, g, F):	11.464
Uncertainty (Calculated):	0.138
Result (pCi/L, g, F):	12.605
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.127
Numerical Performance Indicator:	1.97
Percent Recovery:	109.95%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

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 Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

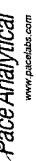
Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	3/9/2021
Sample I.D.:	92529288002
Sample MS I.D.:	92529288003
Sample MSD I.D.:	92529288004
Spike I.D.:	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.039
Spike Volume Used in MS (mL):	0.20
MS Aliquot (L, g, F):	0.20
MS Target Conc. (pCi/L, g, F):	22.771
MSD Aliquot (L, g, F):	0.205
MSD Target Conc. (pCi/L, g, F):	23.482
MS Spike Uncertainty (calculated):	0.273
MSD Spike Uncertainty (calculated):	0.282
Sample Result:	0.473
Sample Result Counting Uncertainty (pCi/L, g, F):	0.260
Sample Matrix Spike Result:	24.047
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.578
Sample Matrix Spike Duplicate Result:	26.080
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.653
MS Numerical Performance Indicator:	0.970
MSD Numerical Performance Indicator:	2.455
MS Percent Recovery:	103.53%
MSD Percent Recovery:	109.05%
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.:	92529288002
Sample MS I.D.:	92529288003
Sample MSD I.D.:	92529288004
Spike I.D.:	24.047
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.578
Sample Matrix Spike Duplicate Result:	26.080
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.653
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	-1.743
Duplicate Numerical Performance Indicator:	5.20%
Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	25%

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OK
10/00/21
VAM 4/20/21

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/30/2021
Worklist: 59567
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2127275
MB concentration:	0.026
MIB Counting Uncertainty:	0.124
MB MDC:	0.329
MB Numerical Performance Indicator:	0.41
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:	4/20/2021	LCS059567	4/20/2021
Spike I.D.:	19-033	19-033	24.038
Decay Corrected Spike Concentration (pCi/mL):	0.10	24.038	0.10
Volume Used (mL):	0.200	11.691	12.002
Aliquot Volume (L, g, F):	0.140	14.556	1.174
Target Conc. (pCi/L, g, F):	1.275	4.38	0.68
Uncertainty (Calculated):	124.51%	N/A	103.42%
Result (pCi/L, g, F):	Pass	Pass	Pass
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	125%	125%	125%
Numerical Performance Indicator:	75%	75%	75%
Status vs Numerical Indicator:			
Status vs Recovery:			
Upper % Recovery Limits:			
Lower % Recovery Limits:			

Duplicate Sample Assessment	
Sample I.D.:	LCS059567
Duplicate Sample I.D.:	LCS059567
Sample Result (pCi/L, g, F):	14.556
Sample Result Counting Uncertainty (pCi/L, g, F):	1.275
Sample Duplicate Result (pCi/L, g, F):	12.412
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	2.423
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.50%
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:

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Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/9/2021	92529286024	92529286025
Sample I.D.:	92529286024	92529286025	92529286026
Sample MS I.D.:	19-033	24.039	0.20
Sample MSD I.D.:	0.20	0.20	0.203
Spike I.D.:	23.648	0.206	23.371
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.284	0.280	0.402
Spike Volume Used in MS (mL):	0.228	26.935	0.228
Spike Volume Used in MSD (mL):	1.698	26.349	1.688
MS Aliquot (L, g, F):	3.257	1.688	3.257
MSD Aliquot (L, g, F):	2.926	112.20%	111.02%
MS Target Conc. (pCi/L, g, F):	N/A	N/A	N/A
MSD Target Conc. (pCi/L, g, F):	Pass	Pass	Pass
MS Spike Uncertainty (calculated):	125%	125%	125%
MSD Spike Uncertainty (calculated):	75%	75%	75%
Sample Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Result:			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92529286024
Sample MS I.D.:	92529286025
Sample MSD I.D.:	92529286026
Sample Matrix Spike Result:	26.935
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.698
Sample Matrix Spike Duplicate Result:	26.349
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.688
Duplicate Numerical Performance Indicator:	0.480
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.06%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Handwritten date: 3/20/21

Quality Control Sample Performance Assessment

Analyst *Must Manually Enter All Fields Highlighted in Yellow.*



Test: Ra-226
Analyst: LAL
Date: 3/31/2021
Worklist: 59568
Matrix: DW

Method Blank Assessment	
MB Sample ID	2127276
MB concentration:	0.193
MB Counting Uncertainty:	0.176
MB MDC:	0.316
MB Numerical Performance Indicator:	2.15
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD59568	LCSD59568
Count Date:	4/20/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.038
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.201
Target Conc. (pCi/L, g, F):	11.981
Uncertainty (Calculated):	0.144
Result (pCi/L, g, F):	14.704
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.283
Numerical Performance Indicator:	4.14
Percent Recovery:	122.73%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	92529288042
Duplicate Sample I.D.:	92529288042DUP
Sample Result (pCi/L, g, F):	0.716
Sample Result Counting Uncertainty (pCi/L, g, F):	0.366
Sample Duplicate Result (pCi/L, g, F):	0.527
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.326
Are sample and/or duplicate results below RL?	See Below
Duplicate Numerical Performance Indicator:	0.757
Duplicate RPD:	30.48%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

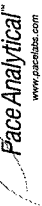
***Batch must be re-prepped due to unacceptable precision: N/A

N/A

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4/20/21

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/31/2021
Worklist: 59568
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2127276
MB concentration:	0.193
M/B Counting Uncertainty:	0.176
MB MDC:	0.316
MB Numerical Performance Indicator:	2.15
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:		LCS59568	
Spike I.D.:		4/20/2021	
Decay Corrected Spike Concentration (pCi/mL):		19-033	
Volume Used (mL):		24.038	
Aliquot Volume (L, g, F):		0.10	
Target Conc. (pCi/L, g, F):		0.201	
Uncertainty (Calculated):		11.981	
Result (pCi/L, g, F):		0.144	
Numerical Performance Indicator:		14.704	
Percent Recovery:		1.283	
Status vs Numerical Indicator:		4.14	
Upper % Recovery Limits:		122.73%	
Lower % Recovery Limits:		N/A	
		Pass	
		125%	
		75%	

Duplicate Sample Assessment	
Sample I.D.:	LCS59568
Duplicate Sample I.D.:	LCS59568
Sample Result (pCi/L, g, F):	14.704
Sample Result Counting Uncertainty (pCi/L, g, F):	1.283
Sample Duplicate Result (pCi/L, g, F):	12.803
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.154
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	2.160
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.16%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

OK 4/12/21

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
<p>Sample Collection Date:</p> <p>Sample I.D.</p> <p>Sample MS I.D.</p> <p>Sample MSD I.D.</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
<p>Sample I.D.</p> <p>Sample MS I.D.</p> <p>Sample MSD I.D.</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>

LAL 4/20/21

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: LAL
Date: 4/5/2021
Worklist: 59569
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID: 2127277
MB concentration: 0.016
M/B Counting Uncertainty: 0.111
MB MDC: 0.308
MB Numerical Performance Indicator: 0.28
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment		LCSID (Y or N)?	Y
Count Date:		LCS059569	
Spike I.D.:		4/20/2021	
Decay Corrected Spike Concentration (pCi/mL):		19-033	
Volume Used (mL):		24.038	
Aliquot Volume (L, g, F):		0.10	
Target Conc. (pCi/L, g, F):		0.208	
Uncertainty (Calculated):		11.568	
Result (pCi/L, g, F):		0.139	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):		13.522	
Numerical Performance Indicator:		1.238	
Percent Recovery:		3.07	
Status vs Numerical Indicator:		116.89%	
Upper % Recovery Limits:		N/A	
Lower % Recovery Limits:		Pass	
		125%	
		75%	

Duplicate Sample Assessment

Sample I.D.: LCS059569
Duplicate Sample I.D.: LCS059569
Sample Result (pCi/L, g, F): 13.522
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 1.238
Sample Duplicate Result (pCi/L, g, F): 13.676
Are sample and/or duplicate results below RL? NO
Duplicate Numerical Performance Indicator: -0.173
Duplicate Status vs Numerical Indicator: 1.91%
Duplicate Status vs RPD: Pass
% RPD Limit: 25%

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:

MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
MS Spike Uncertainty (calculated):
MSD Spike Uncertainty (calculated):

Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:
MS/MSD Upper % Recovery Limits:
MS/MSD Lower % Recovery Limits:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

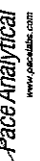
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
Duplicate Status 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:

OK
Van 4/20/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/11/2021
Worklist: 59553
Matrix: WT

Method Blank Assessment	
MB Sample ID	2126649
MB concentration:	-0.003
M/B 2 Sigma CSU:	0.390
MB MDC:	0.909
MB Numerical Performance Indicator:	-0.01
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS59553	LCS59553
Count Date:	4/14/2021
Spike I.D.:	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.079
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.809
Target Conc. (pCi/L, g, F):	4.709
Uncertainty (Calculated):	0.231
Result (pCi/L, g, F):	2.974
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.835
Numerical Performance Indicator:	-3.92
Percent Recovery:	63.17%
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:

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Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample I.D.:	92529288002
Sample MS I.D.:	92529288003
Sample MSD I.D.:	92529288004
Spike I.D.:	21-003
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.535
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):	9.493
MSD Aliquot (L, g, F):	0.806
MSD Target Conc. (pCi/L, g, F):	9.564
MS Spike Uncertainty (calculated):	0.465
MSD Spike Uncertainty (calculated):	0.469
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.636
Sample Matrix Spike Result:	0.485
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	13.249
Sample Matrix Spike Duplicate Result:	2.655
Sample Matrix Spike Duplicate Result:	10.964
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.228
MS Numerical Performance Indicator:	2.233
MSD Numerical Performance Indicator:	0.644
MS Percent Recovery:	132.87%
MSD Percent Recovery:	107.99%
MS Status vs Numerical Indicator:	Warning
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.:	MS/MSD 2
Sample MS I.D.:	92529288011
Sample MSD I.D.:	92529288012
Spike I.D.:	92529288013
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	21-003
Spike Volume Used in MS (mL):	38.535
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.20
MS Target Conc. (pCi/L, g, F):	0.801
MSD Aliquot (L, g, F):	9.618
MSD Target Conc. (pCi/L, g, F):	0.812
MS Spike Uncertainty (calculated):	9.495
MSD Spike Uncertainty (calculated):	0.471
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.465
Sample Matrix Spike Result:	1.131
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	0.567
Sample Matrix Spike Duplicate Result:	8.324
Sample Matrix Spike Duplicate Result:	2.040
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	10.131
MS Numerical Performance Indicator:	2.104
MSD Numerical Performance Indicator:	-2.192
MS Percent Recovery:	-0.436
MSD Percent Recovery:	74.78%
MS Status vs Numerical Indicator:	94.78%
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%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/12/2021
Worklist: 59555
Matrix: WT

Method Blank Assessment	
MB Sample ID	2126654
MB concentration:	-0.169
MB 2 Sigma CSU:	0.368
MB MDC:	0.897
MB Numerical Performance Indicator:	-0.90
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD59555	N
Count Date:	4/15/2021	LCSD59555
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	38.066	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.809	
Target Conc. (pCi/L, g, F):	4.703	
Uncertainty (Calculated):	0.230	
Result (pCi/L, g, F):	4.328	
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.110	
Numerical Performance Indicator:	-0.65	
Percent Recovery:	92.02%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	80%	

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCSD/LCSD in the space below.
Duplicate Sample I.D.:	
Duplicate 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:	

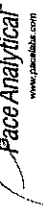
Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/9/2021	
Sample I.D.:	92529288024	
Sample MS I.D.:	92529288025	
Sample MSD I.D.:	92529288026	
Spike I.D.:	21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.533	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.821	
MS Target Conc. (pCi/L, g, F):	9.388	
MSD Aliquot (L, g, F):	0.810	
MSD Target Conc. (pCi/L, g, F):	9.513	
MS Spike Uncertainty (calculated):	0.460	
MSD Spike Uncertainty (calculated):	0.466	
Sample Result:	0.216	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.443	
Sample Matrix Spike Result:	9.056	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.922	
Sample Matrix Spike Duplicate Result:	9.129	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.898	
MS Numerical Performance Indicator:	-0.531	
MSD Numerical Performance Indicator:	-0.587	
MS Percent Recovery:	94.16%	
MSD Percent Recovery:	93.69%	
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:	80%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92529288024
Sample MS I.D.:	92529288025
Sample MSD I.D.:	92529288026
Sample Matrix Spike Result:	9.056
Sample Matrix Spike Duplicate Result:	1.922
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.898
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	-0.053
Duplicate Numerical Performance Indicator:	0.49%
Duplicate Numerical Performance Indicator (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:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/12/2021
Worklist: 59556
Matrix: WT

Method Blank Assessment	
MB Sample ID	2126656
MB concentration:	0.295
MB 2 Sigma CSU:	0.411
MB MDC:	0.882
MB Numerical Performance Indicator:	1.41
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCS59556	4/15/2021
Count Date:	4/15/2021
Spike ID:	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.065
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.807
Target Conc. (pCi/L, g, F):	4.717
Uncertainty (Calculated):	0.231
Result (pCi/L, g, F):	5.448
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.256
Numerical Performance Indicator:	1.12
Percent Recovery:	115.50%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample ID:	LCS59556
Duplicate Sample ID:	LCS59556
Sample Result (pCi/L, g, F):	5.448
Sample Duplicate Result (pCi/L, g, F):	1.256
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	5.125
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.210
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.364
Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.06%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample ID:	MS/MSD 2
Sample MS I.D.:	
Sample MSD I.D.:	
Spike ID:	
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):	
MSD Spike Uncertainty (calculated):	
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 ID:	
Sample MS I.D.:	
Sample MSD I.D.:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
Duplicate (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:

Handwritten signature/initials

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: VAL
Date: 3/31/2021
Worklist: 59557
Matrix: WT

Method Blank Assessment	
MB Sample ID	2126657
MB concentration:	0.397
MB 2 Sigma CSU:	0.398
MB MDC:	0.818
MB Numerical Performance Indicator:	1.96
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?		Y
	LCS59557	LCS259557	
Count Date:	4/7/2021	4/7/2021	
Spike I.D.:	21-003	21-003	
Decay Corrected Spike Concentration (pCi/mL):	38.165	38.165	
Volume Used (mL):	0.10	0.10	
Aliquot Volume (L, g, F):	0.821	0.831	
Target Conc. (pCi/L, g, F):	4.646	4.593	
Uncertainty (Calculated):	0.228	0.225	
Result (pCi/L, g, F):	5.297	4.312	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.182	1.060	
Numerical Performance Indicator:	1.06	-0.51	
Percent Recovery:	114.00%	93.88%	
Status vs Numerical Indicator:	N/A	N/A	
Status vs Recovery:	Pass	Pass	
Upper % Recovery Limits:	135%	135%	
Lower % Recovery Limits:	80%	80%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS59557
Duplicate Sample I.D.:	LCS259557
Sample Result (pCi/L, g, F):	5.297
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.182
Sample Duplicate Result (pCi/L, g, F):	4.312
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.060
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.215
Duplicate Status vs Numerical Indicator:	Pass
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:

2/6/18/21

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: Sample 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:

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



Greene County Ash Pond

2021 MW-46HO (Strong) 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).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification 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
205-664-6001

Analytical Report



Sample Group : WMWGREAP_1312

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

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

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

April 15, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2021. 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, 2021

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

Sincerely,

Quality Control:

Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkiff@southernco.com, c=US
Date: 2021.04.15 12:27:32 -0500

Supervision:

T. Durant
Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.04.19 08:07:11 -0500



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

Greene County Ash Pond

WMWGREAP_1312

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>
BB05063	695222	WMWGREAP_1312
BB05064	695222	WMWGREAP_1312
BB05065	695222	WMWGREAP_1312
BB05066	695222	WMWGREAP_1312

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 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.
- 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. 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>
BB05064	Calcium	10.15
BB05065	Calcium	10.15

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

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1312

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>
BB05064	695210	WMWGREAP_1312
BB05065	695210	WMWGREAP_1312

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 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 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.
 - 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.

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1312

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>
BB05063	694139	WMWGREAP_1312
BB05064	694139	WMWGREAP_1312
BB05065	694139	WMWGREAP_1312
BB05066	694139	WMWGREAP_1312

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.

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. 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>
BB05064	Manganese	5.075
BB05065	Manganese	5.075

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

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1312

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>
BB05064	694389	WMWGREAP_1312
BB05065	694389	WMWGREAP_1312

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.

Matrix Specific Quality Control Procedures:

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

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB05064	Manganese	5.075
BB05065	Manganese	5.075

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

Mercury

Greene County Ash Pond

WMWGREAP_1312

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>
BB05063	694247	WMWGREAP_1312
BB05064	694247	WMWGREAP_1312
BB05065	694247	WMWGREAP_1312
BB05066	694247	WMWGREAP_1312

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.
 8. The raw data results are shown with dilution factors included.

TDS

Greene County Ash Pond

WMWGREAP_1312

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>
BB05063	693613	WMWGREAP_1312
BB05064	693613	WMWGREAP_1312
BB05065	693613	WMWGREAP_1312
BB05066	693613	WMWGREAP_1312

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB05063
 - BB05066

Anions

Greene County Ash Pond

WMWGREAP_1312

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>
BB05063	693767, 693775, & 694005	WMWGREAP_1312
BB05064	693767, 693775, & 694005	WMWGREAP_1312
BB05065	693767, 693775, & 694005	WMWGREAP_1312
BB05066	693767, 693775, & 694005	WMWGREAP_1312

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
 - A sample duplicate was analyzed with each batch. 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>
BB05064	Sulfate	5
BB05065	Sulfate	5

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

Case Narrative

Alkalinity

Greene County Ash Pond

WMWGREAP_1312

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>
BB05064	694169 & 694170	WMWGREAP_1312
BB05065	694169 & 694170	WMWGREAP_1312

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were 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.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/8/21 12:10
Customer ID:
Submittal Date: 3/10/21 14:00

Laboratory ID Number: BB05063

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 12:48		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 12:48		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 12:48		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 12:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 12:48		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 12:48		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 07:40	3/15/21 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 11:10	3/11/21 11:10		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 14:49	3/11/21 14:49		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 10:41	3/16/21 10:41		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 12:10

Customer ID:

Delivery Date: 3/10/21 14:00

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05063

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05066	Cadmium, Total	mg/L	0.0000000	0.000147	0.10	0.0982	0.106	0.101	0.0850 to 0.115	98.2	70.0 to 130	7.64	20.0
BB05066	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.0964	0.108	0.0961	0.0850 to 0.115	96.4	70.0 to 130	11.4	20.0
BB05066	Calcium, Total	mg/L	0.0460	0.152	5.00	5.02	5.08	5.20	4.25 to 5.75	100	70.0 to 130	1.18	20.0
BB05066	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.99	5.04	5.09	4.25 to 5.75	99.8	70.0 to 130	0.959	20.0
BB05066	Boron, Total	mg/L	0.00840	0.0650	1.00	1.00	1.02	1.02	0.850 to 1.15	100	70.0 to 130	2.13	20.0
BB05066	Mercury, Total by CVAA	mg/L	0.0000618	0.000500	0.004	0.00426	0.00422	0.00423	0.00340 to 0.00460	106	70.0 to 130	0.943	20.0
BB05066	Lead, Total	mg/L	0.000064	0.000147	0.10	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BB05066	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.0943	0.102	0.0937	0.0850 to 0.115	94.3	70.0 to 130	7.85	20.0
BB05066	Cobalt, Total	mg/L	-0.000206	0.000147	0.10	0.106	0.115	0.107	0.0850 to 0.115	106	70.0 to 130	8.14	20.0
BB05066	Manganese, Total	mg/L	-0.0000006	0.000147	0.10	0.102	0.110	0.102	0.0850 to 0.115	102	70.0 to 130	7.55	20.0
BB05066	Barium, Total	mg/L	-0.0000114	0.000200	0.10	0.0954	0.104	0.0974	0.0850 to 0.115	95.4	70.0 to 130	8.63	20.0
BB05066	Chromium, Total	mg/L	-0.0000642	0.000440	0.10	0.102	0.111	0.102	0.0850 to 0.115	102	70.0 to 130	8.45	20.0
BB05066	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.199	0.200	0.202	0.170 to 0.230	99.4	70.0 to 130	0.776	20.0
BB05066	Arsenic, Total	mg/L	0.0000555	0.000147	0.10	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB05066	Beryllium, Total	mg/L	0.0000175	0.000880	0.10	0.0975	0.103	0.103	0.0850 to 0.115	97.5	70.0 to 130	5.49	20.0
BB05066	Potassium, Total	mg/L	0.00183	0.367	10.0	10.2	10.4	9.92	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BB05066	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.93	4.96	5.00	4.25 to 5.75	98.6	70.0 to 130	0.672	20.0
BB05066	Selenium, Total	mg/L	0.0000828	0.00100	0.10	0.101	0.107	0.0986	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BB05066	Iron, Total	mg/L	0.000960	0.0176	0.2	0.201	0.204	0.207	0.170 to 0.230	100	70.0 to 130	1.70	20.0
BB05066	Thallium, Total	mg/L	-0.000175	0.000147	0.10	0.100	0.0994	0.102	0.0850 to 0.115	100	70.0 to 130	0.602	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 12:10

Customer ID:

Delivery Date: 3/10/21 14:00

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05063

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB05066	Sulfate	mg/L	-0.154	0.500	20.0	18.8	-0.270	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05066	Chloride	mg/L	-0.0232	0.500	10.0	9.83	0.130	10.1	9.00 to 11.0	98.3	80.0 to 120	0.00	20.0
BB05065	Solids, Dissolved	mg/L	0.0000	25.0			276	50.0	40.0 to 60.0			0.914	5.00
BB05066	Fluoride	mg/L	0.0339	0.0500	2.50	2.65	0.0318	2.65	2.25 to 2.75	106	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO

Location Code: WMWGREAP
Collected: 3/8/21 12:38
Customer ID:
Submittal Date: 3/10/21 14:00

Laboratory ID Number: BB05064

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 12:51		1.015	0.658	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 14:45		10.15	47.1	mg/L	0.70035	4.06	
* Iron, Total	3/30/21 11:18	3/31/21 12:51		1.015	0.0191	mg/L	0.008120	0.0406	J
* Lithium, Total	3/30/21 11:18	3/31/21 12:51		1.015	0.0991	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/30/21 11:18	3/31/21 12:51		1.015	18.0	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 12:51		1.015	15.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/30/21 10:45	3/30/21 13:34		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 07:40	3/15/21 09:53		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 07:40	3/15/21 09:53		1.015	0.000339	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 07:40	3/15/21 09:53		1.015	0.0523	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 07:40	3/15/21 09:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 07:40	3/15/21 09:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 07:40	3/15/21 09:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 07:40	3/15/21 09:53		1.015	0.00155	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 07:40	3/15/21 09:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 07:40	3/15/21 09:53		1.015	0.0761	mg/L	0.000068	0.000203	
* Potassium, Total	3/12/21 07:40	3/15/21 09:53		1.015	4.67	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 07:40	3/15/21 13:57		5.075	1.59	mg/L	0.000340	0.001015	
* Selenium, Total	3/12/21 07:40	3/15/21 09:53		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 07:40	3/15/21 09:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/12/21 14:20	3/15/21 13:44		5.075	1.72	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/18/21 10:10	3/18/21 10:31		1	130	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	282	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/8/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO

Location Code: WMWGREAP
Collected: 3/8/21 12:38
Customer ID:
Submittal Date: 3/10/21 14:00

Laboratory ID Number: BB05064

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:10	3/18/21 10:31		1	130	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:10	3/18/21 10:31		1	0.12	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 11:11	3/11/21 11:11		1	8.51	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:50	3/11/21 14:50		1	0.187	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:42	3/16/21 10:42		5	96.1	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/8/21 12:35	3/8/21 12:35			436.20	uS/cm			FA
pH	3/8/21 12:35	3/8/21 12:35			6.86	SU			FA
Temperature	3/8/21 12:35	3/8/21 12:35			20.02	C			FA
Turbidity	3/8/21 12:35	3/8/21 12:35			2	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/8/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 12:38

Customer ID:

Delivery Date: 3/10/21 14:00

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BB05064

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05066	Cadmium, Total	mg/L	0.0000000	0.000147	0.10	0.0982	0.106	0.101	0.0850 to 0.115	98.2	70.0 to 130	7.64	20.0
BB05066	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.0964	0.108	0.0961	0.0850 to 0.115	96.4	70.0 to 130	11.4	20.0
BB05066	Iron, Total	mg/L	0.000960	0.0176	0.2	0.201	0.204	0.207	0.170 to 0.230	100	70.0 to 130	1.70	20.0
BB05066	Thallium, Total	mg/L	-0.000175	0.000147	0.10	0.100	0.0994	0.102	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BB05065	Manganese, Dissolved	mg/L	-0.0000064	0.000147	0.10	1.83	1.84	0.0974	0.0850 to 0.115	95.3	70.0 to 130	0.479	20.0
BB05066	Barium, Total	mg/L	-0.0000114	0.000200	0.10	0.0954	0.104	0.0974	0.0850 to 0.115	95.4	70.0 to 130	8.63	20.0
BB05066	Chromium, Total	mg/L	-0.0000642	0.000440	0.10	0.102	0.111	0.102	0.0850 to 0.115	102	70.0 to 130	8.45	20.0
BB05066	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.199	0.200	0.202	0.170 to 0.230	99.4	70.0 to 130	0.776	20.0
BB05066	Boron, Total	mg/L	0.00840	0.0650	1.00	1.00	1.02	1.02	0.850 to 1.15	100	70.0 to 130	2.13	20.0
BB05066	Mercury, Total by CVAA	mg/L	0.0000618	0.000500	0.004	0.00426	0.00422	0.00423	0.00340 to 0.00460	106	70.0 to 130	0.943	20.0
BB05066	Lead, Total	mg/L	0.0000064	0.000147	0.10	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BB05066	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.0943	0.102	0.0937	0.0850 to 0.115	94.3	70.0 to 130	7.85	20.0
BB05066	Arsenic, Total	mg/L	0.0000555	0.000147	0.10	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB05066	Beryllium, Total	mg/L	0.0000175	0.000880	0.10	0.0975	0.103	0.103	0.0850 to 0.115	97.5	70.0 to 130	5.49	20.0
BB05066	Potassium, Total	mg/L	0.00183	0.367	10.0	10.2	10.4	9.92	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BB05066	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.93	4.96	5.00	4.25 to 5.75	98.6	70.0 to 130	0.672	20.0
BB05066	Selenium, Total	mg/L	0.0000828	0.00100	0.10	0.101	0.107	0.0986	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BB05065	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.208	0.208	0.207	0.170 to 0.230	104	70.0 to 130	0.0221	20.0
BB05066	Cobalt, Total	mg/L	-0.000206	0.000147	0.10	0.106	0.115	0.107	0.0850 to 0.115	106	70.0 to 130	8.14	20.0
BB05066	Manganese, Total	mg/L	-0.0000006	0.000147	0.10	0.102	0.110	0.102	0.0850 to 0.115	102	70.0 to 130	7.55	20.0
BB05066	Calcium, Total	mg/L	0.0460	0.152	5.00	5.02	5.08	5.20	4.25 to 5.75	100	70.0 to 130	1.18	20.0
BB05066	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.99	5.04	5.09	4.25 to 5.75	99.8	70.0 to 130	0.959	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/8/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 12:38

Customer ID:

Delivery Date: 3/10/21 14:00

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BB05064

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05066	Fluoride	mg/L	0.0339	0.0500	2.50	2.65	0.0318	2.65	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05066	Sulfate	mg/L	-0.154	0.500	20.0	18.8	-0.270	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05066	Chloride	mg/L	-0.0232	0.500	10.0	9.83	0.130	10.1	9.00 to 11.0	98.3	80.0 to 120	0.00	20.0
BB05065	Alkalinity, Total as CaCO3	mg/L					141	52.1	45.0 to 55.0			1.41	10.0
BB05065	Solids, Dissolved	mg/L	0.0000	25.0			276	50.0	40.0 to 60.0			0.914	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/8/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO DUP

Location Code: WMWGREAP
Collected: 3/8/21 12:38
Customer ID:
Submittal Date: 3/10/21 14:00

Laboratory ID Number: BB05065

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 12:55		1.015	0.660	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 14:48		10.15	48.2	mg/L	0.70035	4.06	
* Iron, Total	3/30/21 11:18	3/31/21 12:55		1.015	0.0191	mg/L	0.008120	0.0406	J
* Lithium, Total	3/30/21 11:18	3/31/21 12:55		1.015	0.102	mg/L	0.007105	0.01999956	
* Magnesium, Total	3/30/21 11:18	3/31/21 12:55		1.015	17.9	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 12:55		1.015	15.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 13:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 07:40	3/15/21 09:56		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 07:40	3/15/21 09:56		1.015	0.000259	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 07:40	3/15/21 09:56		1.015	0.0535	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 07:40	3/15/21 09:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 07:40	3/15/21 09:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 07:40	3/15/21 09:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 07:40	3/15/21 09:56		1.015	0.00154	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 07:40	3/15/21 09:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 07:40	3/15/21 09:56		1.015	0.0742	mg/L	0.000068	0.000203	
* Potassium, Total	3/12/21 07:40	3/15/21 09:56		1.015	4.64	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 07:40	3/15/21 14:00		5.075	1.75	mg/L	0.000340	0.001015	
* Selenium, Total	3/12/21 07:40	3/15/21 09:56		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 07:40	3/15/21 09:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 13:46		5.075	1.74	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:10	3/18/21 10:31		1	143	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	271	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/8/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO DUP

Location Code: WMWGREAP
Collected: 3/8/21 12:38
Customer ID:
Submittal Date: 3/10/21 14:00

Laboratory ID Number: BB05065

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:10	3/18/21 10:31		1	143	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:10	3/18/21 10:31		1	0.14	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 11:12	3/11/21 11:12		1	8.48	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 14:51	3/11/21 14:51		1	0.184	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:44	3/16/21 10:44		5	97.7	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/8/21 12:35	3/8/21 12:35			436.20	uS/cm			FA
pH	3/8/21 12:35	3/8/21 12:35			6.86	SU			FA
Temperature	3/8/21 12:35	3/8/21 12:35			20.02	C			FA
Turbidity	3/8/21 12:35	3/8/21 12:35			2	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/8/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 12:38

Customer ID:

Delivery Date: 3/10/21 14:00

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BB05065

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05066	Cadmium, Total	mg/L	0.0000000	0.000147	0.10	0.0982	0.106	0.101	0.0850 to 0.115	98.2	70.0 to 130	7.64	20.0
BB05066	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.0964	0.108	0.0961	0.0850 to 0.115	96.4	70.0 to 130	11.4	20.0
BB05066	Boron, Total	mg/L	0.00840	0.0650	1.00	1.00	1.02	1.02	0.850 to 1.15	100	70.0 to 130	2.13	20.0
BB05066	Mercury, Total by CVAA	mg/L	0.0000618	0.000500	0.004	0.00426	0.00422	0.00423	0.00340 to 0.00460	106	70.0 to 130	0.943	20.0
BB05066	Lead, Total	mg/L	0.0000064	0.000147	0.10	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BB05066	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.0943	0.102	0.0937	0.0850 to 0.115	94.3	70.0 to 130	7.85	20.0
BB05065	Manganese, Dissolved	mg/L	-0.0000064	0.000147	0.10	1.83	1.84	0.0974	0.0850 to 0.115	95.3	70.0 to 130	0.479	20.0
BB05066	Barium, Total	mg/L	-0.0000114	0.000200	0.10	0.0954	0.104	0.0974	0.0850 to 0.115	95.4	70.0 to 130	8.63	20.0
BB05066	Chromium, Total	mg/L	-0.0000642	0.000440	0.10	0.102	0.111	0.102	0.0850 to 0.115	102	70.0 to 130	8.45	20.0
BB05066	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.199	0.200	0.202	0.170 to 0.230	99.4	70.0 to 130	0.776	20.0
BB05066	Iron, Total	mg/L	0.000960	0.0176	0.2	0.201	0.204	0.207	0.170 to 0.230	100	70.0 to 130	1.70	20.0
BB05066	Thallium, Total	mg/L	-0.000175	0.000147	0.10	0.100	0.0994	0.102	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BB05066	Arsenic, Total	mg/L	0.0000555	0.000147	0.10	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB05066	Beryllium, Total	mg/L	0.0000175	0.000880	0.10	0.0975	0.103	0.103	0.0850 to 0.115	97.5	70.0 to 130	5.49	20.0
BB05066	Potassium, Total	mg/L	0.00183	0.367	10.0	10.2	10.4	9.92	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BB05066	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.93	4.96	5.00	4.25 to 5.75	98.6	70.0 to 130	0.672	20.0
BB05066	Selenium, Total	mg/L	0.0000828	0.00100	0.10	0.101	0.107	0.0986	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BB05066	Calcium, Total	mg/L	0.0460	0.152	5.00	5.02	5.08	5.20	4.25 to 5.75	100	70.0 to 130	1.18	20.0
BB05066	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.99	5.04	5.09	4.25 to 5.75	99.8	70.0 to 130	0.959	20.0
BB05065	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.208	0.208	0.207	0.170 to 0.230	104	70.0 to 130	0.0221	20.0
BB05066	Cobalt, Total	mg/L	-0.000206	0.000147	0.10	0.106	0.115	0.107	0.0850 to 0.115	106	70.0 to 130	8.14	20.0
BB05066	Manganese, Total	mg/L	-0.0000006	0.000147	0.10	0.102	0.110	0.102	0.0850 to 0.115	102	70.0 to 130	7.55	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/8/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 12:38

Customer ID:

Delivery Date: 3/10/21 14:00

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BB05065

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05066	Fluoride	mg/L	0.0339	0.0500	2.50	2.65	0.0318	2.65	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05066	Sulfate	mg/L	-0.154	0.500	20.0	18.8	-0.270	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05066	Chloride	mg/L	-0.0232	0.500	10.0	9.83	0.130	10.1	9.00 to 11.0	98.3	80.0 to 120	0.00	20.0
BB05065	Alkalinity, Total as CaCO3	mg/L					141	52.1	45.0 to 55.0			1.41	10.0
BB05065	Solids, Dissolved	mg/L	0.0000	25.0			276	50.0	40.0 to 60.0			0.914	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/8/21

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/8/21 13:20
Customer ID:
Submittal Date: 3/10/21 14:00

Laboratory ID Number: BB05066

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 12:58		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 12:58		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 12:58		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 12:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 12:58		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 12:58		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 07:40	3/15/21 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 11:14	3/11/21 11:14		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 14:52	3/11/21 14:52		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 10:45	3/16/21 10:45		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/8/21 13:20

Customer ID:

Delivery Date: 3/10/21 14:00

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05066

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05066	Cadmium, Total	mg/L	0.0000000	0.000147	0.10	0.0982	0.106	0.101	0.0850 to 0.115	98.2	70.0 to 130	7.64	20.0
BB05066	Molybdenum, Total	mg/L	0.0000038	0.000147	0.10	0.0964	0.108	0.0961	0.0850 to 0.115	96.4	70.0 to 130	11.4	20.0
BB05066	Calcium, Total	mg/L	0.0460	0.152	5.00	5.02	5.08	5.20	4.25 to 5.75	100	70.0 to 130	1.18	20.0
BB05066	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.99	5.04	5.09	4.25 to 5.75	99.8	70.0 to 130	0.959	20.0
BB05066	Iron, Total	mg/L	0.000960	0.0176	0.2	0.201	0.204	0.207	0.170 to 0.230	100	70.0 to 130	1.70	20.0
BB05066	Thallium, Total	mg/L	-0.000175	0.000147	0.10	0.100	0.0994	0.102	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BB05066	Barium, Total	mg/L	-0.0000114	0.000200	0.10	0.0954	0.104	0.0974	0.0850 to 0.115	95.4	70.0 to 130	8.63	20.0
BB05066	Chromium, Total	mg/L	-0.0000642	0.000440	0.10	0.102	0.111	0.102	0.0850 to 0.115	102	70.0 to 130	8.45	20.0
BB05066	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.199	0.200	0.202	0.170 to 0.230	99.4	70.0 to 130	0.776	20.0
BB05066	Boron, Total	mg/L	0.00840	0.0650	1.00	1.00	1.02	1.02	0.850 to 1.15	100	70.0 to 130	2.13	20.0
BB05066	Mercury, Total by CVAA	mg/L	0.0000618	0.000500	0.004	0.00426	0.00422	0.00423	0.00340 to 0.00460	106	70.0 to 130	0.943	20.0
BB05066	Lead, Total	mg/L	0.0000064	0.000147	0.10	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BB05066	Antimony, Total	mg/L	0.000121	0.00100	0.10	0.0943	0.102	0.0937	0.0850 to 0.115	94.3	70.0 to 130	7.85	20.0
BB05066	Cobalt, Total	mg/L	-0.000206	0.000147	0.10	0.106	0.115	0.107	0.0850 to 0.115	106	70.0 to 130	8.14	20.0
BB05066	Manganese, Total	mg/L	-0.0000006	0.000147	0.10	0.102	0.110	0.102	0.0850 to 0.115	102	70.0 to 130	7.55	20.0
BB05066	Arsenic, Total	mg/L	0.0000555	0.000147	0.10	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BB05066	Beryllium, Total	mg/L	0.0000175	0.000880	0.10	0.0975	0.103	0.103	0.0850 to 0.115	97.5	70.0 to 130	5.49	20.0
BB05066	Potassium, Total	mg/L	0.00183	0.367	10.0	10.2	10.4	9.92	8.50 to 11.5	102	70.0 to 130	1.94	20.0
BB05066	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.93	4.96	5.00	4.25 to 5.75	98.6	70.0 to 130	0.672	20.0
BB05066	Selenium, Total	mg/L	0.0000828	0.00100	0.10	0.101	0.107	0.0986	0.0850 to 0.115	101	70.0 to 130	5.77	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/8/21 13:20

Customer ID:

Delivery Date: 3/10/21 14:00

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05066

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05066	Fluoride	mg/L	0.0339	0.0500	2.50	2.65	0.0318	2.65	2.25 to 2.75	106	80.0 to 120	0.00	20.0
BB05065	Solids, Dissolved	mg/L	0.0000	25.0			276	50.0	40.0 to 60.0			0.914	5.00
BB05066	Chloride	mg/L	-0.0232	0.500	10.0	9.83	0.130	10.1	9.00 to 11.0	98.3	80.0 to 120	0.00	20.0
BB05066	Sulfate	mg/L	-0.154	0.500	20.0	18.8	-0.270	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0

Comments:

Definitions

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.
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 Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	Dallas Gentry		Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
FB-1	03/08/2021	12:10	4	Field Blank		BB05063
MW-46HO	03/08/2021	12:38	6	Groundwater		BB05064
MW-46HO dup	03/08/2021	12:38	6	Sample Duplicate		BB05065
EB-1	03/08/2021	13:20	4	Equipment Blank		BB05066

Relinquished By	Received By	Date/Time
		03/09/2021 15:23
		03/10/2021 10:26

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>		
Turbidity ID	3901-20010-2-2		Cooler Temp	0.2 degrees C
Sample Event	1312		Thermometer ID	5408-27568-2-2
			pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene 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
Adding descriptions to COC. LBM 3/10/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
FB-1	03/08/2021	12:10	1	Field Blank		BB05067
MW-46HO	03/08/2021	12:38	3	Groundwater		BB05068
MW-46HO dup	03/08/2021	12:38	1	Sample Duplicate		BB05069
EB-1	03/08/2021	13:20	1	Equipment Blank		BB05070

Relinquished By	Received By	Date/Time
		03/09/2021 15:23
		03/10/2021 10:24

SmarTroll ID	7586-41442-5-1
Turbidity ID	3901-20010-2-2
Sample Event	1312

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL

April 13, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: GREENE COUNTY WMWGREAP_1312
Pace Project No.: 92527910

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

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 #: 9526

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: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92527910001	BB05067 FB-1	Water	03/08/21 12:10	03/15/21 10:00
92527910002	BB05068 MW-46HO	Water	03/08/21 12:38	03/15/21 10:00
92527910003	BB05068 MW-46HO MS	Water	03/08/21 12:38	03/15/21 10:00
92527910004	BB05068 MW-46HO MSD	Water	03/08/21 12:38	03/15/21 10:00
92527910005	BB05069 MW-46HO DUP	Water	03/08/21 12:38	03/15/21 10:00
92527910006	BB05070 EB-1	Water	03/08/21 13:20	03/15/21 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1312
Pace Project No.: 92527910

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527910001	BB05067 FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527910002	BB05068 MW-46HO	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527910003	BB05068 MW-46HO MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92527910004	BB05068 MW-46HO MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92527910005	BB05069 MW-46HO DUP	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527910006	BB05070 EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: April 13, 2021

General Information:

6 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: April 13, 2021

General Information:

6 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: April 13, 2021

General Information:

4 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Sample: BB05067 FB-1 **Lab ID: 92527910001** Collected: 03/08/21 12:10 Received: 03/15/21 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	-0.0356U ± 0.123 (0.382) C:95% T:NA	pCi/L	04/12/21 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.143U ± 0.307 (0.681) C:70% T:86%	pCi/L	04/12/21 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.143U ± 0.430 (1.06)	pCi/L	04/12/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Sample: BB05068 MW-46HO **Lab ID: 92527910002** Collected: 03/08/21 12:38 Received: 03/15/21 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	-0.0883U ± 0.133 (0.439) C:94% T:NA	pCi/L	04/12/21 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.291U ± 0.372 (0.792) C:70% T:85%	pCi/L	04/12/21 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.291U ± 0.505 (1.23)	pCi/L	04/12/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Sample: BB05068 MW-46HO MS **Lab ID: 92527910003** Collected: 03/08/21 12:38 Received: 03/15/21 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	110.27 %REC ± NA (NA) C:NA T:NA	pCi/L	04/12/21 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	96.68 %REC +/- NA (NA) C:NA T:NA	pCi/L	04/12/21 11:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1312
Pace Project No.: 92527910

Sample: BB05068 MW-46HO MSD **Lab ID: 92527910004** Collected: 03/08/21 12:38 Received: 03/15/21 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	92.85 %REC 17.15RPD ± NA (NA) C:NA T:NA	pCi/L	04/12/21 08:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	119.41 %REC 21.04 RPD +/- NA (NA) C:NA T:NA	pCi/L	04/12/21 11:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Sample: BB05069 MW-46HO DUP **Lab ID: 92527910005** Collected: 03/08/21 12:38 Received: 03/15/21 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	0.0558U ± 0.145 (0.352) C:94% T:NA	pCi/L	04/12/21 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.954 ± 0.465 (0.788) C:67% T:82%	pCi/L	04/12/21 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01U ± 0.610 (1.14)	pCi/L	04/12/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

Sample: BB05070 EB-1 **Lab ID: 92527910006** Collected: 03/08/21 13:20 Received: 03/15/21 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	0.206U ± 0.353 (0.800) C:99% T:NA	pCi/L	04/12/21 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0455U ± 0.312 (0.740) C:71% T:91%	pCi/L	04/12/21 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.206U ± 0.665 (1.54)	pCi/L	04/12/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

QC Batch: 439305

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527910001, 92527910002, 92527910003, 92527910004, 92527910005, 92527910006

METHOD BLANK: 2120880

Matrix: Water

Associated Lab Samples: 92527910001, 92527910002, 92527910003, 92527910004, 92527910005, 92527910006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.389 ± 0.401 (0.833) C:73% T:79%	pCi/L	04/12/21 11:32	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

QC Batch: 439303

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527910001, 92527910002, 92527910003, 92527910004, 92527910005, 92527910006

METHOD BLANK: 2120877

Matrix: Water

Associated Lab Samples: 92527910001, 92527910002, 92527910003, 92527910004, 92527910005, 92527910006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.231 ± 0.218 (0.421) C:99% T:NA	pCi/L	04/12/21 07:58	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GREENE COUNTY WMWGREAP_1312

Pace Project No.: 92527910

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE COUNTY WMWGREAP_1312
Pace Project No.: 92527910

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527910001	BB05067 FB-1	EPA 9315	439303		
92527910002	BB05068 MW-46HO	EPA 9315	439303		
92527910003	BB05068 MW-46HO MS	EPA 9315	439303		
92527910004	BB05068 MW-46HO MSD	EPA 9315	439303		
92527910005	BB05069 MW-46HO DUP	EPA 9315	439303		
92527910006	BB05070 EB-1	EPA 9315	439303		
92527910001	BB05067 FB-1	EPA 9320	439305		
92527910002	BB05068 MW-46HO	EPA 9320	439305		
92527910003	BB05068 MW-46HO MS	EPA 9320	439305		
92527910004	BB05068 MW-46HO MSD	EPA 9320	439305		
92527910005	BB05069 MW-46HO DUP	EPA 9320	439305		
92527910006	BB05070 EB-1	EPA 9320	439305		
92527910001	BB05067 FB-1	Total Radium Calculation	442902		
92527910002	BB05068 MW-46HO	Total Radium Calculation	442902		
92527910005	BB05069 MW-46HO DUP	Total Radium Calculation	442902		
92527910006	BB05070 EB-1	Total Radium Calculation	442902		

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Client Name: Alabama Power Project

WO#: **92527910**



Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 955106700972

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used NA Type of Ice: Wet Blue None

Cooler Temperature Observed Temp °C Correction Factor: °C Final Temp: °C
Temp should be above freezing to 6°C

pH paper Lot# 1GD1101 Date and Initials of person examining contents: MD 3/10/21

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>PHC2</u>
All containers meet method preservation requirements.	/			Initial when completed: <u>MD</u> Date/time of preservation: <u> </u>
				Lot # of added preservative: <u> </u>
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: <u>MD</u> Date: <u>3/10/21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____ Contacted By: _____
Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

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: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: lbmicki@southemco.com Phone: 205-654-6197 Fax: Requested Due Date: 28 days

Section B Required Project Information: Report To: Laura Micki# Copy To: Brooke Caton & Renee Jernigan Purchase Order #: APC57570-0001 Project Name: Gorgas Pooled Upgrade Project Number: WMWGREAP 13012

Section C Invoice Information: Attention: Laura Micki# Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Page Quote: CCR Page Project Manager: Kevin Herring@pcosalabs.com Page Profile #: 13805

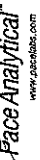
Regulatory Agency: AL State Location: AL

Page: 1 Of 1

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES										Analyses Test	Residual Chlorine (Y/N)	SAMPLE CONDITIONS															
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	EPA 9315	EPA 9320			Total Radium Sum	Matrix Spike/Matrix Spike D	TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)										
1	FB-1	GMG	GMG	GMG		3/8/2021	12:10	1		X								X	X	X																
2	BB95068	GMG	GMG	MMW-46-HO		3/8/2021	12:38	3		X								X	X	X																
3	BB95069	GMG	GMG	MMW-46-HO DUP		3/8/2021	12:38	1		X								X	X	X																
4	BB95070	GMG	GMG	EB-1		3/8/2021	13:20	1		X								X	X	X																
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				
ADDITIONAL COMMENTS															RELINQUISHED BY AFFILIATION	DATE	TIME	ACCEPTED BY AFFILIATION	DATE	TIME	SAMPLE CONDITIONS															
															Laura Micki# APC GTL	3/11/2021	14:20	NO	3/15/21	1050	NA	N	N	N	N	N	N	N								

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: _____
 DATE Signed: _____

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/19/2021
Worklist: 59400
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2120877
MB concentration:	0.231
M/B Counting Uncertainty:	0.216
MB MDC:	0.421
MB Numerical Performance Indicator:	2.10
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS59400	LCS059400
Count Date:	4/12/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.038
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.209
Target Conc. (pCi/L, g, F):	11.488
Uncertainty (Calculated):	0.138
Result (pCi/L, g, F):	11.430
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.122
Numerical Performance Indicator:	-0.10
Percent Recovery:	99.49%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	Pass
Lower % Recovery Limits:	125%
	75%

Duplicate Sample Assessment	
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Counting Uncertainty (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:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature: Robert M. [unclear]

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample I.D.	3/8/2021
Sample MS I.D.	92527912001
Sample MSD I.D.	92527912002
Spike I.D.:	19-033
MS/MSD Decay Corrected Concentration (pCi/mL):	24.039
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.206
MS Target Conc. (pCi/L, g, F):	23.367
MSD Aliquot (L, g, F):	0.217
MSD Target Conc. (pCi/L, g, F):	22.121
MS Spike Uncertainty (calculated):	0.280
MSD Spike Uncertainty (calculated):	0.265
Sample Result:	0.267
Sample Result Counting Uncertainty (pCi/L, g, F):	0.261
Sample Matrix Spike Result:	22.706
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.587
Sample Matrix Spike Duplicate Result:	22.914
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.526
MS Numerical Performance Indicator:	-1.114
MSD Numerical Performance Indicator:	0.656
MS Percent Recovery:	96.03%
MSD Percent Recovery:	102.38%
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.	MS/MSD 2
Sample MS I.D.	3/8/2021
Sample MSD I.D.	92527910002
Sample Matrix Spike Result:	92527910003
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	19-033
Sample Matrix Spike Duplicate Result:	24.039
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	0.20
Duplicate Numerical Performance Indicator:	0.206
Duplicate Status vs Numerical Indicator:	22.608
Duplicate Status vs RPD:	0.213
% RPD Limit:	22.545
	0.271
	0.271
	-0.088
	0.133
	24.842
	1.631
	20.845
	1.467
	2.743
	-2.108
	110.27%
	92.85%
	N/A
	N/A
	Pass
	Pass
	125%
	75%

Handwritten signature: Amy [unclear]

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 4/7/2021
Worksheet: 59401
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2120880
MB Concentration:	0.389
MB 2 Sigma CSU:	0.401
MB MDC:	0.833
MB Numerical Performance Indicator:	1.90
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	N
Count Date:	4/12/2021	LCSD59401	
Spike I.D.:	21-003	LCSD59401	
Decay Corrected Spike Concentration (pCi/mL):	38.104		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.811		
Target Conc. (pCi/L, g, F):	4.700		
Uncertainty (Calculated):	0.230		
Result (pCi/L, g, F):	5.000		
LCSD/MSD 2 Sigma CSU (pCi/L, g, F):	1.136		
Numerical Performance Indicator:	0.51		
Percent Recovery:	106.38%		
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 LCSD/MSD in the space below.
Sample I.D.:	Sample I.D.:	
Duplicate Sample I.D.:	Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:	
Duplicate RPD:	Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	Duplicate Status vs RPD:	
% RPD Limit:	% RPD Limit:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/8/2021		
Sample I.D.:	92527912001		
Sample MS I.D.:	92527912002		
Sample MSD I.D.:	92527912003		
Spike I.D.:	21-003		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.546		
Spike Volume Used in MS (mL):	0.20		
MS Aliquot (L, g, F):	0.817		
MS Target Conc. (pCi/L, g, F):	9.431		
MSD Aliquot (L, g, F):	0.819		
MSD Target Conc. (pCi/L, g, F):	9.412		
MS Spike Uncertainty (calculated):	0.462		
MSD Spike Uncertainty (calculated):	0.461		
Sample Result:	1.788		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.573		
Sample Matrix Spike Result:	12.034		
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.356		
Matrix Spike Duplicate Result:	10.827		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.135		
MS Numerical Performance Indicator:	0.647		
MSD Numerical Performance Indicator:	-0.323		
MS Percent Recovery:	108.64%		
MSD Percent Recovery:	96.04%		
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		MS/MSD 1	MS/MSD 2
Sample I.D.:	92527912001		
Sample MS I.D.:	92527912002		
Sample MSD I.D.:	92527912003		
Matrix Spike Result:	12.034		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.356		
Matrix Matrix Spike Duplicate Result:	10.827		
Matrix Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.135		
Duplicate Numerical Performance Indicator:	0.744		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	12.31%		
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:

MAN/2/21

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



Greene County Ash Pond

2021 MW-52HO (Land Trust) 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).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification 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
205-664-6001

Analytical Report



Sample Group : WMWGREAP_1313

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

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

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

April 16, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2021. 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, 2021

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkiff@southernco.com, c=US
Date: 2021.04.16 14:02:33 -05'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.04.19 08:07:47 -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

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	695229	WMWGREAP_1313
BB05072	695229	WMWGREAP_1313
BB05073	695229	WMWGREAP_1313
BB05074	695229	WMWGREAP_1313

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 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.
- 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. 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>
BB05071	Calcium & Sodium	10.15
BB05072	Calcium & Sodium	10.15

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

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	695212	WMWGREAP_1313
BB05072	695212	WMWGREAP_1313

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 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 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.
 - 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.

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	694408	WMWGREAP_1313
BB05072	694408	WMWGREAP_1313
BB05073	694408	WMWGREAP_1313
BB05074	694408	WMWGREAP_1313

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.

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. 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>
BB05071	Manganese	10.15
BB05072	Manganese	10.15

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

Case Narrative

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	694391	WMWGREAP_1313
BB05072	694391	WMWGREAP_1313

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.

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 invalid.
 - BB05072 Manganese MS/MSD spike level was less than 30% of the sample nominal concentration.
 - 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>
BB05071	Manganese	10.15
BB05072	Manganese	10.15

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

Mercury

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	694248	WMWGREAP_1313
BB05072	694248	WMWGREAP_1313
BB05073	694248	WMWGREAP_1313
BB05074	694248	WMWGREAP_1313

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.
 8. The raw data results are shown with dilution factors included.

TDS

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	693614	WMWGREAP_1313
BB05072	693614	WMWGREAP_1313
BB05073	693614	WMWGREAP_1313
BB05074	693614	WMWGREAP_1313

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB05073
 - BB05074

Anions

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	693768, 693776, & 694006	WMWGREAP_1313
BB05072	693768, 693776, & 694006	WMWGREAP_1313
BB05073	693768, 693776, & 694006	WMWGREAP_1313
BB05074	693768, 693776, & 694006	WMWGREAP_1313

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4.
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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
 - A sample duplicate was analyzed with each batch. 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>
BB05071	Chloride & Sulfate	10 & 4
BB05072	Chloride & Sulfate	10 & 4

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

Case Narrative

Alkalinity

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	694172 & 694173	WMWGREAP_1313
BB05072	694172 & 694173	WMWGREAP_1313

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were 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.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 3/8/21 13:05
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:15		1.015	1.25	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 14:51		10.15	63.3	mg/L	0.70035	4.06	
* Iron, Total	3/30/21 11:18	3/31/21 13:15		1.015	0.372	mg/L	0.008120	0.0406	
* Lithium, Total	3/30/21 11:18	3/31/21 13:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:15		1.015	15.3	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 14:51		10.15	78.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 13:49		1.015	0.321	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:06	3/15/21 10:38		1.015	0.000270	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 08:06	3/15/21 10:38		1.015	0.131	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:06	3/15/21 10:38		1.015	0.000227	mg/L	0.000068	0.000203	
* Chromium, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:06	3/15/21 10:38		1.015	0.0153	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:06	3/15/21 10:38		1.015	3.80	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:06	3/15/21 14:21		10.15	10.5	mg/L	0.000680	0.00203	
* Selenium, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 14:03		10.15	10.3	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:32	3/18/21 10:55		1	216	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	469	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 3/8/21 13:05
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:32	3/18/21 10:55		1	216	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:32	3/18/21 10:55		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:26	3/11/21 11:26		10	90.0	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:03	3/11/21 15:03		1	0.0628	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:57	3/16/21 10:57		4	56.9	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/8/21 13:00	3/8/21 13:00			858.73	uS/cm			FA
pH	3/8/21 13:00	3/8/21 13:00			5.98	SU			FA
Temperature	3/8/21 13:00	3/8/21 13:00			18.03	C			FA
Turbidity	3/8/21 13:00	3/8/21 13:00			1.61	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/8/21 13:05
Customer ID:
Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BB05071

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05074	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	5.03	5.20	4.25 to 5.75	98.4	70.0 to 130	2.13	20.0
BB05074	Chromium, Total	mg/L	-0.0000444	0.000440	0.10	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.376	20.0
BB05074	Iron, Total	mg/L	0.000960	0.0176	0.2	0.198	0.201	0.207	0.170 to 0.230	99.0	70.0 to 130	1.65	20.0
BB05074	Potassium, Total	mg/L	0.0125	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.457	20.0
BB05074	Beryllium, Total	mg/L	0.0000229	0.000880	0.10	0.0972	0.0977	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.519	20.0
BB05074	Cadmium, Total	mg/L	0.000012	0.000147	0.10	0.1000	0.0966	0.105	0.0850 to 0.115	100	70.0 to 130	3.42	20.0
BB05074	Antimony, Total	mg/L	0.000191	0.00100	0.10	0.0975	0.0968	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.674	20.0
BB05074	Selenium, Total	mg/L	0.0000795	0.00100	0.10	0.0983	0.100	0.103	0.0850 to 0.115	98.3	70.0 to 130	2.16	20.0
BB05072	Manganese, Dissolved	mg/L	-0.0000018	0.000147	0.10	11.0	10.6	0.102	0.0850 to 0.115	765	70.0 to 130	3.51	20.0
BB05074	Arsenic, Total	mg/L	0.000069	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	2.16	20.0
BB05074	Mercury, Total by CVAA	mg/L	0.0000611	0.000500	0.004	0.00422	0.00431	0.00423	0.00340 to 0.00460	106	70.0 to 130	2.11	20.0
BB05074	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.200	0.200	0.202	0.170 to 0.230	99.9	70.0 to 130	0.244	20.0
BB05074	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.93	4.98	5.09	4.25 to 5.75	98.6	70.0 to 130	0.976	20.0
BB05074	Manganese, Total	mg/L	0.0000474	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.306	20.0
BB05074	Lead, Total	mg/L	0.0000084	0.000147	0.10	0.107	0.104	0.103	0.0850 to 0.115	107	70.0 to 130	2.59	20.0
BB05074	Boron, Total	mg/L	0.00840	0.0650	1.00	0.989	1.01	1.02	0.850 to 1.15	98.9	70.0 to 130	1.94	20.0
BB05074	Molybdenum, Total	mg/L	0.0000121	0.000147	0.10	0.0953	0.0972	0.101	0.0850 to 0.115	95.3	70.0 to 130	1.93	20.0
BB05074	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.98	5.00	5.00	4.25 to 5.75	99.7	70.0 to 130	0.358	20.0
BB05074	Thallium, Total	mg/L	-0.000177	0.000147	0.10	0.105	0.101	0.102	0.0850 to 0.115	105	70.0 to 130	3.43	20.0
BB05072	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.520	0.516	0.207	0.170 to 0.230	101	70.0 to 130	0.780	20.0
BB05074	Cobalt, Total	mg/L	-0.000205	0.000147	0.10	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.103	20.0
BB05074	Barium, Total	mg/L	-0.0000015	0.000200	0.10	0.0999	0.0981	0.102	0.0850 to 0.115	99.9	70.0 to 130	1.82	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 13:05

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BB05071

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05072	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			0.324	5.00
BB05074	Chloride	mg/L	-0.0198	1.00	10.0	10.2	0.0451	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05074	Sulfate	mg/L	-0.220	1.00	20.0	19.0	-0.321	19.1	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0
BB05072	Alkalinity, Total as CaCO3	mg/L					217	50.3	45.0 to 55.0			1.86	10.0
BB05074	Fluoride	mg/L	0.0348	0.100	2.50	2.61	0.0265	2.65	2.25 to 2.75	104	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP
Collected: 3/8/21 13:05
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:18		1.015	1.25	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 14:55		10.15	63.6	mg/L	0.70035	4.06	
* Iron, Total	3/30/21 11:18	3/31/21 13:18		1.015	0.369	mg/L	0.008120	0.0406	
* Lithium, Total	3/30/21 11:18	3/31/21 13:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:18		1.015	15.3	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 14:55		10.15	78.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 13:53		1.015	0.317	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.000271	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.128	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.000297	mg/L	0.000068	0.000203	
* Chromium, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.000229	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.0160	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:06	3/15/21 10:41		1.015	3.85	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:06	3/15/21 14:24		10.15	10.5	mg/L	0.000680	0.00203	
* Selenium, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 14:05		10.15	10.2	mg/L	0.000680	0.00203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:32	3/18/21 10:55		1	213	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	461	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP

Collected: 3/8/21 13:05

Customer ID:

Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:32	3/18/21 10:55		1	213	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:32	3/18/21 10:55		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:28	3/11/21 11:28		10	87.0	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:05	3/11/21 15:05		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:58	3/16/21 10:58		4	55.6	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/8/21 13:00	3/8/21 13:00			858.73	uS/cm			FA
pH	3/8/21 13:00	3/8/21 13:00			5.98	SU			FA
Temperature	3/8/21 13:00	3/8/21 13:00			18.03	C			FA
Turbidity	3/8/21 13:00	3/8/21 13:00			1.61	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 13:05

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BB05072

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05074	Barium, Total	mg/L	-0.0000015	0.000200	0.10	0.0999	0.0981	0.102	0.0850 to 0.115	99.9	70.0 to 130	1.82	20.0
BB05074	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	5.03	5.20	4.25 to 5.75	98.4	70.0 to 130	2.13	20.0
BB05074	Boron, Total	mg/L	0.00840	0.0650	1.00	0.989	1.01	1.02	0.850 to 1.15	98.9	70.0 to 130	1.94	20.0
BB05074	Molybdenum, Total	mg/L	0.0000121	0.000147	0.10	0.0953	0.0972	0.101	0.0850 to 0.115	95.3	70.0 to 130	1.93	20.0
BB05074	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.98	5.00	5.00	4.25 to 5.75	99.7	70.0 to 130	0.358	20.0
BB05074	Thallium, Total	mg/L	-0.000177	0.000147	0.10	0.105	0.101	0.102	0.0850 to 0.115	105	70.0 to 130	3.43	20.0
BB05074	Chromium, Total	mg/L	-0.0000444	0.000440	0.10	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.376	20.0
BB05074	Iron, Total	mg/L	0.000960	0.0176	0.2	0.198	0.201	0.207	0.170 to 0.230	99.0	70.0 to 130	1.65	20.0
BB05074	Potassium, Total	mg/L	0.0125	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.457	20.0
BB05074	Beryllium, Total	mg/L	0.0000229	0.000880	0.10	0.0972	0.0977	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.519	20.0
BB05074	Cadmium, Total	mg/L	0.000012	0.000147	0.10	0.1000	0.0966	0.105	0.0850 to 0.115	100	70.0 to 130	3.42	20.0
BB05074	Antimony, Total	mg/L	0.000191	0.00100	0.10	0.0975	0.0968	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.674	20.0
BB05074	Selenium, Total	mg/L	0.0000795	0.00100	0.10	0.0983	0.100	0.103	0.0850 to 0.115	98.3	70.0 to 130	2.16	20.0
BB05072	Manganese, Dissolved	mg/L	-0.0000018	0.000147	0.10	11.0	10.6	0.102	0.0850 to 0.115	765	70.0 to 130	3.51	20.0
BB05074	Arsenic, Total	mg/L	0.000069	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	2.16	20.0
BB05074	Mercury, Total by CVAA	mg/L	0.0000611	0.000500	0.004	0.00422	0.00431	0.00423	0.00340 to 0.00460	106	70.0 to 130	2.11	20.0
BB05074	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.200	0.200	0.202	0.170 to 0.230	99.9	70.0 to 130	0.244	20.0
BB05074	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.93	4.98	5.09	4.25 to 5.75	98.6	70.0 to 130	0.976	20.0
BB05074	Manganese, Total	mg/L	0.0000474	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.306	20.0
BB05074	Lead, Total	mg/L	0.0000084	0.000147	0.10	0.107	0.104	0.103	0.0850 to 0.115	107	70.0 to 130	2.59	20.0
BB05072	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.520	0.516	0.207	0.170 to 0.230	101	70.0 to 130	0.780	20.0
BB05074	Cobalt, Total	mg/L	-0.000205	0.000147	0.10	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.103	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 13:05

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BB05072

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB05072	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			0.324	5.00
BB05074	Sulfate	mg/L	-0.220	1.00	20.0	19.0	-0.321	19.1	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0
BB05074	Chloride	mg/L	-0.0198	1.00	10.0	10.2	0.0451	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05072	Alkalinity, Total as CaCO3	mg/L					217	50.3	45.0 to 55.0			1.86	10.0
BB05074	Fluoride	mg/L	0.0348	0.100	2.50	2.61	0.0265	2.65	2.25 to 2.75	104	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/8/21 13:50
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05073

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 08:06	3/15/21 10:43		1.015	0.000114	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 11:29	3/11/21 11:29		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 15:06	3/11/21 15:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 10:59	3/16/21 10:59		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 13:50

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05073

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05074	Barium, Total	mg/L	-0.0000015	0.000200	0.10	0.0999	0.0981	0.102	0.0850 to 0.115	99.9	70.0 to 130	1.82	20.0
BB05074	Cobalt, Total	mg/L	-0.000205	0.000147	0.10	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.103	20.0
BB05074	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	5.03	5.20	4.25 to 5.75	98.4	70.0 to 130	2.13	20.0
BB05074	Chromium, Total	mg/L	-0.0000444	0.000440	0.10	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.376	20.0
BB05074	Iron, Total	mg/L	0.000960	0.0176	0.2	0.198	0.201	0.207	0.170 to 0.230	99.0	70.0 to 130	1.65	20.0
BB05074	Potassium, Total	mg/L	0.0125	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.457	20.0
BB05074	Boron, Total	mg/L	0.00840	0.0650	1.00	0.989	1.01	1.02	0.850 to 1.15	98.9	70.0 to 130	1.94	20.0
BB05074	Molybdenum, Total	mg/L	0.0000121	0.000147	0.10	0.0953	0.0972	0.101	0.0850 to 0.115	95.3	70.0 to 130	1.93	20.0
BB05074	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.98	5.00	5.00	4.25 to 5.75	99.7	70.0 to 130	0.358	20.0
BB05074	Thallium, Total	mg/L	-0.000177	0.000147	0.10	0.105	0.101	0.102	0.0850 to 0.115	105	70.0 to 130	3.43	20.0
BB05074	Beryllium, Total	mg/L	0.0000229	0.000880	0.10	0.0972	0.0977	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.519	20.0
BB05074	Cadmium, Total	mg/L	0.000012	0.000147	0.10	0.1000	0.0966	0.105	0.0850 to 0.115	100	70.0 to 130	3.42	20.0
BB05074	Antimony, Total	mg/L	0.000191	0.00100	0.10	0.0975	0.0968	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.674	20.0
BB05074	Selenium, Total	mg/L	0.0000795	0.00100	0.10	0.0983	0.100	0.103	0.0850 to 0.115	98.3	70.0 to 130	2.16	20.0
BB05074	Arsenic, Total	mg/L	0.000069	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	2.16	20.0
BB05074	Mercury, Total by CVAA	mg/L	0.0000611	0.000500	0.004	0.00422	0.00431	0.00423	0.00340 to 0.00460	106	70.0 to 130	2.11	20.0
BB05074	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.200	0.200	0.202	0.170 to 0.230	99.9	70.0 to 130	0.244	20.0
BB05074	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.93	4.98	5.09	4.25 to 5.75	98.6	70.0 to 130	0.976	20.0
BB05074	Manganese, Total	mg/L	0.0000474	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.306	20.0
BB05074	Lead, Total	mg/L	0.0000084	0.000147	0.10	0.107	0.104	0.103	0.0850 to 0.115	107	70.0 to 130	2.59	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 13:50

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05073

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05074	Chloride	mg/L	-0.0198	1.00	10.0	10.2	0.0451	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05072	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			0.324	5.00
BB05074	Sulfate	mg/L	-0.220	1.00	20.0	19.0	-0.321	19.1	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0
BB05074	Fluoride	mg/L	0.0348	0.100	2.50	2.61	0.0265	2.65	2.25 to 2.75	104	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/8/21 14:00
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05074

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 08:06	3/15/21 10:46		1.015	0.0000744	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 11:30	3/11/21 11:30		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 15:07	3/11/21 15:07		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 11:00	3/16/21 11:00		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/8/21 14:00

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05074

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05074	Barium, Total	mg/L	-0.000015	0.000200	0.10	0.0999	0.0981	0.102	0.0850 to 0.115	99.9	70.0 to 130	1.82	20.0
BB05074	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	5.03	5.20	4.25 to 5.75	98.4	70.0 to 130	2.13	20.0
BB05074	Cobalt, Total	mg/L	-0.000205	0.000147	0.10	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.103	20.0
BB05074	Chromium, Total	mg/L	-0.0000444	0.000440	0.10	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.376	20.0
BB05074	Iron, Total	mg/L	0.000960	0.0176	0.2	0.198	0.201	0.207	0.170 to 0.230	99.0	70.0 to 130	1.65	20.0
BB05074	Potassium, Total	mg/L	0.0125	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.457	20.0
BB05074	Boron, Total	mg/L	0.00840	0.0650	1.00	0.989	1.01	1.02	0.850 to 1.15	98.9	70.0 to 130	1.94	20.0
BB05074	Molybdenum, Total	mg/L	0.0000121	0.000147	0.10	0.0953	0.0972	0.101	0.0850 to 0.115	95.3	70.0 to 130	1.93	20.0
BB05074	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.98	5.00	5.00	4.25 to 5.75	99.7	70.0 to 130	0.358	20.0
BB05074	Thallium, Total	mg/L	-0.000177	0.000147	0.10	0.105	0.101	0.102	0.0850 to 0.115	105	70.0 to 130	3.43	20.0
BB05074	Beryllium, Total	mg/L	0.0000229	0.000880	0.10	0.0972	0.0977	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.519	20.0
BB05074	Cadmium, Total	mg/L	0.000012	0.000147	0.10	0.1000	0.0966	0.105	0.0850 to 0.115	100	70.0 to 130	3.42	20.0
BB05074	Antimony, Total	mg/L	0.000191	0.00100	0.10	0.0975	0.0968	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.674	20.0
BB05074	Selenium, Total	mg/L	0.0000795	0.00100	0.10	0.0983	0.100	0.103	0.0850 to 0.115	98.3	70.0 to 130	2.16	20.0
BB05074	Arsenic, Total	mg/L	0.000069	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	2.16	20.0
BB05074	Mercury, Total by CVAA	mg/L	0.0000611	0.000500	0.004	0.00422	0.00431	0.00423	0.00340 to 0.00460	106	70.0 to 130	2.11	20.0
BB05074	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.200	0.200	0.202	0.170 to 0.230	99.9	70.0 to 130	0.244	20.0
BB05074	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.93	4.98	5.09	4.25 to 5.75	98.6	70.0 to 130	0.976	20.0
BB05074	Manganese, Total	mg/L	0.0000474	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.306	20.0
BB05074	Lead, Total	mg/L	0.0000084	0.000147	0.10	0.107	0.104	0.103	0.0850 to 0.115	107	70.0 to 130	2.59	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/8/21 14:00

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05074

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05074	Chloride	mg/L	-0.0198	1.00	10.0	10.2	0.0451	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05072	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			0.324	5.00
BB05074	Fluoride	mg/L	0.0348	0.100	2.50	2.61	0.0265	2.65	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05074	Sulfate	mg/L	-0.220	1.00	20.0	19.0	-0.321	19.1	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0

Comments:

Definitions

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.
J	Reported value is an estimate because concentration is less than reporting 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 03/10/2021 11:00

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	TJ Daugherty		Greene Ash Pond

Bottles	1	2	3	4	5	6	7	8
	Metals	500 mL	Hg	250 mL	Anions	250 mL	N/A	N/A
	Diss Metals	500 mL	TDS	500 mL	Alkalinity	250 mL	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	03/08/2021	13:05	6	Groundwater		BB05071
MW-52HO Dup	03/08/2021	13:05	6	Sample Duplicate		BB05072
FB-1	03/08/2021	13:50	4	Field Blank		BB05073
EB-1	03/08/2021	14:00	4	Equipment Blank		BB05074

Relinquished By	Received By	Date/Time
		03/09/2021 15:14
		03/10/2021 10:20

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-2009-2-1	
Sample Event	1313	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8206-45803-10-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **03/10/2021 11:00**

Requested Complete Date Site Representative Collector	Routine	Results To	Dustin Brooks, Greg Dyer
	Jason Arledge	Requested By	Greg Dyer
	TJ Daugherty	Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Rad MS/MSD collected at MW-52HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	03/08/2021	13:05	3	Groundwater		BB05075
MW-52HO Dup	03/08/2021	13:05	1	Sample Duplicate		BB05076
FB-1	03/08/2021	13:50	1	Field Blank		BB05077
EB-1	03/08/2021	14:00	1	Equipment Blank		BB05078

Relinquished By	Received By	Date/Time
		03/09/2021 15:14
		03/10/2021 10:21

SmarTroll ID	7586-41443-5-2
Turbidity ID	3901-2009-2-1
Sample Event	1313

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL

April 13, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: GREENE COUNTY WMWGREAP_1313
Pace Project No.: 92527912

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: GREENE COUNTY WMWGREAP_1313
Pace Project No.: 92527912

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 #: 9526
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: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92527912001	BB05075 MW-52HO	Water	03/08/21 13:05	03/15/21 10:00
92527912002	BB05075 MW-52HO MS	Water	03/08/21 13:05	03/15/21 10:00
92527912003	BB05075 MW-52HO MSD	Water	03/08/21 13:05	03/15/21 10:00
92527912004	BB05076 MW-52HO DUP	Water	03/08/21 13:05	03/15/21 10:00
92527912005	BB05077 FB-1	Water	03/08/21 13:50	03/15/21 10:00
92527912006	BB05078 EB-1	Water	03/08/21 14:00	03/15/21 10:00

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527912001	BB05075 MW-52HO	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527912002	BB05075 MW-52HO MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92527912003	BB05075 MW-52HO MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92527912004	BB05076 MW-52HO DUP	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527912005	BB05077 FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527912006	BB05078 EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: April 13, 2021

General Information:

6 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: April 13, 2021

General Information:

6 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: April 13, 2021

General Information:

4 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Sample: BB05075 MW-52HO **Lab ID: 92527912001** Collected: 03/08/21 13:05 Received: 03/15/21 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	0.267U ± 0.264 (0.538) C:95% T:NA	pCi/L	04/12/21 07:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.79 ± 0.573 (0.759) C:74% T:89%	pCi/L	04/12/21 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.06 ± 0.837 (1.30)	pCi/L	04/12/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Sample: BB05075 MW-52HO MS **Lab ID: 92527912002** Collected: 03/08/21 13:05 Received: 03/15/21 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	96.03 %REC ± NA (NA) C:NA T:NA	pCi/L	04/12/21 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	108.64 %REC +/- NA (NA) C:NA T:NA	pCi/L	04/12/21 11:34	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Sample: BB05075 MW-52HO MSD **Lab ID: 92527912003** Collected: 03/08/21 13:05 Received: 03/15/21 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	102.38 %REC 6.40RPD ± NA (NA) C:NA T:NA	pCi/L	04/12/21 08:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	96.04 %REC 12.31 RPD +/- NA (NA) C:NA T:NA	pCi/L	04/12/21 11:34	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Sample: BB05076 MW-52HO DUP **Lab ID: 92527912004** Collected: 03/08/21 13:05 Received: 03/15/21 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	0.434 ± 0.264 (0.394) C:94% T:NA	pCi/L	04/12/21 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.403U ± 0.434 (0.906) C:65% T:87%	pCi/L	04/12/21 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.837U ± 0.698 (1.30)	pCi/L	04/12/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Sample: BB05077 FB-1 **Lab ID: 92527912005** Collected: 03/08/21 13:50 Received: 03/15/21 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	0.00738U ± 0.137 (0.379) C:89% T:NA	pCi/L	04/12/21 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.114U ± 0.357 (0.800) C:72% T:90%	pCi/L	04/12/21 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.121U ± 0.494 (1.18)	pCi/L	04/12/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

Sample: BB05078 EB-1 **Lab ID: 92527912006** Collected: 03/08/21 14:00 Received: 03/15/21 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	0.133U ± 0.153 (0.299) C:99% T:NA	pCi/L	04/12/21 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0365U ± 0.373 (0.853) C:73% T:89%	pCi/L	04/12/21 11:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.170U ± 0.526 (1.15)	pCi/L	04/12/21 15:11	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

QC Batch: 439305

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527912001, 92527912002, 92527912003, 92527912004, 92527912005, 92527912006

METHOD BLANK: 2120880

Matrix: Water

Associated Lab Samples: 92527912001, 92527912002, 92527912003, 92527912004, 92527912005, 92527912006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.389 ± 0.401 (0.833) C:73% T:79%	pCi/L	04/12/21 11:32	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

QC Batch: 439303

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527912001, 92527912002, 92527912003, 92527912004, 92527912005, 92527912006

METHOD BLANK: 2120877

Matrix: Water

Associated Lab Samples: 92527912001, 92527912002, 92527912003, 92527912004, 92527912005, 92527912006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.231 ± 0.218 (0.421) C:99% T:NA	pCi/L	04/12/21 07:58	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GREENE COUNTY WMWGREAP_1313

Pace Project No.: 92527912

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE COUNTY WMWGREAP_1313
Pace Project No.: 92527912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527912001	BB05075 MW-52HO	EPA 9315	439303		
92527912002	BB05075 MW-52HO MS	EPA 9315	439303		
92527912003	BB05075 MW-52HO MSD	EPA 9315	439303		
92527912004	BB05076 MW-52HO DUP	EPA 9315	439303		
92527912005	BB05077 FB-1	EPA 9315	439303		
92527912006	BB05078 EB-1	EPA 9315	439303		
92527912001	BB05075 MW-52HO	EPA 9320	439305		
92527912002	BB05075 MW-52HO MS	EPA 9320	439305		
92527912003	BB05075 MW-52HO MSD	EPA 9320	439305		
92527912004	BB05076 MW-52HO DUP	EPA 9320	439305		
92527912005	BB05077 FB-1	EPA 9320	439305		
92527912006	BB05078 EB-1	EPA 9320	439305		
92527912001	BB05075 MW-52HO	Total Radium Calculation	442902		
92527912004	BB05076 MW-52HO DUP	Total Radium Calculation	442902		
92527912005	BB05077 FB-1	Total Radium Calculation	442902		
92527912006	BB05078 EB-1	Total Radium Calculation	442902		

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Client Name: Alabama Power Project

WO#: **92527912**



92527912

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 955106700972

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used NA Type of Ice: Wet Blue None

Cooler Temperature Observed Temp °C Correction Factor: °C Final Temp: °C

Temp should be above freezing to 6°C

pH paper Lot# 10D1101 Date and Initials of person examining contents: MD3/16/21

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:	/			8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests	/		/	15.
All containers have been checked for preservation.	/			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>PH 2</u>
All containers meet method preservation requirements.	/			Initial when completed <u>MD</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed <u>MD</u> Date: <u>3/16/21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

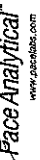
Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/19/2021
Worklist: 59400
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2120877
MB concentration:	0.231
M/B Counting Uncertainty:	0.216
MB MDC:	0.421
MB Numerical Performance Indicator:	2.10
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	4/12/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.038
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.209
Target Conc. (pCi/L, g, F):	11.488
Uncertainty (Calculated):	0.138
Result (pCi/L, g, F):	11.430
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.122
Numerical Performance Indicator:	-0.10
Percent Recovery:	99.49%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	Pass
Lower % Recovery Limits:	125%
	75%

Duplicate Sample Assessment	
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Counting Uncertainty (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:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/8/2021	3/8/2021
Sample I.D.:	92527912001	92527910002
Sample MS I.D.:	92527912002	92527910003
Sample MSD I.D.:	92527912003	92527910004
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.206	0.213
MS Target Conc. (pCi/L, g, F):	23.367	22.608
MSD Aliquot (L, g, F):	0.217	0.213
MSD Target Conc. (pCi/L, g, F):	22.121	22.545
MS Spike Uncertainty (calculated):	0.280	0.271
MSD Spike Uncertainty (calculated):	0.265	0.271
Sample Result Counting Uncertainty (pCi/L, g, F):	0.267	-0.088
Sample Matrix Spike Result:	22.706	0.133
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.587	24.842
Sample Matrix Spike Duplicate Result:	22.914	1.631
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.526	20.845
MS Numerical Performance Indicator:	-1.114	1.467
MSD Numerical Performance Indicator:	0.656	2.743
MS Percent Recovery:	96.03%	-2.108
MSD Percent Recovery:	102.38%	110.27%
MS Status vs Numerical Indicator:	N/A	92.85%
MSD Status vs Numerical Indicator:	N/A	N/A
MS Status vs Recovery:	Pass	N/A
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92527912001
Sample MS I.D.:	92527912002
Sample MSD I.D.:	92527912003
Sample Matrix Spike Result:	22.706
Sample Matrix Spike Duplicate Result:	1.587
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	22.914
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.526
Duplicate Numerical Performance Indicator:	-0.185
Duplicate Numerical Performance Indicator:	6.40%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 4/7/2021
Worklist: 59401
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2120880
MB Concentration:	0.389
MB 2 Sigma CSU:	0.401
MB MDC:	0.833
MB Numerical Performance Indicator:	1.90
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	N
Count Date:	4/12/2021	LCSD59401	
Spike I.D.:	21-003	LCSD59401	
Decay Corrected Spike Concentration (pCi/mL):	38.104		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.811		
Target Conc. (pCi/L, g, F):	4.700		
Uncertainty (Calculated):	0.230		
Result (pCi/L, g, F):	5.000		
LCSD/MSD 2 Sigma CSU (pCi/L, g, F):	1.136		
Numerical Performance Indicator:	0.51		
Percent Recovery:	106.38%		
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 LCSD/MSD in the space below.
Sample I.D.:	Sample I.D.:	
Duplicate Sample I.D.:	Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:	
Duplicate RPD:	Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	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:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/8/2021		
Sample I.D.:	92527912001		
Sample MS I.D.:	92527912002		
Sample MSD I.D.:	92527912003		
Spike I.D.:	21-003		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.546		
Spike Volume Used in MS (mL):	0.20		
MS Aliquot (L, g, F):	0.817		
MS Target Conc. (pCi/L, g, F):	9.431		
MSD Aliquot (L, g, F):	0.819		
MSD Target Conc. (pCi/L, g, F):	9.412		
MSD Numerical Performance Indicator:	0.462		
MSD Spike Uncertainty (calculated):	0.461		
MSD Percent Recovery:	1.788		
Sample Result:	0.291		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.573		
Sample Matrix Spike Result:	12.034		
Sample Matrix Spike Duplicate Result:	2.356		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	10.827		
MS Numerical Performance Indicator:	2.135		
MS Percent Recovery:	0.647		
MSD Numerical Performance Indicator:	-0.323		
MS Percent Recovery:	108.64%		
MSD Percent Recovery:	96.04%		
MS Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	Pass		
MSD Status vs Numerical Indicator:	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		MS/MSD 1	MS/MSD 2
Sample I.D.:	92527912001		
Sample MS I.D.:	92527912002		
Sample MSD I.D.:	92527912003		
Sample Matrix Spike Result:	12.034		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.356		
Sample Matrix Spike Duplicate Result:	10.827		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.135		
Duplicate Numerical Performance Indicator:	0.744		
Duplicate Percent Recovery:	12.31%		
(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%		

MAN/2/21

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

Analytical Report



Sample Group : WMWGREAP_1313

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

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

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

April 20, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2021. 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, 2021

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.04.20 11:21:47 -05'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.04.20 13:25:20 -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

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	695229	WMWGREAP_1313
BB05072	695229	WMWGREAP_1313
BB05073	695229	WMWGREAP_1313
BB05074	695229	WMWGREAP_1313

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 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.
- 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. 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>
BB05071	Calcium & Sodium	10.15
BB05072	Calcium & Sodium	10.15

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

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	695212	WMWGREAP_1313
BB05072	695212	WMWGREAP_1313

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 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 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.
 - 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.

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	694408	WMWGREAP_1313
BB05072	694408	WMWGREAP_1313
BB05073	694408	WMWGREAP_1313
BB05074	694408	WMWGREAP_1313

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.

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. 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>
BB05071	Manganese	10.15
BB05072	Manganese	10.15

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

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	694391	WMWGREAP_1313
BB05072	694391	WMWGREAP_1313

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.

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 invalid.
 - BB05072 Manganese MS/MSD spike level was less than 30% of the sample nominal concentration.
 - 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>
BB05071	Manganese	10.15
BB05072	Manganese	10.15

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

Mercury

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	694248	WMWGREAP_1313
BB05072	694248	WMWGREAP_1313
BB05073	694248	WMWGREAP_1313
BB05074	694248	WMWGREAP_1313

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.
 8. The raw data results are shown with dilution factors included.

TDS

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	693614	WMWGREAP_1313
BB05072	693614	WMWGREAP_1313
BB05073	693614	WMWGREAP_1313
BB05074	693614	WMWGREAP_1313

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB05073
 - BB05074

Anions

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	693768, 693776, & 694006	WMWGREAP_1313
BB05072	693768, 693776, & 694006	WMWGREAP_1313
BB05073	693768, 693776, & 694006	WMWGREAP_1313
BB05074	693768, 693776, & 694006	WMWGREAP_1313

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4.
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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
 - A sample duplicate was analyzed with each batch. 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>
BB05071	Chloride & Sulfate	10 & 4
BB05072	Chloride & Sulfate	10 & 4

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

Case Narrative

Alkalinity

Greene County Ash Pond

WMWGREAP_1313

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>
BB05071	694172 & 694173	WMWGREAP_1313
BB05072	694172 & 694173	WMWGREAP_1313

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were 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.

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 3/8/21 13:05
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:15		1.015	1.25	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 14:51		10.15	63.3	mg/L	0.70035	4.06	
* Iron, Total	3/30/21 11:18	3/31/21 13:15		1.015	0.372	mg/L	0.008120	0.0406	
* Lithium, Total	3/30/21 11:18	3/31/21 13:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:15		1.015	15.3	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 14:51		10.15	78.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 13:49		1.015	0.321	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:06	3/15/21 10:38		1.015	0.000270	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 08:06	3/15/21 10:38		1.015	0.131	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:06	3/15/21 10:38		1.015	0.000227	mg/L	0.000068	0.000203	
* Chromium, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:06	3/15/21 10:38		1.015	0.0153	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:06	3/15/21 10:38		1.015	3.80	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:06	3/15/21 14:21		10.15	10.5	mg/L	0.000680	0.00203	
* Selenium, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:06	3/15/21 10:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 14:03		10.15	10.3	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:32	3/18/21 10:55		1	216	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	469	mg/L		25	

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 3/8/21 13:05
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:32	3/18/21 10:55		1	216	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:32	3/18/21 10:55		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:26	3/11/21 11:26		10	90.0	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:03	3/11/21 15:03		1	0.0628	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:57	3/16/21 10:57		4	56.9	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/8/21 13:00	3/8/21 13:00			858.73	uS/cm			FA
pH	3/8/21 13:00	3/8/21 13:00			5.98	SU			FA
Temperature	3/8/21 13:00	3/8/21 13:00			18.03	C			FA
Turbidity	3/8/21 13:00	3/8/21 13:00			1.61	NTU			FA

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/8/21 13:05

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BB05071

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05074	Barium, Total	mg/L	-0.000015	0.000200	0.10	0.0999	0.0981	0.102	0.0850 to 0.115	99.9	70.0 to 130	1.82	20.0
BB05074	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	5.03	5.20	4.25 to 5.75	98.4	70.0 to 130	2.13	20.0
BB05074	Boron, Total	mg/L	0.00840	0.0650	1.00	0.989	1.01	1.02	0.850 to 1.15	98.9	70.0 to 130	1.94	20.0
BB05074	Molybdenum, Total	mg/L	0.0000121	0.000147	0.10	0.0953	0.0972	0.101	0.0850 to 0.115	95.3	70.0 to 130	1.93	20.0
BB05074	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.98	5.00	5.00	4.25 to 5.75	99.7	70.0 to 130	0.358	20.0
BB05074	Thallium, Total	mg/L	-0.000177	0.000147	0.10	0.105	0.101	0.102	0.0850 to 0.115	105	70.0 to 130	3.43	20.0
BB05074	Beryllium, Total	mg/L	0.0000229	0.000880	0.10	0.0972	0.0977	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.519	20.0
BB05074	Cadmium, Total	mg/L	0.000012	0.000147	0.10	0.1000	0.0966	0.105	0.0850 to 0.115	100	70.0 to 130	3.42	20.0
BB05074	Antimony, Total	mg/L	0.000191	0.00100	0.10	0.0975	0.0968	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.674	20.0
BB05074	Selenium, Total	mg/L	0.0000795	0.00100	0.10	0.0983	0.100	0.103	0.0850 to 0.115	98.3	70.0 to 130	2.16	20.0
BB05072	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.520	0.516	0.207	0.170 to 0.230	101	70.0 to 130	0.780	20.0
BB05074	Cobalt, Total	mg/L	-0.000205	0.000147	0.10	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.103	20.0
BB05074	Chromium, Total	mg/L	-0.0000444	0.000440	0.10	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.376	20.0
BB05074	Iron, Total	mg/L	0.000960	0.0176	0.2	0.198	0.201	0.207	0.170 to 0.230	99.0	70.0 to 130	1.65	20.0
BB05074	Potassium, Total	mg/L	0.0125	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.457	20.0
BB05072	Manganese, Dissolved	mg/L	-0.0000018	0.000147	0.10	11.0	10.6	0.102	0.0850 to 0.115	765	70.0 to 130	3.51	20.0
BB05074	Arsenic, Total	mg/L	0.000069	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	2.16	20.0
BB05074	Mercury, Total by CVAA	mg/L	0.0000611	0.000500	0.004	0.00422	0.00431	0.00423	0.00340 to 0.00460	106	70.0 to 130	2.11	20.0
BB05074	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.200	0.200	0.202	0.170 to 0.230	99.9	70.0 to 130	0.244	20.0
BB05074	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.93	4.98	5.09	4.25 to 5.75	98.6	70.0 to 130	0.976	20.0
BB05074	Manganese, Total	mg/L	0.0000474	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.306	20.0
BB05074	Lead, Total	mg/L	0.0000084	0.000147	0.10	0.107	0.104	0.103	0.0850 to 0.115	107	70.0 to 130	2.59	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/8/21 13:05

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BB05071

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05074	Sulfate	mg/L	-0.220	0.500	20.0	19.0	-0.321	19.1	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0
BB05074	Chloride	mg/L	-0.0198	0.500	10.0	10.2	0.0451	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05072	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			0.324	5.00
BB05074	Fluoride	mg/L	0.0348	0.0500	2.50	2.61	0.0265	2.65	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05072	Alkalinity, Total as CaCO3	mg/L					217	50.3	45.0 to 55.0			1.86	10.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP
Collected: 3/8/21 13:05
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	3/30/21 11:18	3/31/21 13:18		1.015	1.25	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 14:55		10.15	63.6	mg/L	0.70035	4.06	
* Iron, Total	3/30/21 11:18	3/31/21 13:18		1.015	0.369	mg/L	0.008120	0.0406	
* Lithium, Total	3/30/21 11:18	3/31/21 13:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:18		1.015	15.3	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 14:55		10.15	78.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	3/30/21 10:45	3/30/21 13:53		1.015	0.317	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.000271	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.128	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.000297	mg/L	0.000068	0.000203	
* Chromium, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.000229	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:06	3/15/21 10:41		1.015	0.0160	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:06	3/15/21 10:41		1.015	3.85	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:06	3/15/21 14:24		10.15	10.5	mg/L	0.000680	0.00203	
* Selenium, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:06	3/15/21 10:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	3/12/21 14:20	3/15/21 14:05		10.15	10.2	mg/L	0.000680	0.00203	RA
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	3/18/21 10:32	3/18/21 10:55		1	213	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	461	mg/L		25	

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
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 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP
Collected: 3/8/21 13:05
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:32	3/18/21 10:55	1		213	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:32	3/18/21 10:55	1		0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:28	3/11/21 11:28	10		87.0	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:05	3/11/21 15:05	1		Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 10:58	3/16/21 10:58	4		55.6	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/8/21 13:00	3/8/21 13:00			858.73	uS/cm			FA
pH	3/8/21 13:00	3/8/21 13:00			5.98	SU			FA
Temperature	3/8/21 13:00	3/8/21 13:00			18.03	C			FA
Turbidity	3/8/21 13:00	3/8/21 13:00			1.61	NTU			FA

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

Comments: Revised Copy:
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 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP
Sample Date: 3/8/21 13:05
Customer ID:
Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BB05072

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BB05074	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	5.03	5.20	4.25 to 5.75	98.4	70.0 to 130	2.13	20.0	
BB05074	Barium, Total	mg/L	-0.0000015	0.000200	0.10	0.0999	0.0981	0.102	0.0850 to 0.115	99.9	70.0 to 130	1.82	20.0	
BB05074	Boron, Total	mg/L	0.00840	0.0650	1.00	0.989	1.01	1.02	0.850 to 1.15	98.9	70.0 to 130	1.94	20.0	
BB05074	Molybdenum, Total	mg/L	0.0000121	0.000147	0.10	0.0953	0.0972	0.101	0.0850 to 0.115	95.3	70.0 to 130	1.93	20.0	
BB05074	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.98	5.00	5.00	4.25 to 5.75	99.7	70.0 to 130	0.358	20.0	
BB05074	Thallium, Total	mg/L	-0.000177	0.000147	0.10	0.105	0.101	0.102	0.0850 to 0.115	105	70.0 to 130	3.43	20.0	
BB05072	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.520	0.516	0.207	0.170 to 0.230	101	70.0 to 130	0.780	20.0	
BB05074	Cobalt, Total	mg/L	-0.000205	0.000147	0.10	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.103	20.0	
BB05074	Beryllium, Total	mg/L	0.0000229	0.000880	0.10	0.0972	0.0977	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.519	20.0	
BB05074	Cadmium, Total	mg/L	0.000012	0.000147	0.10	0.1000	0.0966	0.105	0.0850 to 0.115	100	70.0 to 130	3.42	20.0	
BB05074	Antimony, Total	mg/L	0.000191	0.00100	0.10	0.0975	0.0968	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.674	20.0	
BB05074	Selenium, Total	mg/L	0.0000795	0.00100	0.10	0.0983	0.100	0.103	0.0850 to 0.115	98.3	70.0 to 130	2.16	20.0	
BB05072	Manganese, Dissolved	mg/L	-0.0000018	0.000147	0.10	11.0	10.6	0.102	0.0850 to 0.115	765	70.0 to 130	3.51	20.0	
BB05074	Arsenic, Total	mg/L	0.000069	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	2.16	20.0	
BB05074	Mercury, Total by CVAA	mg/L	0.0000611	0.000500	0.004	0.00422	0.00431	0.00423	0.00340 to 0.00460	106	70.0 to 130	2.11	20.0	
BB05074	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.200	0.200	0.202	0.170 to 0.230	99.9	70.0 to 130	0.244	20.0	
BB05074	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.93	4.98	5.09	4.25 to 5.75	98.6	70.0 to 130	0.976	20.0	
BB05074	Manganese, Total	mg/L	0.0000474	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.306	20.0	
BB05074	Lead, Total	mg/L	0.0000084	0.000147	0.10	0.107	0.104	0.103	0.0850 to 0.115	107	70.0 to 130	2.59	20.0	
BB05074	Chromium, Total	mg/L	-0.0000444	0.000440	0.10	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.376	20.0	
BB05074	Iron, Total	mg/L	0.000960	0.0176	0.2	0.198	0.201	0.207	0.170 to 0.230	99.0	70.0 to 130	1.65	20.0	
BB05074	Potassium, Total	mg/L	0.0125	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.457	20.0	

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP
Sample Date: 3/8/21 13:05
Customer ID:
Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BB05072

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05074	Sulfate	mg/L	-0.220	0.500	20.0	19.0	-0.321	19.1	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0
BB05074	Fluoride	mg/L	0.0348	0.0500	2.50	2.61	0.0265	2.65	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05072	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			0.324	5.00
BB05072	Alkalinity, Total as CaCO3	mg/L					217	50.3	45.0 to 55.0			1.86	10.0
BB05074	Chloride	mg/L	-0.0198	0.500	10.0	10.2	0.0451	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
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 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/8/21 13:50
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05073

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 13:22		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 08:06	3/15/21 10:43		1.015	0.000114	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:06	3/15/21 10:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 11:29	3/11/21 11:29		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 15:06	3/11/21 15:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 10:59	3/16/21 10:59		1	Not Detected	mg/L	0.50	1	U

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 13:50

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05073

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05074	Barium, Total	mg/L	-0.000015	0.000200	0.10	0.0999	0.0981	0.102	0.0850 to 0.115	99.9	70.0 to 130	1.82	20.0
BB05074	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	5.03	5.20	4.25 to 5.75	98.4	70.0 to 130	2.13	20.0
BB05074	Boron, Total	mg/L	0.00840	0.0650	1.00	0.989	1.01	1.02	0.850 to 1.15	98.9	70.0 to 130	1.94	20.0
BB05074	Molybdenum, Total	mg/L	0.0000121	0.000147	0.10	0.0953	0.0972	0.101	0.0850 to 0.115	95.3	70.0 to 130	1.93	20.0
BB05074	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.98	5.00	5.00	4.25 to 5.75	99.7	70.0 to 130	0.358	20.0
BB05074	Thallium, Total	mg/L	-0.000177	0.000147	0.10	0.105	0.101	0.102	0.0850 to 0.115	105	70.0 to 130	3.43	20.0
BB05074	Beryllium, Total	mg/L	0.0000229	0.000880	0.10	0.0972	0.0977	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.519	20.0
BB05074	Cadmium, Total	mg/L	0.000012	0.000147	0.10	0.1000	0.0966	0.105	0.0850 to 0.115	100	70.0 to 130	3.42	20.0
BB05074	Antimony, Total	mg/L	0.000191	0.00100	0.10	0.0975	0.0968	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.674	20.0
BB05074	Selenium, Total	mg/L	0.0000795	0.00100	0.10	0.0983	0.100	0.103	0.0850 to 0.115	98.3	70.0 to 130	2.16	20.0
BB05074	Chromium, Total	mg/L	-0.0000444	0.000440	0.10	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.376	20.0
BB05074	Iron, Total	mg/L	0.000960	0.0176	0.2	0.198	0.201	0.207	0.170 to 0.230	99.0	70.0 to 130	1.65	20.0
BB05074	Potassium, Total	mg/L	0.0125	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.457	20.0
BB05074	Cobalt, Total	mg/L	-0.000205	0.000147	0.10	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.103	20.0
BB05074	Arsenic, Total	mg/L	0.000069	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	2.16	20.0
BB05074	Mercury, Total by CVAA	mg/L	0.0000611	0.000500	0.004	0.00422	0.00431	0.00423	0.00340 to 0.00460	106	70.0 to 130	2.11	20.0
BB05074	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.200	0.200	0.202	0.170 to 0.230	99.9	70.0 to 130	0.244	20.0
BB05074	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.93	4.98	5.09	4.25 to 5.75	98.6	70.0 to 130	0.976	20.0
BB05074	Manganese, Total	mg/L	0.0000474	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.306	20.0
BB05074	Lead, Total	mg/L	0.0000084	0.000147	0.10	0.107	0.104	0.103	0.0850 to 0.115	107	70.0 to 130	2.59	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 13:50

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05073

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05074	Fluoride	mg/L	0.0348	0.0500	2.50	2.61	0.0265	2.65	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05072	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			0.324	5.00
BB05074	Chloride	mg/L	-0.0198	0.500	10.0	10.2	0.0451	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05074	Sulfate	mg/L	-0.220	0.500	20.0	19.0	-0.321	19.1	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/8/21 14:00
Customer ID:
Submittal Date: 3/10/21 14:08

Laboratory ID Number: BB05074

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 13:25		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 08:06	3/15/21 10:46		1.015	0.0000744	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:06	3/15/21 10:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 14:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/10/21 16:40	3/12/21 08:20		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:30	3/11/21 11:30		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:07	3/11/21 15:07		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:00	3/16/21 11:00		1	Not Detected	mg/L	0.50	1	U

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAPEB

Sample Date: 3/8/21 14:00

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05074

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BB05074	Barium, Total	mg/L	-0.000015	0.000200	0.10	0.0999	0.0981	0.102	0.0850 to 0.115	99.9	70.0 to 130	1.82	20.0
BB05074	Cobalt, Total	mg/L	-0.000205	0.000147	0.10	0.107	0.107	0.109	0.0850 to 0.115	107	70.0 to 130	0.103	20.0
BB05074	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	5.03	5.20	4.25 to 5.75	98.4	70.0 to 130	2.13	20.0
BB05074	Boron, Total	mg/L	0.00840	0.0650	1.00	0.989	1.01	1.02	0.850 to 1.15	98.9	70.0 to 130	1.94	20.0
BB05074	Molybdenum, Total	mg/L	0.0000121	0.000147	0.10	0.0953	0.0972	0.101	0.0850 to 0.115	95.3	70.0 to 130	1.93	20.0
BB05074	Sodium, Total	mg/L	0.00461	0.0660	5.00	4.98	5.00	5.00	4.25 to 5.75	99.7	70.0 to 130	0.358	20.0
BB05074	Thallium, Total	mg/L	-0.000177	0.000147	0.10	0.105	0.101	0.102	0.0850 to 0.115	105	70.0 to 130	3.43	20.0
BB05074	Beryllium, Total	mg/L	0.0000229	0.000880	0.10	0.0972	0.0977	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.519	20.0
BB05074	Cadmium, Total	mg/L	0.000012	0.000147	0.10	0.1000	0.0966	0.105	0.0850 to 0.115	100	70.0 to 130	3.42	20.0
BB05074	Antimony, Total	mg/L	0.000191	0.00100	0.10	0.0975	0.0968	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.674	20.0
BB05074	Selenium, Total	mg/L	0.0000795	0.00100	0.10	0.0983	0.100	0.103	0.0850 to 0.115	98.3	70.0 to 130	2.16	20.0
BB05074	Chromium, Total	mg/L	-0.0000444	0.000440	0.10	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.376	20.0
BB05074	Iron, Total	mg/L	0.000960	0.0176	0.2	0.198	0.201	0.207	0.170 to 0.230	99.0	70.0 to 130	1.65	20.0
BB05074	Potassium, Total	mg/L	0.0125	0.367	10.0	10.1	10.1	10.4	8.50 to 11.5	101	70.0 to 130	0.457	20.0
BB05074	Arsenic, Total	mg/L	0.000069	0.000147	0.10	0.101	0.103	0.101	0.0850 to 0.115	101	70.0 to 130	2.16	20.0
BB05074	Mercury, Total by CVAA	mg/L	0.0000611	0.000500	0.004	0.00422	0.00431	0.00423	0.00340 to 0.00460	106	70.0 to 130	2.11	20.0
BB05074	Lithium, Total	mg/L	0.0000580	0.0154	0.20	0.200	0.200	0.202	0.170 to 0.230	99.9	70.0 to 130	0.244	20.0
BB05074	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.93	4.98	5.09	4.25 to 5.75	98.6	70.0 to 130	0.976	20.0
BB05074	Manganese, Total	mg/L	0.0000474	0.000147	0.10	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.306	20.0
BB05074	Lead, Total	mg/L	0.0000084	0.000147	0.10	0.107	0.104	0.103	0.0850 to 0.115	107	70.0 to 130	2.59	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAPEB

Sample Date: 3/8/21 14:00

Customer ID:

Delivery Date: 3/10/21 14:08

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05074

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05074	Sulfate	mg/L	-0.220	0.500	20.0	19.0	-0.321	19.1	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0
BB05074	Fluoride	mg/L	0.0348	0.0500	2.50	2.61	0.0265	2.65	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BB05074	Chloride	mg/L	-0.0198	0.500	10.0	10.2	0.0451	10.1	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BB05072	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			0.324	5.00

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Definitions

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.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete

 Outside Lab

 Lab Complete

 Lab ETA 03/10/2021 11:00

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer	
	Jason Arledge		Greg Dyer	
	TJ Daugherty		Greene Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments	
----------	--

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	03/08/2021	13:05	6	Groundwater		BB05071
MW-52HO Dup	03/08/2021	13:05	6	Sample Duplicate		BB05072
FB-1	03/08/2021	13:50	4	Field Blank		BB05073
EB-1	03/08/2021	14:00	4	Equipment Blank		BB05074

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	03/09/2021 15:14
<i>[Signature]</i>	<i>[Signature]</i>	03/10/2021 10:20

SmarTroll ID	7586-41443-5-2
Turbidity ID	3901-2009-2-1
Sample Event	1313

All metals and radiological bottles have pH < 2

Cooler Temp	0.0 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8206-45803-10-7



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete Outside Lab Lab CompleteLab ETA 03/10/2021 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments Rad MS/MSD collected at MW-52HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	03/08/2021	13:05	3	Groundwater		BB05075
MW-52HO Dup	03/08/2021	13:05	1	Sample Duplicate		BB05076
FB-1	03/08/2021	13:50	1	Field Blank		BB05077
EB-1	03/08/2021	14:00	1	Equipment Blank		BB05078

Relinquished By	Received By	Date/Time
		03/09/2021 15:14
		03/10/2021 10:21

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp N/A Thermometer ID N/A pH Strip ID 8206-45803-10-7
Turbidity ID	3901-2009-2-1	
Sample Event	1313	

Bottles/Pre-Preserved Bottles are provided by the GTL

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



Greene County Ash Pond

2021 Sewell Off-Site Wells 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).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification 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
205-664-6001

Analytical Report



Sample Group : WMWGREAP_1314

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

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

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

April 16, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2021. 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, 2021

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.04.16 15:15:02 -05'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.04.19 08:08:28 -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

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	695236	WMWGREAP_1314
BB05080	695236	WMWGREAP_1314
BB05081	695236	WMWGREAP_1314
BB05082	695236	WMWGREAP_1314
BB05083	695236	WMWGREAP_1314
BB05084	695236	WMWGREAP_1314
BB05085	695236	WMWGREAP_1314

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 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.
- 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. 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>
BB05084	Calcium	10.15

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

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	695214	WMWGREAP_1314
BB05080	695214	WMWGREAP_1314
BB05082	695214	WMWGREAP_1314
BB05083	695214	WMWGREAP_1314
BB05084	695214	WMWGREAP_1314

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 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 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.
 - 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.

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	694422	WMWGREAP_1314
BB05080	694422	WMWGREAP_1314
BB05081	694422	WMWGREAP_1314
BB05082	694422	WMWGREAP_1314
BB05083	694422	WMWGREAP_1314
BB05084	694422	WMWGREAP_1314
BB05085	694422	WMWGREAP_1314

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.

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. 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>
BB05080	Manganese	5.075
BB05084	Manganese	10.15

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

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	694393	WMWGREAP_1314
BB05080	694393	WMWGREAP_1314
BB05082	694393	WMWGREAP_1314
BB05083	694393	WMWGREAP_1314
BB05084	694393	WMWGREAP_1314

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.

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 invalid.
 - BB05084 Manganese MS/MSD spike level was less than 30% of the sample nominal concentration.
 - 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>
BB05080	Manganese	5.075
BB05084	Manganese	10.15

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

Mercury

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	694249	WMWGREAP_1314
BB05080	694249	WMWGREAP_1314
BB05081	694249	WMWGREAP_1314
BB05082	694249	WMWGREAP_1314
BB05083	694249	WMWGREAP_1314
BB05084	694249	WMWGREAP_1314
BB05085	694249	WMWGREAP_1314

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.
 8. The raw data results are shown with dilution factors included.

TDS

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	693753	WMWGREAP_1314
BB05080	693753	WMWGREAP_1314
BB05081	693753	WMWGREAP_1314
BB05082	693753	WMWGREAP_1314
BB05083	693753	WMWGREAP_1314
BB05084	693753	WMWGREAP_1314
BB05085	693753	WMWGREAP_1314

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB05081
 - BB05085

Anions

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	693769, 693777, & 694007	WMWGREAP_1314
BB05080	693769, 693777, & 694007	WMWGREAP_1314
BB05081	693769, 693777, & 694007	WMWGREAP_1314
BB05082	693769, 693777, & 694007	WMWGREAP_1314
BB05083	693769, 693777, & 694007	WMWGREAP_1314
BB05084	693769, 693777, & 694007	WMWGREAP_1314
BB05085	693769, 693777, & 694007	WMWGREAP_1314

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4.
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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
 - A sample duplicate was analyzed with each batch. 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>
BB05080	Sulfate	4
BB05084	Sulfate	16

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

Alkalinity

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	694176 & 694177	WMWGREAP_1314
BB05080	694176 & 694177	WMWGREAP_1314
BB05082	694176 & 694177	WMWGREAP_1314
BB05083	694176 & 694177	WMWGREAP_1314
BB05084	694176 & 694177	WMWGREAP_1314

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were 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.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 3/8/21 14:19
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05079

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:42		1.015	0.0769	mg/L	0.030000	0.1015	J
* Calcium, Total	3/30/21 11:18	3/31/21 13:42		1.015	12.9	mg/L	0.070035	0.406	
* Iron, Total	3/30/21 11:18	3/31/21 13:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 13:42		1.015	0.0456	mg/L	0.007105	0.019999	
* Magnesium, Total	3/30/21 11:18	3/31/21 13:42		1.015	3.48	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:42		1.015	7.76	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:10		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:39		1.015	0.000152	mg/L	0.000068	0.000203	J
* Barium, Total	3/12/21 08:14	3/15/21 11:39		1.015	0.0229	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:14	3/15/21 11:39		1.015	2.51	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 11:39		1.015	0.181	mg/L	0.000068	0.000203	
* Selenium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/12/21 14:20	3/15/21 11:07		1.015	0.165	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	16.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	93.3	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 3/8/21 14:19
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05079

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	16.2	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:44	3/11/21 11:44		1	8.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:21	3/11/21 15:21		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:13	3/16/21 11:13		1	31.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/8/21 14:14	3/8/21 14:14			142.60	uS/cm			FA
pH	3/8/21 14:14	3/8/21 14:14			5.74	SU			FA
Temperature	3/8/21 14:14	3/8/21 14:14			18.77	C			FA
Turbidity	3/8/21 14:14	3/8/21 14:14			1.19	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 14:19

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BB05079

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Barium, Total	mg/L	0.0000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 14:19

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BB05079

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Fluoride	mg/L	0.0342	0.100	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	1.00	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Chloride	mg/L	-0.00456	1.00	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 3/8/21 15:21
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05080

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:45		1.015	0.302	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 13:45		1.015	32.7	mg/L	0.070035	0.406	
* Iron, Total	3/30/21 11:18	3/31/21 13:45		1.015	0.172	mg/L	0.008120	0.0406	
* Lithium, Total	3/30/21 11:18	3/31/21 13:45		1.015	0.119	mg/L	0.007105	0.019999	
* Magnesium, Total	3/30/21 11:18	3/31/21 13:45		1.015	5.37	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:45		1.015	22.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:13		1.015	0.0105	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.000267	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.0685	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.000287	mg/L	0.000068	0.000203	
* Chromium, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.000280	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.00553	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.000122	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:14	3/15/21 11:42		1.015	5.00	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 14:40		5.075	4.09	mg/L	0.000340	0.001015	
* Selenium, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 14:27		5.075	4.24	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	70.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	218	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 3/8/21 15:21
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05080

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	70.3	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.03	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:45	3/11/21 11:45		1	13.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:23	3/11/21 15:23		1	0.127	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:24	3/16/21 11:24		4	71.5	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/8/21 15:18	3/8/21 15:18			341.75	uS/cm			FA
pH	3/8/21 15:18	3/8/21 15:18			6.36	SU			FA
Temperature	3/8/21 15:18	3/8/21 15:18			17.83	C			FA
Turbidity	3/8/21 15:18	3/8/21 15:18			3.31	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 15:21

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BB05080

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0
BB05085	Barium, Total	mg/L	0.0000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/8/21 15:21

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BB05080

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Fluoride	mg/L	0.0342	0.100	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	1.00	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Chloride	mg/L	-0.00456	1.00	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/8/21 15:35
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05081

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 08:14	3/15/21 11:44		1.015	0.0000714	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 11:47	3/11/21 11:47		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 15:24	3/11/21 15:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 11:15	3/16/21 11:15		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 15:35

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05081

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0	
BB05085	Barium, Total	mg/L	0.0000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0	
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0	
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0	
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0	
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0	
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0	
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0	
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0	
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0	
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0	
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0	
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0	
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0	
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0	
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0	
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0	
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0	
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0	
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0	

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 15:35

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05081

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.100	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	1.00	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Chloride	mg/L	-0.00456	1.00	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 3/9/21 09:13
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05082

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:52		1.015	0.0397	mg/L	0.030000	0.1015	J
* Calcium, Total	3/30/21 11:18	3/31/21 13:52		1.015	2.62	mg/L	0.070035	0.406	
* Iron, Total	3/30/21 11:18	3/31/21 13:52		1.015	0.0268	mg/L	0.008120	0.0406	J
* Lithium, Total	3/30/21 11:18	3/31/21 13:52		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:52		1.015	1.70	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:52		1.015	6.45	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.000130	mg/L	0.000068	0.000203	J
* Barium, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.0404	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.000619	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.000738	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.0000875	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:14	3/15/21 11:47		1.015	2.22	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.00926	mg/L	0.000068	0.000203	
* Selenium, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 11:13		1.015	0.00866	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	8.52	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	52.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 3/9/21 09:13
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05082

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	8.52	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 11:48	3/11/21 11:48		1	5.06	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:25	3/11/21 15:25		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:16	3/16/21 11:16		1	9.20	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/9/21 09:09	3/9/21 09:09			67.04	uS/cm			FA
pH	3/9/21 09:09	3/9/21 09:09			5.13	SU			FA
Temperature	3/9/21 09:09	3/9/21 09:09			18.42	C			FA
Turbidity	3/9/21 09:09	3/9/21 09:09			3.54	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:13

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BB05082

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Barium, Total	mg/L	0.0000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:13

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BB05082

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Fluoride	mg/L	0.0342	0.100	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	1.00	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Chloride	mg/L	-0.00456	1.00	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-55HO DUP

Location Code: WMWGREAP
Collected: 3/9/21 09:13
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05083

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:55		1.015	0.0397	mg/L	0.030000	0.1015	J
* Calcium, Total	3/30/21 11:18	3/31/21 13:55		1.015	2.70	mg/L	0.070035	0.406	
* Iron, Total	3/30/21 11:18	3/31/21 13:55		1.015	0.0314	mg/L	0.008120	0.0406	J
* Lithium, Total	3/30/21 11:18	3/31/21 13:55		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:55		1.015	1.73	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:55		1.015	6.48	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.000111	mg/L	0.000068	0.000203	J
* Barium, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.0383	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.000633	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.000705	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.0000758	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:14	3/15/21 11:50		1.015	2.22	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.00907	mg/L	0.000068	0.000203	
* Selenium, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Manganese, Dissolved	3/12/21 14:20	3/15/21 11:15		1.015	0.00849	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	11.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	52.0	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-55HO DUP

Location Code: WMWGREAP
Collected: 3/9/21 09:13
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05083

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	11.4	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:49	3/11/21 11:49		1	5.05	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:26	3/11/21 15:26		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:17	3/16/21 11:17		1	9.12	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/9/21 09:09	3/9/21 09:09			67.04	uS/cm			FA
pH	3/9/21 09:09	3/9/21 09:09			5.13	SU			FA
Temperature	3/9/21 09:09	3/9/21 09:09			18.42	C			FA
Turbidity	3/9/21 09:09	3/9/21 09:09			3.54	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:13

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-55HO DUP

Laboratory ID Number: BB05083

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Barium, Total	mg/L	0.000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:13

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-55HO DUP

Laboratory ID Number: BB05083

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Chloride	mg/L	-0.00456	1.00	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0
BB05085	Fluoride	mg/L	0.0342	0.100	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	1.00	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP
Collected: 3/9/21 11:20
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05084

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:59		1.015	0.192	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 14:58		10.15	60.5	mg/L	0.70035	4.06	
* Iron, Total	3/30/21 11:18	3/31/21 13:59		1.015	0.538	mg/L	0.008120	0.0406	
* Lithium, Total	3/30/21 11:18	3/31/21 13:59		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:59		1.015	15.7	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:59		1.015	29.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:23		1.015	0.0903	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:52		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.00103	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.0795	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.0000708	mg/L	0.000068	0.000203	J
* Chromium, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.000256	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.0263	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:14	3/15/21 11:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.000127	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:14	3/15/21 11:52		1.015	4.10	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 14:42		10.15	10.7	mg/L	0.000680	0.00203	
* Selenium, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.000652	mg/L	0.000507	0.001015	J
* Thallium, Total	3/12/21 08:14	3/15/21 11:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 14:29		10.15	10.6	mg/L	0.000680	0.00203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	65.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	386	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP
Collected: 3/9/21 11:20
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05084

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	65.3	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.01	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:50	3/11/21 11:50		1	10.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:27	3/11/21 15:27		1	0.0715	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:25	3/16/21 11:25		16	202	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/9/21 11:17	3/9/21 11:17			495.60	uS/cm			FA
pH	3/9/21 11:17	3/9/21 11:17			5.94	SU			FA
Temperature	3/9/21 11:17	3/9/21 11:17			17.20	C			FA
Turbidity	3/9/21 11:17	3/9/21 11:17			6.66	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 11:20

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BB05084

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Barium, Total	mg/L	0.000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05084	Manganese, Dissolved	mg/L	0.000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/9/21 11:20

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BB05084

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Fluoride	mg/L	0.0342	0.100	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	1.00	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Chloride	mg/L	-0.00456	1.00	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/9/21 11:50
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05085

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 08:14	3/15/21 11:55		1.015	0.000106	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 11:51	3/11/21 11:51		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 15:29	3/11/21 15:29		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 11:20	3/16/21 11:20		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/9/21 11:50

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05085

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0
BB05085	Barium, Total	mg/L	0.0000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/9/21 11:50

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05085

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.100	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	1.00	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Chloride	mg/L	-0.00456	1.00	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0

Comments:

Definitions

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.
J	Reported value is an estimate because concentration is less than reporting 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		
	Jason Arledge			Requested By	Greg Dyer	
	Dallas Gentry				Location	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-47HO	03/08/2021	14:19	6	Groundwater		BB05079
MW-50HO	03/08/2021	15:21	6	Groundwater		BB05080
FB-1	03/08/2021	15:35	4	Field Blank		BB05081
MW-55HO	03/09/2021	09:13	6	Groundwater		BB05082
MW-55HO dup	03/09/2021	09:13	6	Sample Duplicate		BB05083
MW-59 HO	03/09/2021	11:20	6	Groundwater		BB05084
EB-1	03/09/2021	11:50	4	Equipment Blank		BB05085

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Dustin Brooks</i>	03/09/2021 15:23
<i>Ande Sw</i>	<i>Greg Dyer</i>	03/10/2021 10:25

SmarTroll ID	7586-41442-5-1
Turbidity ID	3901-20010-2-2
Sample Event	1314

All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Cooler Temp	0.2 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8206-45803-10-7



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
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene 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-47HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-47HO	03/08/2021	14:19	3	Groundwater		BB05086
MW-50HO	03/08/2021	15:21	1	Groundwater		BB05087
FB-1	03/08/2021	15:35	1	Field Blank		BB05088
MW-55HO	03/09/2021	09:13	1	Groundwater		BB05089
MW-55HO dup	03/09/2021	09:13	1	Sample Duplicate		BB05090
MW-59 HO	03/09/2021	11:20	1	Groundwater		BB05091
EB-1	03/09/2021	11:50	1	Equipment Blank		BB05092

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	03/09/2021 15:23
<i>[Signature]</i>	<i>[Signature]</i>	03/10/2021 10:22

SmarTroll ID	7586-41442-5-1
Turbidity ID	3901-20010-2-2
Sample Event	1314

All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL

April 13, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: GREENE COUNTY WMWGREAP_1314
Pace Project No.: 92527915

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GREENE COUNTY WMWGREAP_1314
Pace Project No.: 92527915

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 #: 9526
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: GREENE COUNTY WMWGREAP_1314
Pace Project No.: 92527915

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92527915001	BB05086 MW-47HO	Water	03/08/21 14:19	03/15/21 10:00
92527915002	BB05086 MW-47HO MS	Water	03/08/21 14:19	03/15/21 10:00
92527915003	BB05086 MW-47HO MSD	Water	03/08/21 14:19	03/15/21 10:00
92527915004	BB05087 MW-50HO	Water	03/08/21 15:21	03/15/21 10:00
92527915005	BB05088 FB-1	Water	03/08/21 15:35	03/15/21 10:00
92527915006	BB05089 MW-55HO	Water	03/09/21 09:13	03/15/21 10:00
92527915007	BB05090 MW-55HO DUP	Water	03/09/21 09:13	03/15/21 10:00
92527915008	BB05091 MW-59HO	Water	03/09/21 11:20	03/15/21 10:00
92527915009	BB05092 EB-1	Water	03/09/21 11:50	03/15/21 10:00

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SAMPLE ANALYTE COUNT

Project: GREENE COUNTY WMWGREAP_1314
Pace Project No.: 92527915

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92527915001	BB05086 MW-47HO	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527915002	BB05086 MW-47HO MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92527915003	BB05086 MW-47HO MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92527915004	BB05087 MW-50HO	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527915005	BB05088 FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527915006	BB05089 MW-55HO	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527915007	BB05090 MW-55HO DUP	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527915008	BB05091 MW-59HO	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92527915009	BB05092 EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: April 13, 2021

General Information:

9 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: April 13, 2021

General Information:

9 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: April 13, 2021

General Information:

7 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05086 MW-47HO **Lab ID: 92527915001** Collected: 03/08/21 14:19 Received: 03/15/21 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	0.120U ± 0.190 (0.418) C:97% T:NA	pCi/L	04/09/21 09:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.448U ± 0.386 (0.782) C:66% T:98%	pCi/L	04/06/21 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.568U ± 0.576 (1.20)	pCi/L	04/12/21 13:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05086 MW-47HO MS **Lab ID: 92527915002** Collected: 03/08/21 14:19 Received: 03/15/21 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	95.52 %REC ± NA (NA) C:NA T:NA	pCi/L	04/09/21 09:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	79.23 %REC ± NA (NA) C:NA T:NA	pCi/L	04/06/21 14:36	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05086 MW-47HO MSD **Lab ID: 92527915003** Collected: 03/08/21 14:19 Received: 03/15/21 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	106.41 %REC 10.78RPD ± NA (NA) C:NA T:NA	pCi/L	04/09/21 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	83.73 %REC 5.52 RPD ± NA (NA) C:NA T:NA	pCi/L	04/06/21 14:35	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05087 MW-50HO **Lab ID: 92527915004** Collected: 03/08/21 15:21 Received: 03/15/21 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 ± 0.248 (0.503) C:97% T:NA	pCi/L	04/12/21 07:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.760 ± 0.408 (0.733) C:72% T:89%	pCi/L	04/12/21 11:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.00U ± 0.656 (1.24)	pCi/L	04/12/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05088 FB-1 **Lab ID: 92527915005** Collected: 03/08/21 15:35 Received: 03/15/21 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	-0.124U ± 0.224 (0.635) C:101% T:NA	pCi/L	04/12/21 07:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.181U ± 0.318 (0.777) C:71% T:90%	pCi/L	04/12/21 11:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000U ± 0.542 (1.41)	pCi/L	04/12/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05089 MW-55HO **Lab ID: 92527915006** Collected: 03/09/21 09:13 Received: 03/15/21 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	0.230U ± 0.262 (0.552) C:100% T:NA	pCi/L	04/12/21 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.794U ± 0.466 (0.867) C:71% T:90%	pCi/L	04/12/21 11:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.02U ± 0.728 (1.42)	pCi/L	04/12/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05090 MW-55HO DUP **Lab ID: 92527915007** Collected: 03/09/21 09:13 Received: 03/15/21 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 ± 0.254 (0.554) C:100% T:NA	pCi/L	04/12/21 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.177U ± 0.372 (0.820) C:72% T:89%	pCi/L	04/12/21 11:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.365U ± 0.626 (1.37)	pCi/L	04/12/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05091 MW-59HO **Lab ID: 92527915008** Collected: 03/09/21 11:20 Received: 03/15/21 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	0.846 ± 0.451 (0.787) C:95% T:NA	pCi/L	04/12/21 07:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.749U ± 0.413 (0.750) C:70% T:93%	pCi/L	04/12/21 11:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.60 ± 0.864 (1.54)	pCi/L	04/12/21 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

Sample: BB05092 EB-1 **Lab ID: 92527915009** Collected: 03/09/21 11:50 Received: 03/15/21 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	0.0416U ± 0.222 (0.553) C:100% T:NA	pCi/L	04/12/21 07:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.294U ± 0.332 (0.697) C:73% T:88%	pCi/L	04/12/21 11:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.336U ± 0.554 (1.25)	pCi/L	04/12/21 15:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

QC Batch: 439280	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527915001, 92527915002, 92527915003

METHOD BLANK: 2120834 Matrix: Water

Associated Lab Samples: 92527915001, 92527915002, 92527915003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00882 ± 0.213 (0.547) C:95% T:NA	pCi/L	04/09/21 07:43	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

QC Batch: 439308

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527915001, 92527915002, 92527915003

METHOD BLANK: 2120884

Matrix: Water

Associated Lab Samples: 92527915001, 92527915002, 92527915003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.606 ± 0.355 (0.651) C:71% T:99%	pCi/L	04/06/21 14:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

QC Batch: 439305

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527915004, 92527915005, 92527915006, 92527915007, 92527915008, 92527915009

METHOD BLANK: 2120880

Matrix: Water

Associated Lab Samples: 92527915004, 92527915005, 92527915006, 92527915007, 92527915008, 92527915009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.389 ± 0.401 (0.833) C:73% T:79%	pCi/L	04/12/21 11:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

QC Batch: 439303

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92527915004, 92527915005, 92527915006, 92527915007, 92527915008, 92527915009

METHOD BLANK: 2120877

Matrix: Water

Associated Lab Samples: 92527915004, 92527915005, 92527915006, 92527915007, 92527915008, 92527915009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.231 ± 0.218 (0.421) C:99% T:NA	pCi/L	04/12/21 07:58	

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

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QUALIFIERS

Project: GREENE COUNTY WMWGREAP_1314

Pace Project No.: 92527915

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE COUNTY WMWGREAP_1314
Pace Project No.: 92527915

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92527915001	BB05086 MW-47HO	EPA 9315	439280		
92527915002	BB05086 MW-47HO MS	EPA 9315	439280		
92527915003	BB05086 MW-47HO MSD	EPA 9315	439280		
92527915004	BB05087 MW-50HO	EPA 9315	439303		
92527915005	BB05088 FB-1	EPA 9315	439303		
92527915006	BB05089 MW-55HO	EPA 9315	439303		
92527915007	BB05090 MW-55HO DUP	EPA 9315	439303		
92527915008	BB05091 MW-59HO	EPA 9315	439303		
92527915009	BB05092 EB-1	EPA 9315	439303		
92527915001	BB05086 MW-47HO	EPA 9320	439308		
92527915002	BB05086 MW-47HO MS	EPA 9320	439308		
92527915003	BB05086 MW-47HO MSD	EPA 9320	439308		
92527915004	BB05087 MW-50HO	EPA 9320	439305		
92527915005	BB05088 FB-1	EPA 9320	439305		
92527915006	BB05089 MW-55HO	EPA 9320	439305		
92527915007	BB05090 MW-55HO DUP	EPA 9320	439305		
92527915008	BB05091 MW-59HO	EPA 9320	439305		
92527915009	BB05092 EB-1	EPA 9320	439305		
92527915001	BB05086 MW-47HO	Total Radium Calculation	442890		
92527915004	BB05087 MW-50HO	Total Radium Calculation	442902		
92527915005	BB05088 FB-1	Total Radium Calculation	442902		
92527915006	BB05089 MW-55HO	Total Radium Calculation	442902		
92527915007	BB05090 MW-55HO DUP	Total Radium Calculation	442902		
92527915008	BB05091 MW-59HO	Total Radium Calculation	442902		
92527915009	BB05092 EB-1	Total Radium Calculation	442902		

REPORT OF LABORATORY ANALYSIS

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Client Name: Alabama Power

WO#: **92527915**



Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 955106700972

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used NA Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

pH paper Lot# 10D1101 Date and Initials of person examining contents: MD 3/16/21

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests	/		/	15.
All containers have been checked for preservation.	/			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>pH < 2</u>
All containers meet method preservation requirements.	/			Initial when completed: <u>MD</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: <u>MD</u> Date: <u>3/16/21</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

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:

Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35004
 Email To: lbmidkiff@southemco.com
 Phone: 205-684-6197 Fax
 Requested Due Date: 28 days

Section B

Required Project Information:

Report To: Laura Midkiff
 Copy To: Brooke Catton & Renee Jernigan
 Purchase Order #: APC57570-0001
 Project Name: Gorgas Pooled Upgrade
 Project Number: WVMWGREAP 1314

Section C

Invoice Information:

Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Face Quote: CCR
 Face Project Manager: Kevin Herring@dpccalabs.com
 Face Profile #: 13805

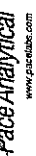
Page : 1 Of 1

ITEM #	SAMPLE ID (A-Z, 0-9 I, -) Sample IDs must be unique	MATRIX Drinking Water WV Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE GW WW P SL WV WAP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS																
						START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)								
																													DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
1	BB05086	MW-47HO	GW/G	GW/G		3/8/2021	14:19	3	X																											
2	BB05087	MW-50HO	GW/G	GW/G		3/8/2021	15:21	1	X																											
3	BB05088	FB-1	GW/G	GW/G		3/8/2021	15:36	1	X																											
4	BB05089	MW-59HO	GW/G	GW/G		3/9/2021	9:13	1	X																											
5	BB05090	MW-59HO DUP	GW/G	GW/G		3/9/2021	9:13	1	X																											
6	BB05091	MW-59HO	GW/G	GW/G		3/9/2021	11:20	1	X																											
7	BB05092	EB-1	GW/G	GW/G		3/9/2021	11:50	1	X																											
8																																				
9																																				
10																																				
11																																				
12																																				
ADDITIONAL COMMENTS						RELINQUISHED BY/AFFILIATION						DATE	TIME	ACCEPTED BY/AFFILIATION						DATE	TIME	SAMPLE CONDITIONS														
						Laura Midkiff/ APC GTL						3/11/2021	1420	<i>[Signature]</i>						3/15/2021	1420	N N N N N														

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 DATE Signed:

ND211121

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/19/2021
Worklist: 59390
Matrix: DJW

Method Blank Assessment	
MB Sample ID	2120834
MB concentration:	0.009
M/B Counting Uncertainty:	0.213
MB MDC:	0.547
MB Numerical Performance Indicator:	0.08
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS#	Y or N?
LCS59390	N
Count Date:	4/9/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.217
Target Conc. (pCi/L, g, F):	11.065
Uncertainty (Calculated):	0.133
Result (pCi/L, g, F):	10.275
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.121
Numerical Performance Indicator:	-1.37
Percent Recovery:	92.86%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Duplicate Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

DL 4/9/21

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1 2/22/2021
Sample I.D.:	MS/MSD 2 3/8/2021
Sample MS I.D.:	92527915001
Sample MSD I.D.:	92527915002
Spike I.D.:	92527915003
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	19-033
Spike Volume Used in MS (mL):	24.040
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.20
MS Target Conc. (pCi/L, g, F):	0.210
MSD Aliquot (L, g, F):	23.367
MSD Target Conc. (pCi/L, g, F):	22.844
MSD Counting Uncertainty (calculated):	0.212
MSD Spike Uncertainty (calculated):	22.686
MSD Spike Uncertainty (calculated):	0.280
MSD Spike Uncertainty (calculated):	0.272
Sample Result Counting Uncertainty (pCi/L, g, F):	0.112
Sample Matrix Spike Result:	0.168
Sample Matrix Spike Result:	24.772
Sample Matrix Spike Duplicate Result:	1.663
Sample Matrix Spike Duplicate Result:	22.181
MS Numerical Performance Indicator:	1.513
MS Numerical Performance Indicator:	1.495
MS Numerical Performance Indicator:	-0.782
MS Percent Recovery:	105.53%
MSD Percent Recovery:	97.28%
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.:	92527915001
Sample MS I.D.:	92527915002
Sample MSD I.D.:	92527915003
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	21.941
Sample Matrix Spike Duplicate Result:	1.563
Sample Matrix Spike Duplicate Result:	24.134
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.655
Duplicate Numerical Performance Indicator:	-1.888
Duplicate Numerical Performance Indicator:	10.78%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/19/2021
Worklist: 59400
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2120877
MB concentration:	0.231
M/B Counting Uncertainty:	0.216
MB MDC:	0.421
MB Numerical Performance Indicator:	2.10
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS59400	LCS59400
Count Date:	4/12/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.038
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.209
Target Conc. (pCi/L, g, F):	11.488
Uncertainty (Calculated):	0.138
Result (pCi/L, g, F):	11.430
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.122
Numerical Performance Indicator:	-0.10
Percent Recovery:	99.49%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	Pass
Lower % Recovery Limits:	125%
	75%

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 Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample I.D.	3/8/2021
Sample MS I.D.	92527912001
Sample MSD I.D.	92527912002
	92527912003
Spike I.D.:	19-033
MS/MSD Decay Corrected Concentration (pCi/mL):	24.039
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.206
MS Target Conc. (pCi/L, g, F):	23.367
MSD Aliquot (L, g, F):	0.217
MSD Target Conc. (pCi/L, g, F):	22.121
MS Spike Uncertainty (calculated):	0.280
MSD Spike Uncertainty (calculated):	0.265
Sample Result Counting Uncertainty (pCi/L, g, F):	0.267
Sample Matrix Spike Result:	0.261
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	22.706
Sample Matrix Spike Result:	1.587
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	22.914
Sample Matrix Spike Duplicate Result:	1.526
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	-1.114
MS Numerical Performance Indicator:	0.656
MSD Numerical Performance Indicator:	96.03%
MS Percent Recovery:	102.38%
MSD Percent Recovery:	N/A
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	Pass
MS/MSD Upper % Recovery Limits:	125%
MS/MSD Lower % Recovery Limits:	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	MS/MSD 2
Sample MS I.D.	3/8/2021
Sample MSD I.D.	92527910002
	92527910003
	92527910004
Spike I.D.:	19-033
MS/MSD Decay Corrected Concentration (pCi/mL):	24.039
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.213
MS Target Conc. (pCi/L, g, F):	22.608
MSD Aliquot (L, g, F):	0.213
MSD Target Conc. (pCi/L, g, F):	22.545
MS Spike Uncertainty (calculated):	0.271
MSD Spike Uncertainty (calculated):	0.271
Sample Result Counting Uncertainty (pCi/L, g, F):	-0.088
Sample Matrix Spike Result:	0.133
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	24.842
Sample Matrix Spike Duplicate Result:	1.631
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	20.845
MS Numerical Performance Indicator:	1.467
MSD Numerical Performance Indicator:	2.743
MS Percent Recovery:	-2.108
MSD Percent Recovery:	110.27%
MS Status vs Numerical Indicator:	92.85%
MSD Status vs Numerical Indicator:	N/A
MS/MSD Upper % Recovery Limits:	N/A
MS/MSD Lower % Recovery Limits:	Pass
	Pass
	125%
	75%

Handwritten signature: Robert M. [unclear]

Handwritten signature: Amy [unclear]

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 4/7/2021
Worksheet: 59401
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2120880
MB concentration:	0.389
M/B 2 Sigma CSU:	0.401
MB MDC:	0.833
MB Numerical Performance Indicator:	1.90
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	N
Count Date:	4/12/2021	LCSD59401	
Spike I.D.:	21-003	LCSD59401	
Decay Corrected Spike Concentration (pCi/mL):	38.104		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.811		
Target Conc. (pCi/L, g, F):	4.700		
Uncertainty (Calculated):	0.230		
Result (pCi/L, g, F):	5.000		
LCSD/MSD 2 Sigma CSU (pCi/L, g, F):	1.136		
Numerical Performance Indicator:	0.51		
Percent Recovery:	106.38%		
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 LCSD/MSD in the space below.
Sample I.D.:	Sample I.D.:	
Duplicate Sample I.D.:	Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:	
Duplicate RPD:	Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	Duplicate Status vs RPD:	
% RPD Limit:	% RPD Limit:	

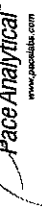
Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/8/2021		
Sample I.D.:	92527912001		
Sample MS I.D.:	92527912002		
Sample MSD I.D.:	92527912003		
Spike I.D.:	21-003		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.546		
Spike Volume Used in MS (mL):	0.20		
MS Aliquot (L, g, F):	0.817		
MS Target Conc. (pCi/L, g, F):	9.431		
MSD Aliquot (L, g, F):	0.819		
MSD Target Conc. (pCi/L, g, F):	9.412		
MS Spike Uncertainty (calculated):	0.462		
MSD Spike Uncertainty (calculated):	0.461		
Sample Result:	1.788		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.573		
Sample Matrix Spike Result:	12.034		
Sample Matrix Spike Duplicate Result:	2.356		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	10.827		
MS Numerical Performance Indicator:	2.135		
MSD Numerical Performance Indicator:	0.647		
MS Percent Recovery:	-0.323		
MSD Percent Recovery:	108.64%		
MS Status vs Numerical Indicator:	96.04%		
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		MS/MSD 1	MS/MSD 2
Sample I.D.:	92527912001		
Sample MS I.D.:	92527912002		
Sample MSD I.D.:	92527912003		
Sample Matrix Spike Result:	12.034		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.356		
Sample Matrix Spike Duplicate Result:	10.827		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.135		
Duplicate Numerical Performance Indicator:	0.744		
Duplicate Numerical Performance Indicator:	12.31%		
(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:

MAN/2/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/31/2021
Worklist: 59403
Matrix: WT

Method Blank Assessment	
MB Sample ID	2120864
MB concentration:	0.606
M/B 2 Sigma CSU:	0.355
MB MDC:	0.651
MB Numerical Performance Indicator:	3.34
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	N
Count Date:		4/6/2021	LCSD59403
Spike I.D.:	21-003		
Decay Corrected Spike Concentration (pCi/mL):	38.178		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.809		
Target Conc. (pCi/L, g, F):	4.716		
Result (pCi/L, g, F):	0.231		
Uncertainty (Calculated):	3.649		
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.903		
Numerical Performance Indicator:	-2.24		
Percent Recovery:	77.38%		
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 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?		
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:		2/22/2021	3/8/2021
Sample I.D.:		92527335002	92527915001
Sample MS I.D.:		92527335004	92527915002
Sample MSD I.D.:		92527335005	92527915003
Spike I.D.:		21-003	21-003
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		36.726	38.726
Spike Volume Used in MS (mL):		0.20	0.20
Spike Volume Used in MSD (mL):		0.20	0.20
MS Aliquot (L, g, F):		0.818	0.802
MS Target Conc. (pCi/L, g, F):		9.473	9.653
MSD Aliquot (L, g, F):		0.815	0.811
MSD Target Conc. (pCi/L, g, F):		9.503	9.546
MS Spike Uncertainty (calculated):		0.464	0.473
MSD Spike Uncertainty (calculated):		0.466	0.468
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.644	0.448
Sample Matrix Spike Result:		0.430	0.386
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		8.624	8.096
Sample Matrix Spike Duplicate Result:		1.758	1.655
Sample Matrix Spike Duplicate Result:		7.188	8.441
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.484	1.697
MS Numerical Performance Indicator:		-1.567	-2.228
MSD Numerical Performance Indicator:		-3.593	-1.689
MS Percent Recovery:		84.24%	79.23%
MSD Percent Recovery:		68.87%	83.73%
MS Status vs Numerical Indicator:		Pass	Warning
MSD Status vs Numerical Indicator:		Fail****	Pass
MS Status vs Recovery:		Pass	Pass
MSD Status vs Recovery:		Pass	Pass
MS/MSD Upper % Recovery Limits:		135%	135%
MS/MSD Lower % Recovery Limits:		60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		MS/MSD 1	MS/MSD 2
Sample I.D.:		92527335002	92527915001
Sample MS I.D.:		92527335004	92527915002
Sample MSD I.D.:		92527335005	92527915003
Spike I.D.:		21-003	21-003
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		8.624	8.096
Sample Matrix Spike Duplicate Result:		1.758	1.655
Sample Matrix Spike Duplicate Result:		7.188	8.441
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.484	1.697
Duplicate Numerical Performance Indicator:		20.08%	5.52%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		Pass	Pass
MS/MSD Duplicate Status vs Numerical Indicator:		Pass	Pass
MS/MSD Duplicate Status vs RPD:		Pass	Pass
% RPD Limit:		36%	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MIDC.

Comments:

*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.

MB activity < MDC - Pass
04/17/21

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

Analytical Report



Sample Group : WMWGREAP_1314

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

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

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

April 20, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2021. 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, 2021

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

Sincerely,

Quality Control:

Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lbrmidkif@southernco.com, c=US
Date: 2021.04.20 11:19:25 -05'00'

Supervision:

T. Durant
Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.04.20 13:25:48 -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

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	695236	WMWGREAP_1314
BB05080	695236	WMWGREAP_1314
BB05081	695236	WMWGREAP_1314
BB05082	695236	WMWGREAP_1314
BB05083	695236	WMWGREAP_1314
BB05084	695236	WMWGREAP_1314
BB05085	695236	WMWGREAP_1314

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 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.
- 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. 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>
BB05084	Calcium	10.15

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

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	695214	WMWGREAP_1314
BB05080	695214	WMWGREAP_1314
BB05082	695214	WMWGREAP_1314
BB05083	695214	WMWGREAP_1314
BB05084	695214	WMWGREAP_1314

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 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 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.
 - 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.

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	694422	WMWGREAP_1314
BB05080	694422	WMWGREAP_1314
BB05081	694422	WMWGREAP_1314
BB05082	694422	WMWGREAP_1314
BB05083	694422	WMWGREAP_1314
BB05084	694422	WMWGREAP_1314
BB05085	694422	WMWGREAP_1314

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.

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. 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>
BB05080	Manganese	5.075
BB05084	Manganese	10.15

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

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	694393	WMWGREAP_1314
BB05080	694393	WMWGREAP_1314
BB05082	694393	WMWGREAP_1314
BB05083	694393	WMWGREAP_1314
BB05084	694393	WMWGREAP_1314

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.

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 invalid.
 - BB05084 Manganese MS/MSD spike level was less than 30% of the sample nominal concentration.
 - 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>
BB05080	Manganese	5.075
BB05084	Manganese	10.15

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

Mercury

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	694249	WMWGREAP_1314
BB05080	694249	WMWGREAP_1314
BB05081	694249	WMWGREAP_1314
BB05082	694249	WMWGREAP_1314
BB05083	694249	WMWGREAP_1314
BB05084	694249	WMWGREAP_1314
BB05085	694249	WMWGREAP_1314

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.
 8. The raw data results are shown with dilution factors included.

TDS

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	693753	WMWGREAP_1314
BB05080	693753	WMWGREAP_1314
BB05081	693753	WMWGREAP_1314
BB05082	693753	WMWGREAP_1314
BB05083	693753	WMWGREAP_1314
BB05084	693753	WMWGREAP_1314
BB05085	693753	WMWGREAP_1314

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB05081
 - BB05085

Anions

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	693769, 693777, & 694007	WMWGREAP_1314
BB05080	693769, 693777, & 694007	WMWGREAP_1314
BB05081	693769, 693777, & 694007	WMWGREAP_1314
BB05082	693769, 693777, & 694007	WMWGREAP_1314
BB05083	693769, 693777, & 694007	WMWGREAP_1314
BB05084	693769, 693777, & 694007	WMWGREAP_1314
BB05085	693769, 693777, & 694007	WMWGREAP_1314

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4.
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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
 - A sample duplicate was analyzed with each batch. 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>
BB05080	Sulfate	4
BB05084	Sulfate	16

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

Alkalinity

Greene County Ash Pond

WMWGREAP_1314

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>
BB05079	694176 & 694177	WMWGREAP_1314
BB05080	694176 & 694177	WMWGREAP_1314
BB05082	694176 & 694177	WMWGREAP_1314
BB05083	694176 & 694177	WMWGREAP_1314
BB05084	694176 & 694177	WMWGREAP_1314

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were 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.

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 3/8/21 14:19
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05079

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:42		1.015	0.0769	mg/L	0.030000	0.1015	J
* Calcium, Total	3/30/21 11:18	3/31/21 13:42		1.015	12.9	mg/L	0.070035	0.406	
* Iron, Total	3/30/21 11:18	3/31/21 13:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 13:42		1.015	0.0456	mg/L	0.007105	0.019999	
* Magnesium, Total	3/30/21 11:18	3/31/21 13:42		1.015	3.48	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:42		1.015	7.76	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:10		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:39		1.015	0.000152	mg/L	0.000068	0.000203	J
* Barium, Total	3/12/21 08:14	3/15/21 11:39		1.015	0.0229	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:14	3/15/21 11:39		1.015	2.51	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 11:39		1.015	0.181	mg/L	0.000068	0.000203	
* Selenium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 11:07		1.015	0.165	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	16.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	93.3	mg/L		25	

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 3/8/21 14:19
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05079

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10	1		16.2	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10	1		0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:44	3/11/21 11:44	1		8.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:21	3/11/21 15:21	1		Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:13	3/16/21 11:13	1		31.4	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/8/21 14:14	3/8/21 14:14			142.60	uS/cm			FA
pH	3/8/21 14:14	3/8/21 14:14			5.74	SU			FA
Temperature	3/8/21 14:14	3/8/21 14:14			18.77	C			FA
Turbidity	3/8/21 14:14	3/8/21 14:14			1.19	NTU			FA

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/8/21 14:19

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BB05079

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Barium, Total	mg/L	0.0000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/8/21 14:19

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BB05079

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.0500	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Chloride	mg/L	-0.00456	0.500	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	0.500	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 3/8/21 15:21
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05080

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	3/30/21 11:18	3/31/21 13:45		1.015	0.302	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 13:45		1.015	32.7	mg/L	0.070035	0.406	
* Iron, Total	3/30/21 11:18	3/31/21 13:45		1.015	0.172	mg/L	0.008120	0.0406	
* Lithium, Total	3/30/21 11:18	3/31/21 13:45		1.015	0.119	mg/L	0.007105	0.019999	
* Magnesium, Total	3/30/21 11:18	3/31/21 13:45		1.015	5.37	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:45		1.015	22.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:13		1.015	0.0105	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.000267	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.0685	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.000287	mg/L	0.000068	0.000203	
* Chromium, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.000280	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.00553	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:14	3/15/21 11:42		1.015	0.000122	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:14	3/15/21 11:42		1.015	5.00	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 14:40		5.075	4.09	mg/L	0.000340	0.001015	
* Selenium, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	3/12/21 14:20	3/15/21 14:27		5.075	4.24	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	70.3	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	218	mg/L		25	

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 3/8/21 15:21
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05080

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	70.3	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.03	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:45	3/11/21 11:45		1	13.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:23	3/11/21 15:23		1	0.127	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:24	3/16/21 11:24		4	71.5	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/8/21 15:18	3/8/21 15:18			341.75	uS/cm			FA
pH	3/8/21 15:18	3/8/21 15:18			6.36	SU			FA
Temperature	3/8/21 15:18	3/8/21 15:18			17.83	C			FA
Turbidity	3/8/21 15:18	3/8/21 15:18			3.31	NTU			FA

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
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 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/8/21 15:21

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BB05080

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Barium, Total	mg/L	0.0000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/8/21 15:21

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BB05080

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.0500	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Chloride	mg/L	-0.00456	0.500	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	0.500	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/8/21 15:35
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05081

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 13:49		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 08:14	3/15/21 11:44		1.015	0.0000714	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:47	3/11/21 11:47		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:24	3/11/21 15:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:15	3/16/21 11:15		1	Not Detected	mg/L	0.50	1	U

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 15:35

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05081

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Barium, Total	mg/L	0.0000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAPFB

Sample Date: 3/8/21 15:35

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB05081

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.0500	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Chloride	mg/L	-0.00456	0.500	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	0.500	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 3/9/21 09:13
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05082

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:52		1.015	0.0397	mg/L	0.030000	0.1015	J
* Calcium, Total	3/30/21 11:18	3/31/21 13:52		1.015	2.62	mg/L	0.070035	0.406	
* Iron, Total	3/30/21 11:18	3/31/21 13:52		1.015	0.0268	mg/L	0.008120	0.0406	J
* Lithium, Total	3/30/21 11:18	3/31/21 13:52		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:52		1.015	1.70	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:52		1.015	6.45	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.000130	mg/L	0.000068	0.000203	J
* Barium, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.0404	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.000619	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.000738	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.0000875	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:14	3/15/21 11:47		1.015	2.22	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 11:47		1.015	0.00926	mg/L	0.000068	0.000203	
* Selenium, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 11:13		1.015	0.00866	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	8.52	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	52.0	mg/L		25	

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 3/9/21 09:13
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05082

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	8.52	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 11:48	3/11/21 11:48		1	5.06	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:25	3/11/21 15:25		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:16	3/16/21 11:16		1	9.20	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/9/21 09:09	3/9/21 09:09			67.04	uS/cm			FA
pH	3/9/21 09:09	3/9/21 09:09			5.13	SU			FA
Temperature	3/9/21 09:09	3/9/21 09:09			18.42	C			FA
Turbidity	3/9/21 09:09	3/9/21 09:09			3.54	NTU			FA

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:13

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BB05082

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Barium, Total	mg/L	0.000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:13

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BB05082

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.0500	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Chloride	mg/L	-0.00456	0.500	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	0.500	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-55HO DUP

Location Code: WMWGREAP
Collected: 3/9/21 09:13
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05083

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	3/30/21 11:18	3/31/21 13:55		1.015	0.0397	mg/L	0.030000	0.1015	J
* Calcium, Total	3/30/21 11:18	3/31/21 13:55		1.015	2.70	mg/L	0.070035	0.406	
* Iron, Total	3/30/21 11:18	3/31/21 13:55		1.015	0.0314	mg/L	0.008120	0.0406	J
* Lithium, Total	3/30/21 11:18	3/31/21 13:55		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:55		1.015	1.73	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:55		1.015	6.48	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.000111	mg/L	0.000068	0.000203	J
* Barium, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.0383	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.000633	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.000705	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.0000758	mg/L	0.000068	0.000203	J
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	3/12/21 08:14	3/15/21 11:50		1.015	2.22	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 11:50		1.015	0.00907	mg/L	0.000068	0.000203	
* Selenium, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	3/12/21 14:20	3/15/21 11:15		1.015	0.00849	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	11.4	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	52.0	mg/L		25	

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-55HO DUP

Location Code: WMWGREAP
Collected: 3/9/21 09:13
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05083

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	11.4	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	3/11/21 11:49	3/11/21 11:49		1	5.05	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:26	3/11/21 15:26		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:17	3/16/21 11:17		1	9.12	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/9/21 09:09	3/9/21 09:09			67.04	uS/cm			FA
pH	3/9/21 09:09	3/9/21 09:09			5.13	SU			FA
Temperature	3/9/21 09:09	3/9/21 09:09			18.42	C			FA
Turbidity	3/9/21 09:09	3/9/21 09:09			3.54	NTU			FA

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:13

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-55HO DUP

Laboratory ID Number: BB05083

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Barium, Total	mg/L	0.000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/9/21 09:13

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-55HO DUP

Laboratory ID Number: BB05083

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.0500	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Chloride	mg/L	-0.00456	0.500	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0
BB05085	Sulfate	mg/L	-0.214	0.500	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP

Collected: 3/9/21 11:20

Customer ID:

Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05084

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 13:59		1.015	0.192	mg/L	0.030000	0.1015	
* Calcium, Total	3/30/21 11:18	3/31/21 14:58		10.15	60.5	mg/L	0.70035	4.06	
* Iron, Total	3/30/21 11:18	3/31/21 13:59		1.015	0.538	mg/L	0.008120	0.0406	
* Lithium, Total	3/30/21 11:18	3/31/21 13:59		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 13:59		1.015	15.7	mg/L	0.021315	0.406	
* Sodium, Total	3/30/21 11:18	3/31/21 13:59		1.015	29.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	3/30/21 10:45	3/30/21 14:23		1.015	0.0903	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:52		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.00103	mg/L	0.000068	0.000203	
* Barium, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.0795	mg/L	0.000101	0.000203	
* Beryllium, Total	3/12/21 08:14	3/15/21 11:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.0000708	mg/L	0.000068	0.000203	J
* Chromium, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.000256	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.0263	mg/L	0.000068	0.000203	
* Lead, Total	3/12/21 08:14	3/15/21 11:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.000127	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:14	3/15/21 11:52		1.015	4.10	mg/L	0.169505	0.5075	
* Manganese, Total	3/12/21 08:14	3/15/21 14:42		10.15	10.7	mg/L	0.000680	0.00203	
* Selenium, Total	3/12/21 08:14	3/15/21 11:52		1.015	0.000652	mg/L	0.000507	0.001015	J
* Thallium, Total	3/12/21 08:14	3/15/21 11:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	3/12/21 14:20	3/15/21 14:29		10.15	10.6	mg/L	0.000680	0.00203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	3/18/21 10:52	3/18/21 11:10		1	65.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	386	mg/L		25	

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

Comments: Revised Copy:

Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP
Collected: 3/9/21 11:20
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05084

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	65.3	mg/L			
Carbonate Alkalinity, (calc.)	3/18/21 10:52	3/18/21 11:10		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/11/21 11:50	3/11/21 11:50		1	10.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/11/21 15:27	3/11/21 15:27		1	0.0715	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/16/21 11:25	3/16/21 11:25		16	202	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/9/21 11:17	3/9/21 11:17			495.60	uS/cm			FA
pH	3/9/21 11:17	3/9/21 11:17			5.94	SU			FA
Temperature	3/9/21 11:17	3/9/21 11:17			17.20	C			FA
Turbidity	3/9/21 11:17	3/9/21 11:17			6.66	NTU			FA

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
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 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/9/21 11:20

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BB05084

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Barium, Total	mg/L	0.000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05084	Iron, Dissolved	mg/L	0.000887	0.0176	0.2	0.288	0.289	0.207	0.170 to 0.230	99.0	70.0 to 130	0.221	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0
BB05084	Manganese, Dissolved	mg/L	0.0000062	0.000147	0.10	10.4	10.3	0.100	0.0850 to 0.115	-200	70.0 to 130	0.966	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAP

Sample Date: 3/9/21 11:20

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BB05084

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.0500	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05084	Alkalinity, Total as CaCO3	mg/L					67.4	51.0	45.0 to 55.0			3.17	10.0
BB05085	Chloride	mg/L	-0.00456	0.500	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Sulfate	mg/L	-0.214	0.500	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21
 The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 LBM 4/16/21

Certificate Of Analysis

Revised Copy

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/9/21 11:50
Customer ID:
Submittal Date: 3/10/21 14:13

Laboratory ID Number: BB05085

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.007105	0.019999	U
* Magnesium, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	3/30/21 11:18	3/31/21 14:02		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Arsenic, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000101	0.000203	U
* Beryllium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/12/21 08:14	3/15/21 11:55		1.015	0.000106	mg/L	0.000068	0.000203	J
* Potassium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000507	0.001015	U
* Thallium, Total	3/12/21 08:14	3/15/21 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	3/19/21 10:28	3/19/21 15:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	3/11/21 17:00	3/15/21 08:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	3/11/21 11:51	3/11/21 11:51		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	3/11/21 15:29	3/11/21 15:29		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	3/16/21 11:20	3/16/21 11:20		1	Not Detected	mg/L	0.50	1	U

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

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAPEB

Sample Date: 3/9/21 11:50

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05085

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB05085	Sodium, Total	mg/L	0.00461	0.0660	5.00	5.03	5.02	5.00	4.25 to 5.75	101	70.0 to 130	0.199	20.0
BB05085	Barium, Total	mg/L	0.000069	0.000200	0.10	0.108	0.104	0.103	0.0850 to 0.115	108	70.0 to 130	3.88	20.0
BB05085	Beryllium, Total	mg/L	0.0000187	0.000880	0.10	0.0928	0.0942	0.0931	0.0850 to 0.115	92.8	70.0 to 130	1.48	20.0
BB05085	Calcium, Total	mg/L	0.0460	0.152	5.00	4.92	4.84	5.20	4.25 to 5.75	98.4	70.0 to 130	1.64	20.0
BB05085	Mercury, Total by CVAA	mg/L	0.0000646	0.000500	0.004	0.00436	0.00434	0.00419	0.00340 to 0.00460	109	70.0 to 130	0.460	20.0
BB05085	Magnesium, Total	mg/L	-0.000240	0.0462	5.00	4.94	4.89	5.09	4.25 to 5.75	98.8	70.0 to 130	1.02	20.0
BB05085	Selenium, Total	mg/L	0.0000322	0.00100	0.10	0.100	0.0995	0.0993	0.0850 to 0.115	100	70.0 to 130	0.786	20.0
BB05085	Thallium, Total	mg/L	-0.000180	0.000147	0.10	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	1.08	20.0
BB05085	Cobalt, Total	mg/L	-0.000208	0.000147	0.10	0.104	0.107	0.109	0.0850 to 0.115	104	70.0 to 130	2.61	20.0
BB05085	Lithium, Total	mg/L	0.0000580	0.0154	0.200	0.202	0.202	0.202	0.170 to 0.230	101	70.0 to 130	0.00	20.0
BB05085	Arsenic, Total	mg/L	0.000052	0.000147	0.10	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.145	20.0
BB05085	Boron, Total	mg/L	0.00840	0.0650	1.00	0.991	0.998	1.02	0.850 to 1.15	99.1	70.0 to 130	0.704	20.0
BB05085	Iron, Total	mg/L	0.000960	0.0176	0.2	0.199	0.196	0.207	0.170 to 0.230	99.5	70.0 to 130	1.52	20.0
BB05085	Potassium, Total	mg/L	0.00488	0.367	10.0	10.1	10.2	10.4	8.50 to 11.5	101	70.0 to 130	0.999	20.0
BB05085	Manganese, Total	mg/L	0.0000351	0.000147	0.10	0.0989	0.101	0.102	0.0850 to 0.115	98.8	70.0 to 130	2.29	20.0
BB05085	Molybdenum, Total	mg/L	0.0000091	0.000147	0.10	0.0955	0.0958	0.0979	0.0850 to 0.115	95.5	70.0 to 130	0.351	20.0
BB05085	Cadmium, Total	mg/L	0.0000042	0.000147	0.10	0.0996	0.101	0.104	0.0850 to 0.115	99.6	70.0 to 130	0.961	20.0
BB05085	Chromium, Total	mg/L	-0.0000793	0.000440	0.10	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	1.32	20.0
BB05085	Lead, Total	mg/L	0.0000049	0.000147	0.10	0.107	0.106	0.107	0.0850 to 0.115	107	70.0 to 130	0.632	20.0
BB05085	Antimony, Total	mg/L	0.000155	0.00100	0.10	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.398	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Batch QC Summary

Revised Copy

Customer Account: WMWGREAPEB

Sample Date: 3/9/21 11:50

Customer ID:

Delivery Date: 3/10/21 14:13

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB05085

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB05085	Fluoride	mg/L	0.0342	0.0500	2.50	2.58	0.0259	2.65	2.25 to 2.75	103	80.0 to 120	0.00	20.0
BB05085	Chloride	mg/L	-0.00456	0.500	10.0	10.0	0.0677	10.1	9.00 to 11.0	100	80.0 to 120	0.00	20.0
BB05084	Solids, Dissolved	mg/L	-1.00	25.0			385	52.0	40.0 to 60.0			0.130	5.00
BB05085	Sulfate	mg/L	-0.214	0.500	20.0	18.8	-0.244	19.0	18.0 to 22.0	94.0	80.0 to 120	0.00	20.0

Comments: Revised Copy:
 Correcting Chloride, Fluoride, and Sulfate MB limits. Original report was created on 4/16/21 and posted on 4/19/21. LBM 4/20/21

Definitions

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.
J	Reported value is an estimate because concentration is less than reporting 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
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-47HO	03/08/2021	14:19	6	Groundwater		BB05079
MW-50HO	03/08/2021	15:21	6	Groundwater		BB05080
FB-1	03/08/2021	15:35	4	Field Blank		BB05081
MW-55HO	03/09/2021	09:13	6	Groundwater		BB05082
MW-55HO dup	03/09/2021	09:13	6	Sample Duplicate		BB05083
MW-59 HO	03/09/2021	11:20	6	Groundwater		BB05084
EB-1	03/09/2021	11:50	4	Equipment Blank		BB05085

Relinquished By	Received By	Date/Time
		03/09/2021 15:23
		03/10/2021 10:25

SmarTroll ID	7586-41442-5-1
Turbidity ID	3901-20010-2-2
Sample Event	1314

All metals and radiological bottles have pH < 2

Cooler Temp	0.2 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8206-45803-10-7



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	Dallas Gentry		Greene 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-47HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-47HO	03/08/2021	14:19	3	Groundwater		BB05086
MW-50HO	03/08/2021	15:21	1	Groundwater		BB05087
FB-1	03/08/2021	15:35	1	Field Blank		BB05088
MW-55HO	03/09/2021	09:13	1	Groundwater		BB05089
MW-55HO dup	03/09/2021	09:13	1	Sample Duplicate		BB05090
MW-59 HO	03/09/2021	11:20	1	Groundwater		BB05091
EB-1	03/09/2021	11:50	1	Equipment Blank		BB05092

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	03/09/2021 15:23
<i>[Signature]</i>	<i>[Signature]</i>	03/10/2021 10:22

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1314		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8206-45803-10-7

Bottles/Pre-Preserved Bottles are provided by the GTL

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-6	3/9/2021 8:43	Conductivity	795.45	uS/cm
GC-AP-MW-6	3/9/2021 8:43	DO	2.02	mg/L
GC-AP-MW-6	3/9/2021 8:43	Depth to Water Detail	10.7	ft
GC-AP-MW-6	3/9/2021 8:43	Oxidation Reduction Potention	155.56	mv
GC-AP-MW-6	3/9/2021 8:43	pH	6.38	SU
GC-AP-MW-6	3/9/2021 8:43	Temperature	19.48	C
GC-AP-MW-6	3/9/2021 8:43	Turbidity	1.84	NTU
GC-AP-MW-6	3/9/2021 8:48	Conductivity	917.14	uS/cm
GC-AP-MW-6	3/9/2021 8:48	DO	1.22	mg/L
GC-AP-MW-6	3/9/2021 8:48	Depth to Water Detail	10.7	ft
GC-AP-MW-6	3/9/2021 8:48	Oxidation Reduction Potention	135.33	mv
GC-AP-MW-6	3/9/2021 8:48	pH	6.42	SU
GC-AP-MW-6	3/9/2021 8:48	Temperature	19.66	C
GC-AP-MW-6	3/9/2021 8:48	Turbidity	0.74	NTU
GC-AP-MW-6	3/9/2021 8:53	Conductivity	942.49	uS/cm
GC-AP-MW-6	3/9/2021 8:53	DO	0.97	mg/L
GC-AP-MW-6	3/9/2021 8:53	Depth to Water Detail	10.7	ft
GC-AP-MW-6	3/9/2021 8:53	Oxidation Reduction Potention	121.72	mv
GC-AP-MW-6	3/9/2021 8:53	pH	6.42	SU
GC-AP-MW-6	3/9/2021 8:53	Temperature	19.76	C
GC-AP-MW-6	3/9/2021 8:53	Turbidity	0.49	NTU
GC-AP-MW-6	3/9/2021 8:58	Conductivity	973.56	uS/cm
GC-AP-MW-6	3/9/2021 8:58	DO	0.84	mg/L
GC-AP-MW-6	3/9/2021 8:58	Depth to Water Detail	10.7	ft
GC-AP-MW-6	3/9/2021 8:58	Oxidation Reduction Potention	113.12	mv
GC-AP-MW-6	3/9/2021 8:58	pH	6.43	SU
GC-AP-MW-6	3/9/2021 8:58	Temperature	19.81	C
GC-AP-MW-6	3/9/2021 8:58	Turbidity	0.5	NTU
GC-AP-MW-6	3/9/2021 9:03	Conductivity	1067.09	uS/cm
GC-AP-MW-6	3/9/2021 9:03	DO	0.77	mg/L
GC-AP-MW-6	3/9/2021 9:03	Depth to Water Detail	10.7	ft
GC-AP-MW-6	3/9/2021 9:03	Oxidation Reduction Potention	108.62	mv
GC-AP-MW-6	3/9/2021 9:03	pH	6.43	SU
GC-AP-MW-6	3/9/2021 9:03	Temperature	19.94	C
GC-AP-MW-6	3/9/2021 9:03	Turbidity	0.36	NTU
GC-AP-MW-6	3/9/2021 9:08	Conductivity	1089.42	uS/cm
GC-AP-MW-6	3/9/2021 9:08	DO	0.72	mg/L
GC-AP-MW-6	3/9/2021 9:08	Depth to Water Detail	10.7	ft
GC-AP-MW-6	3/9/2021 9:08	Oxidation Reduction Potention	106.52	mv
GC-AP-MW-6	3/9/2021 9:08	pH	6.43	SU
GC-AP-MW-6	3/9/2021 9:08	Temperature	19.9	C
GC-AP-MW-6	3/9/2021 9:08	Turbidity	0.45	NTU
GC-AP-MW-6	3/9/2021 9:13	Conductivity	1093.4	uS/cm
GC-AP-MW-6	3/9/2021 9:13	DO	0.66	mg/L

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-6	3/9/2021 9:13	Depth to Water Detail	10.7	ft
GC-AP-MW-6	3/9/2021 9:13	Oxidation Reduction Potention	104.84	mv
GC-AP-MW-6	3/9/2021 9:13	pH	6.43	SU
GC-AP-MW-6	3/9/2021 9:13	Temperature	19.92	C
GC-AP-MW-6	3/9/2021 9:13	Turbidity	0.59	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-7	3/9/2021 9:57	Conductivity	1539.72	uS/cm
GC-AP-MW-7	3/9/2021 9:57	DO	0.75	mg/L
GC-AP-MW-7	3/9/2021 9:57	Depth to Water Detail	10.72	ft
GC-AP-MW-7	3/9/2021 9:57	Oxidation Reduction Potention	125.69	mv
GC-AP-MW-7	3/9/2021 9:57	pH	6.41	SU
GC-AP-MW-7	3/9/2021 9:57	Temperature	19.27	C
GC-AP-MW-7	3/9/2021 9:57	Turbidity	0.33	NTU
GC-AP-MW-7	3/9/2021 10:02	Conductivity	1534.46	uS/cm
GC-AP-MW-7	3/9/2021 10:02	DO	0.7	mg/L
GC-AP-MW-7	3/9/2021 10:02	Depth to Water Detail	10.72	ft
GC-AP-MW-7	3/9/2021 10:02	Oxidation Reduction Potention	120.68	mv
GC-AP-MW-7	3/9/2021 10:02	pH	6.42	SU
GC-AP-MW-7	3/9/2021 10:02	Temperature	19.27	C
GC-AP-MW-7	3/9/2021 10:02	Turbidity	0.26	NTU
GC-AP-MW-7	3/9/2021 10:07	Conductivity	1546.25	uS/cm
GC-AP-MW-7	3/9/2021 10:07	DO	0.6	mg/L
GC-AP-MW-7	3/9/2021 10:07	Depth to Water Detail	10.72	ft
GC-AP-MW-7	3/9/2021 10:07	Oxidation Reduction Potention	118.32	mv
GC-AP-MW-7	3/9/2021 10:07	pH	6.44	SU
GC-AP-MW-7	3/9/2021 10:07	Temperature	19.34	C
GC-AP-MW-7	3/9/2021 10:07	Turbidity	0.24	NTU
GC-AP-MW-7	3/9/2021 10:12	Conductivity	1551.14	uS/cm
GC-AP-MW-7	3/9/2021 10:12	DO	0.53	mg/L
GC-AP-MW-7	3/9/2021 10:12	Depth to Water Detail	10.72	ft
GC-AP-MW-7	3/9/2021 10:12	Oxidation Reduction Potention	116.3	mv
GC-AP-MW-7	3/9/2021 10:12	pH	6.45	SU
GC-AP-MW-7	3/9/2021 10:12	Temperature	19.36	C
GC-AP-MW-7	3/9/2021 10:12	Turbidity	0.23	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-8	3/9/2021 10:47	Conductivity	1012.72	uS/cm
GC-AP-MW-8	3/9/2021 10:47	DO	0.97	mg/L
GC-AP-MW-8	3/9/2021 10:47	Depth to Water Detail	10.59	ft
GC-AP-MW-8	3/9/2021 10:47	Oxidation Reduction Potention	122.96	mv
GC-AP-MW-8	3/9/2021 10:47	pH	6.27	SU
GC-AP-MW-8	3/9/2021 10:47	Temperature	19.85	C
GC-AP-MW-8	3/9/2021 10:47	Turbidity	0.23	NTU
GC-AP-MW-8	3/9/2021 10:52	Conductivity	1022.46	uS/cm
GC-AP-MW-8	3/9/2021 10:52	DO	0.79	mg/L
GC-AP-MW-8	3/9/2021 10:52	Depth to Water Detail	10.59	ft
GC-AP-MW-8	3/9/2021 10:52	Oxidation Reduction Potention	121	mv
GC-AP-MW-8	3/9/2021 10:52	pH	6.28	SU
GC-AP-MW-8	3/9/2021 10:52	Temperature	19.86	C
GC-AP-MW-8	3/9/2021 10:52	Turbidity	0.24	NTU
GC-AP-MW-8	3/9/2021 10:57	Conductivity	1033.34	uS/cm
GC-AP-MW-8	3/9/2021 10:57	DO	0.68	mg/L
GC-AP-MW-8	3/9/2021 10:57	Depth to Water Detail	10.59	ft
GC-AP-MW-8	3/9/2021 10:57	Oxidation Reduction Potention	117.72	mv
GC-AP-MW-8	3/9/2021 10:57	pH	6.3	SU
GC-AP-MW-8	3/9/2021 10:57	Temperature	19.9	C
GC-AP-MW-8	3/9/2021 10:57	Turbidity	0.22	NTU
GC-AP-MW-8	3/9/2021 11:02	Conductivity	1050.17	uS/cm
GC-AP-MW-8	3/9/2021 11:02	DO	0.6	mg/L
GC-AP-MW-8	3/9/2021 11:02	Depth to Water Detail	10.59	ft
GC-AP-MW-8	3/9/2021 11:02	Oxidation Reduction Potention	111.79	mv
GC-AP-MW-8	3/9/2021 11:02	pH	6.31	SU
GC-AP-MW-8	3/9/2021 11:02	Temperature	19.9	C
GC-AP-MW-8	3/9/2021 11:02	Turbidity	0.28	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-9	3/9/2021 11:36	Conductivity	840.45	uS/cm
GC-AP-MW-9	3/9/2021 11:36	DO	0.87	mg/L
GC-AP-MW-9	3/9/2021 11:36	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 11:36	Oxidation Reduction Potention	113.19	mv
GC-AP-MW-9	3/9/2021 11:36	pH	5.97	SU
GC-AP-MW-9	3/9/2021 11:36	Temperature	19.97	C
GC-AP-MW-9	3/9/2021 11:36	Turbidity	121	NTU
GC-AP-MW-9	3/9/2021 11:41	Conductivity	857.88	uS/cm
GC-AP-MW-9	3/9/2021 11:41	DO	0.65	mg/L
GC-AP-MW-9	3/9/2021 11:41	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 11:41	Oxidation Reduction Potention	105.54	mv
GC-AP-MW-9	3/9/2021 11:41	pH	5.96	SU
GC-AP-MW-9	3/9/2021 11:41	Temperature	20.06	C
GC-AP-MW-9	3/9/2021 11:41	Turbidity	164	NTU
GC-AP-MW-9	3/9/2021 11:46	Conductivity	873.66	uS/cm
GC-AP-MW-9	3/9/2021 11:46	DO	0.61	mg/L
GC-AP-MW-9	3/9/2021 11:46	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 11:46	Oxidation Reduction Potention	94.49	mv
GC-AP-MW-9	3/9/2021 11:46	pH	5.96	SU
GC-AP-MW-9	3/9/2021 11:46	Temperature	19.9	C
GC-AP-MW-9	3/9/2021 11:46	Turbidity	74.1	NTU
GC-AP-MW-9	3/9/2021 11:51	Conductivity	878.12	uS/cm
GC-AP-MW-9	3/9/2021 11:51	DO	0.57	mg/L
GC-AP-MW-9	3/9/2021 11:51	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 11:51	Oxidation Reduction Potention	87.39	mv
GC-AP-MW-9	3/9/2021 11:51	pH	6	SU
GC-AP-MW-9	3/9/2021 11:51	Temperature	19.88	C
GC-AP-MW-9	3/9/2021 11:51	Turbidity	32.9	NTU
GC-AP-MW-9	3/9/2021 11:56	Conductivity	886.08	uS/cm
GC-AP-MW-9	3/9/2021 11:56	DO	0.53	mg/L
GC-AP-MW-9	3/9/2021 11:56	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 11:56	Oxidation Reduction Potention	80.98	mv
GC-AP-MW-9	3/9/2021 11:56	pH	6.05	SU
GC-AP-MW-9	3/9/2021 11:56	Temperature	19.76	C
GC-AP-MW-9	3/9/2021 11:56	Turbidity	28.5	NTU
GC-AP-MW-9	3/9/2021 12:01	Conductivity	881.61	uS/cm
GC-AP-MW-9	3/9/2021 12:01	DO	0.55	mg/L
GC-AP-MW-9	3/9/2021 12:01	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 12:01	Oxidation Reduction Potention	76.4	mv
GC-AP-MW-9	3/9/2021 12:01	pH	6.06	SU
GC-AP-MW-9	3/9/2021 12:01	Temperature	19.74	C
GC-AP-MW-9	3/9/2021 12:01	Turbidity	22.9	NTU
GC-AP-MW-9	3/9/2021 12:06	Conductivity	884.13	uS/cm
GC-AP-MW-9	3/9/2021 12:06	DO	0.51	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-9	3/9/2021 12:06	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 12:06	Oxidation Reduction Potention	72.08	mv
GC-AP-MW-9	3/9/2021 12:06	pH	6.07	SU
GC-AP-MW-9	3/9/2021 12:06	Temperature	19.71	C
GC-AP-MW-9	3/9/2021 12:06	Turbidity	16.1	NTU
GC-AP-MW-9	3/9/2021 12:11	Conductivity	875.45	uS/cm
GC-AP-MW-9	3/9/2021 12:11	DO	0.5	mg/L
GC-AP-MW-9	3/9/2021 12:11	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 12:11	Oxidation Reduction Potention	67.95	mv
GC-AP-MW-9	3/9/2021 12:11	pH	6.06	SU
GC-AP-MW-9	3/9/2021 12:11	Temperature	19.74	C
GC-AP-MW-9	3/9/2021 12:11	Turbidity	14	NTU
GC-AP-MW-9	3/9/2021 12:16	Conductivity	882.92	uS/cm
GC-AP-MW-9	3/9/2021 12:16	DO	0.5	mg/L
GC-AP-MW-9	3/9/2021 12:16	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 12:16	Oxidation Reduction Potention	63.43	mv
GC-AP-MW-9	3/9/2021 12:16	pH	6.09	SU
GC-AP-MW-9	3/9/2021 12:16	Temperature	19.71	C
GC-AP-MW-9	3/9/2021 12:16	Turbidity	13.1	NTU
GC-AP-MW-9	3/9/2021 12:21	Conductivity	879.01	uS/cm
GC-AP-MW-9	3/9/2021 12:21	DO	0.51	mg/L
GC-AP-MW-9	3/9/2021 12:21	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 12:21	Oxidation Reduction Potention	59.32	mv
GC-AP-MW-9	3/9/2021 12:21	pH	6.1	SU
GC-AP-MW-9	3/9/2021 12:21	Temperature	19.71	C
GC-AP-MW-9	3/9/2021 12:21	Turbidity	10.57	NTU
GC-AP-MW-9	3/9/2021 12:26	Conductivity	877.15	uS/cm
GC-AP-MW-9	3/9/2021 12:26	DO	0.5	mg/L
GC-AP-MW-9	3/9/2021 12:26	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 12:26	Oxidation Reduction Potention	55.76	mv
GC-AP-MW-9	3/9/2021 12:26	pH	6.12	SU
GC-AP-MW-9	3/9/2021 12:26	Temperature	19.74	C
GC-AP-MW-9	3/9/2021 12:26	Turbidity	11.2	NTU
GC-AP-MW-9	3/9/2021 12:31	Conductivity	875.98	uS/cm
GC-AP-MW-9	3/9/2021 12:31	DO	0.5	mg/L
GC-AP-MW-9	3/9/2021 12:31	Depth to Water Detail	8.23	ft
GC-AP-MW-9	3/9/2021 12:31	Oxidation Reduction Potention	51.44	mv
GC-AP-MW-9	3/9/2021 12:31	pH	6.14	SU
GC-AP-MW-9	3/9/2021 12:31	Temperature	19.7	C
GC-AP-MW-9	3/9/2021 12:31	Turbidity	9.17	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	3/9/2021 13:05	Conductivity	948.49	uS/cm
GC-AP-MW-14	3/9/2021 13:05	DO	0.68	mg/L
GC-AP-MW-14	3/9/2021 13:05	Depth to Water Detail	7.25	ft
GC-AP-MW-14	3/9/2021 13:05	Oxidation Reduction Potention	5.73	mv
GC-AP-MW-14	3/9/2021 13:05	pH	6.42	SU
GC-AP-MW-14	3/9/2021 13:05	Temperature	18.14	C
GC-AP-MW-14	3/9/2021 13:05	Turbidity	50.5	NTU
GC-AP-MW-14	3/9/2021 13:10	Conductivity	945.15	uS/cm
GC-AP-MW-14	3/9/2021 13:10	DO	0.57	mg/L
GC-AP-MW-14	3/9/2021 13:10	Depth to Water Detail	7.25	ft
GC-AP-MW-14	3/9/2021 13:10	Oxidation Reduction Potention	-3.9	mv
GC-AP-MW-14	3/9/2021 13:10	pH	6.42	SU
GC-AP-MW-14	3/9/2021 13:10	Temperature	18.16	C
GC-AP-MW-14	3/9/2021 13:10	Turbidity	23.2	NTU
GC-AP-MW-14	3/9/2021 13:15	Conductivity	947.56	uS/cm
GC-AP-MW-14	3/9/2021 13:15	DO	0.51	mg/L
GC-AP-MW-14	3/9/2021 13:15	Depth to Water Detail	7.25	ft
GC-AP-MW-14	3/9/2021 13:15	Oxidation Reduction Potention	-10.58	mv
GC-AP-MW-14	3/9/2021 13:15	pH	6.43	SU
GC-AP-MW-14	3/9/2021 13:15	Temperature	18.16	C
GC-AP-MW-14	3/9/2021 13:15	Turbidity	16.9	NTU
GC-AP-MW-14	3/9/2021 13:20	Conductivity	953.15	uS/cm
GC-AP-MW-14	3/9/2021 13:20	DO	0.46	mg/L
GC-AP-MW-14	3/9/2021 13:20	Depth to Water Detail	7.25	ft
GC-AP-MW-14	3/9/2021 13:20	Oxidation Reduction Potention	-15.63	mv
GC-AP-MW-14	3/9/2021 13:20	pH	6.45	SU
GC-AP-MW-14	3/9/2021 13:20	Temperature	18.13	C
GC-AP-MW-14	3/9/2021 13:20	Turbidity	19	NTU
GC-AP-MW-14	3/9/2021 13:25	Conductivity	947.7	uS/cm
GC-AP-MW-14	3/9/2021 13:25	DO	0.44	mg/L
GC-AP-MW-14	3/9/2021 13:25	Depth to Water Detail	7.25	ft
GC-AP-MW-14	3/9/2021 13:25	Oxidation Reduction Potention	-20.06	mv
GC-AP-MW-14	3/9/2021 13:25	pH	6.45	SU
GC-AP-MW-14	3/9/2021 13:25	Temperature	18.17	C
GC-AP-MW-14	3/9/2021 13:25	Turbidity	12.3	NTU
GC-AP-MW-14	3/9/2021 13:30	Conductivity	953.63	uS/cm
GC-AP-MW-14	3/9/2021 13:30	DO	0.46	mg/L
GC-AP-MW-14	3/9/2021 13:30	Depth to Water Detail	7.25	ft
GC-AP-MW-14	3/9/2021 13:30	Oxidation Reduction Potention	-24.29	mv
GC-AP-MW-14	3/9/2021 13:30	pH	6.47	SU
GC-AP-MW-14	3/9/2021 13:30	Temperature	18.35	C
GC-AP-MW-14	3/9/2021 13:30	Turbidity	13.9	NTU
GC-AP-MW-14	3/9/2021 13:35	Conductivity	957.5	uS/cm
GC-AP-MW-14	3/9/2021 13:35	DO	0.44	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	3/9/2021 13:35	Depth to Water Detail	7.25	ft
GC-AP-MW-14	3/9/2021 13:35	Oxidation Reduction Potention	-28.75	mv
GC-AP-MW-14	3/9/2021 13:35	pH	6.48	SU
GC-AP-MW-14	3/9/2021 13:35	Temperature	18.39	C
GC-AP-MW-14	3/9/2021 13:35	Turbidity	8.47	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-25	3/10/2021 9:16	Conductivity	379.19	uS/cm
GC-AP-MW-25	3/10/2021 9:16	DO	1.16	mg/L
GC-AP-MW-25	3/10/2021 9:16	Depth to Water Detail	14.36	ft
GC-AP-MW-25	3/10/2021 9:16	Oxidation Reduction Potention	96.62	mv
GC-AP-MW-25	3/10/2021 9:16	pH	5.8	SU
GC-AP-MW-25	3/10/2021 9:16	Temperature	19.99	C
GC-AP-MW-25	3/10/2021 9:16	Turbidity	9.25	NTU
GC-AP-MW-25	3/10/2021 9:21	Conductivity	373.2	uS/cm
GC-AP-MW-25	3/10/2021 9:21	DO	0.95	mg/L
GC-AP-MW-25	3/10/2021 9:21	Depth to Water Detail	14.38	ft
GC-AP-MW-25	3/10/2021 9:21	Oxidation Reduction Potention	85.84	mv
GC-AP-MW-25	3/10/2021 9:21	pH	5.76	SU
GC-AP-MW-25	3/10/2021 9:21	Temperature	20.07	C
GC-AP-MW-25	3/10/2021 9:21	Turbidity	8.4	NTU
GC-AP-MW-25	3/10/2021 9:26	Conductivity	366.28	uS/cm
GC-AP-MW-25	3/10/2021 9:26	DO	0.84	mg/L
GC-AP-MW-25	3/10/2021 9:26	Depth to Water Detail	14.42	ft
GC-AP-MW-25	3/10/2021 9:26	Oxidation Reduction Potention	78.31	mv
GC-AP-MW-25	3/10/2021 9:26	pH	5.73	SU
GC-AP-MW-25	3/10/2021 9:26	Temperature	20.15	C
GC-AP-MW-25	3/10/2021 9:26	Turbidity	7.21	NTU
GC-AP-MW-25	3/10/2021 9:31	Conductivity	361.15	uS/cm
GC-AP-MW-25	3/10/2021 9:31	DO	0.81	mg/L
GC-AP-MW-25	3/10/2021 9:31	Depth to Water Detail	14.46	ft
GC-AP-MW-25	3/10/2021 9:31	Oxidation Reduction Potention	73	mv
GC-AP-MW-25	3/10/2021 9:31	pH	5.71	SU
GC-AP-MW-25	3/10/2021 9:31	Temperature	20.21	C
GC-AP-MW-25	3/10/2021 9:31	Turbidity	5.79	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-44H	3/10/2021 10:15	Conductivity	936.05	uS/cm
GC-AP-MW-44H	3/10/2021 10:15	DO	0.39	mg/L
GC-AP-MW-44H	3/10/2021 10:15	Depth to Water Detail	7.98	ft
GC-AP-MW-44H	3/10/2021 10:15	Oxidation Reduction Potention	79.7	mv
GC-AP-MW-44H	3/10/2021 10:15	pH	5.98	SU
GC-AP-MW-44H	3/10/2021 10:15	Temperature	17.45	C
GC-AP-MW-44H	3/10/2021 10:15	Turbidity	20.5	NTU
GC-AP-MW-44H	3/10/2021 10:20	Conductivity	958.86	uS/cm
GC-AP-MW-44H	3/10/2021 10:20	DO	0.34	mg/L
GC-AP-MW-44H	3/10/2021 10:20	Depth to Water Detail	7.98	ft
GC-AP-MW-44H	3/10/2021 10:20	Oxidation Reduction Potention	73.93	mv
GC-AP-MW-44H	3/10/2021 10:20	pH	5.97	SU
GC-AP-MW-44H	3/10/2021 10:20	Temperature	17.5	C
GC-AP-MW-44H	3/10/2021 10:20	Turbidity	17.1	NTU
GC-AP-MW-44H	3/10/2021 10:25	Conductivity	966.22	uS/cm
GC-AP-MW-44H	3/10/2021 10:25	DO	0.58	mg/L
GC-AP-MW-44H	3/10/2021 10:25	Depth to Water Detail	7.98	ft
GC-AP-MW-44H	3/10/2021 10:25	Oxidation Reduction Potention	65.1	mv
GC-AP-MW-44H	3/10/2021 10:25	pH	6.06	SU
GC-AP-MW-44H	3/10/2021 10:25	Temperature	17.55	C
GC-AP-MW-44H	3/10/2021 10:25	Turbidity	117	NTU
GC-AP-MW-44H	3/10/2021 10:30	Conductivity	979.95	uS/cm
GC-AP-MW-44H	3/10/2021 10:30	DO	0.53	mg/L
GC-AP-MW-44H	3/10/2021 10:30	Depth to Water Detail	7.98	ft
GC-AP-MW-44H	3/10/2021 10:30	Oxidation Reduction Potention	58.26	mv
GC-AP-MW-44H	3/10/2021 10:30	pH	6.14	SU
GC-AP-MW-44H	3/10/2021 10:30	Temperature	17.56	C
GC-AP-MW-44H	3/10/2021 10:30	Turbidity	23.6	NTU
GC-AP-MW-44H	3/10/2021 10:35	Conductivity	983.51	uS/cm
GC-AP-MW-44H	3/10/2021 10:35	DO	0.55	mg/L
GC-AP-MW-44H	3/10/2021 10:35	Depth to Water Detail	7.98	ft
GC-AP-MW-44H	3/10/2021 10:35	Oxidation Reduction Potention	55.5	mv
GC-AP-MW-44H	3/10/2021 10:35	pH	6.15	SU
GC-AP-MW-44H	3/10/2021 10:35	Temperature	17.56	C
GC-AP-MW-44H	3/10/2021 10:35	Turbidity	11.5	NTU
GC-AP-MW-44H	3/10/2021 10:40	Conductivity	987.29	uS/cm
GC-AP-MW-44H	3/10/2021 10:40	DO	0.5	mg/L
GC-AP-MW-44H	3/10/2021 10:40	Depth to Water Detail	7.98	ft
GC-AP-MW-44H	3/10/2021 10:40	Oxidation Reduction Potention	54.43	mv
GC-AP-MW-44H	3/10/2021 10:40	pH	6.14	SU
GC-AP-MW-44H	3/10/2021 10:40	Temperature	17.55	C
GC-AP-MW-44H	3/10/2021 10:40	Turbidity	6.51	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-57H	3/10/2021 11:15	Conductivity	375.04	uS/cm
GC-AP-MW-57H	3/10/2021 11:15	DO	0.24	mg/L
GC-AP-MW-57H	3/10/2021 11:15	Depth to Water Detail	6.34	ft
GC-AP-MW-57H	3/10/2021 11:15	Oxidation Reduction Potention	78.86	mv
GC-AP-MW-57H	3/10/2021 11:15	pH	5.55	SU
GC-AP-MW-57H	3/10/2021 11:15	Temperature	16.47	C
GC-AP-MW-57H	3/10/2021 11:15	Turbidity	6.22	NTU
GC-AP-MW-57H	3/10/2021 11:20	Conductivity	404.49	uS/cm
GC-AP-MW-57H	3/10/2021 11:20	DO	0.19	mg/L
GC-AP-MW-57H	3/10/2021 11:20	Depth to Water Detail	6.34	ft
GC-AP-MW-57H	3/10/2021 11:20	Oxidation Reduction Potention	70.34	mv
GC-AP-MW-57H	3/10/2021 11:20	pH	5.72	SU
GC-AP-MW-57H	3/10/2021 11:20	Temperature	16.45	C
GC-AP-MW-57H	3/10/2021 11:20	Turbidity	3.19	NTU
GC-AP-MW-57H	3/10/2021 11:25	Conductivity	420.58	uS/cm
GC-AP-MW-57H	3/10/2021 11:25	DO	0.18	mg/L
GC-AP-MW-57H	3/10/2021 11:25	Depth to Water Detail	6.34	ft
GC-AP-MW-57H	3/10/2021 11:25	Oxidation Reduction Potention	63.89	mv
GC-AP-MW-57H	3/10/2021 11:25	pH	5.84	SU
GC-AP-MW-57H	3/10/2021 11:25	Temperature	16.56	C
GC-AP-MW-57H	3/10/2021 11:25	Turbidity	2.38	NTU
GC-AP-MW-57H	3/10/2021 11:30	Conductivity	425.9	uS/cm
GC-AP-MW-57H	3/10/2021 11:30	DO	0.16	mg/L
GC-AP-MW-57H	3/10/2021 11:30	Depth to Water Detail	6.34	ft
GC-AP-MW-57H	3/10/2021 11:30	Oxidation Reduction Potention	58.85	mv
GC-AP-MW-57H	3/10/2021 11:30	pH	5.91	SU
GC-AP-MW-57H	3/10/2021 11:30	Temperature	16.3	C
GC-AP-MW-57H	3/10/2021 11:30	Turbidity	2.14	NTU
GC-AP-MW-57H	3/10/2021 11:35	Conductivity	433.29	uS/cm
GC-AP-MW-57H	3/10/2021 11:35	DO	0.16	mg/L
GC-AP-MW-57H	3/10/2021 11:35	Depth to Water Detail	6.34	ft
GC-AP-MW-57H	3/10/2021 11:35	Oxidation Reduction Potention	55.08	mv
GC-AP-MW-57H	3/10/2021 11:35	pH	5.96	SU
GC-AP-MW-57H	3/10/2021 11:35	Temperature	16.39	C
GC-AP-MW-57H	3/10/2021 11:35	Turbidity	1.75	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-54H	3/10/2021 12:06	Conductivity	733.02	uS/cm
GC-AP-MW-54H	3/10/2021 12:06	DO	0.24	mg/L
GC-AP-MW-54H	3/10/2021 12:06	Depth to Water Detail	8.95	ft
GC-AP-MW-54H	3/10/2021 12:06	Oxidation Reduction Potention	3.53	mv
GC-AP-MW-54H	3/10/2021 12:06	pH	6.81	SU
GC-AP-MW-54H	3/10/2021 12:06	Temperature	17.08	C
GC-AP-MW-54H	3/10/2021 12:06	Turbidity	43	NTU
GC-AP-MW-54H	3/10/2021 12:11	Conductivity	735.99	uS/cm
GC-AP-MW-54H	3/10/2021 12:11	DO	0.18	mg/L
GC-AP-MW-54H	3/10/2021 12:11	Depth to Water Detail	8.95	ft
GC-AP-MW-54H	3/10/2021 12:11	Oxidation Reduction Potention	-18.5	mv
GC-AP-MW-54H	3/10/2021 12:11	pH	6.82	SU
GC-AP-MW-54H	3/10/2021 12:11	Temperature	17.24	C
GC-AP-MW-54H	3/10/2021 12:11	Turbidity	24.4	NTU
GC-AP-MW-54H	3/10/2021 12:16	Conductivity	734.99	uS/cm
GC-AP-MW-54H	3/10/2021 12:16	DO	0.16	mg/L
GC-AP-MW-54H	3/10/2021 12:16	Depth to Water Detail	8.95	ft
GC-AP-MW-54H	3/10/2021 12:16	Oxidation Reduction Potention	-34.02	mv
GC-AP-MW-54H	3/10/2021 12:16	pH	6.84	SU
GC-AP-MW-54H	3/10/2021 12:16	Temperature	17.1	C
GC-AP-MW-54H	3/10/2021 12:16	Turbidity	15.5	NTU
GC-AP-MW-54H	3/10/2021 12:21	Conductivity	735.81	uS/cm
GC-AP-MW-54H	3/10/2021 12:21	DO	0.14	mg/L
GC-AP-MW-54H	3/10/2021 12:21	Depth to Water Detail	8.95	ft
GC-AP-MW-54H	3/10/2021 12:21	Oxidation Reduction Potention	-45.75	mv
GC-AP-MW-54H	3/10/2021 12:21	pH	6.85	SU
GC-AP-MW-54H	3/10/2021 12:21	Temperature	17.04	C
GC-AP-MW-54H	3/10/2021 12:21	Turbidity	11.6	NTU
GC-AP-MW-54H	3/10/2021 12:26	Conductivity	735.42	uS/cm
GC-AP-MW-54H	3/10/2021 12:26	DO	0.13	mg/L
GC-AP-MW-54H	3/10/2021 12:26	Depth to Water Detail	8.95	ft
GC-AP-MW-54H	3/10/2021 12:26	Oxidation Reduction Potention	-55.74	mv
GC-AP-MW-54H	3/10/2021 12:26	pH	6.87	SU
GC-AP-MW-54H	3/10/2021 12:26	Temperature	17.19	C
GC-AP-MW-54H	3/10/2021 12:26	Turbidity	8.66	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-53H	3/10/2021 12:54	Conductivity	740.64	uS/cm
GC-AP-MW-53H	3/10/2021 12:54	DO	0.29	mg/L
GC-AP-MW-53H	3/10/2021 12:54	Depth to Water Detail	8.15	ft
GC-AP-MW-53H	3/10/2021 12:54	Oxidation Reduction Potention	-58.98	mv
GC-AP-MW-53H	3/10/2021 12:54	pH	6.53	SU
GC-AP-MW-53H	3/10/2021 12:54	Temperature	17.06	C
GC-AP-MW-53H	3/10/2021 12:54	Turbidity	34.4	NTU
GC-AP-MW-53H	3/10/2021 12:59	Conductivity	745.21	uS/cm
GC-AP-MW-53H	3/10/2021 12:59	DO	0.22	mg/L
GC-AP-MW-53H	3/10/2021 12:59	Depth to Water Detail	8.15	ft
GC-AP-MW-53H	3/10/2021 12:59	Oxidation Reduction Potention	-66.37	mv
GC-AP-MW-53H	3/10/2021 12:59	pH	6.54	SU
GC-AP-MW-53H	3/10/2021 12:59	Temperature	17.14	C
GC-AP-MW-53H	3/10/2021 12:59	Turbidity	28	NTU
GC-AP-MW-53H	3/10/2021 13:04	Conductivity	746.25	uS/cm
GC-AP-MW-53H	3/10/2021 13:04	DO	0.19	mg/L
GC-AP-MW-53H	3/10/2021 13:04	Depth to Water Detail	8.15	ft
GC-AP-MW-53H	3/10/2021 13:04	Oxidation Reduction Potention	-70.41	mv
GC-AP-MW-53H	3/10/2021 13:04	pH	6.56	SU
GC-AP-MW-53H	3/10/2021 13:04	Temperature	17.24	C
GC-AP-MW-53H	3/10/2021 13:04	Turbidity	21	NTU
GC-AP-MW-53H	3/10/2021 13:09	Conductivity	747.56	uS/cm
GC-AP-MW-53H	3/10/2021 13:09	DO	0.18	mg/L
GC-AP-MW-53H	3/10/2021 13:09	Depth to Water Detail	8.15	ft
GC-AP-MW-53H	3/10/2021 13:09	Oxidation Reduction Potention	-72.65	mv
GC-AP-MW-53H	3/10/2021 13:09	pH	6.57	SU
GC-AP-MW-53H	3/10/2021 13:09	Temperature	17.24	C
GC-AP-MW-53H	3/10/2021 13:09	Turbidity	14.8	NTU
GC-AP-MW-53H	3/10/2021 13:14	Conductivity	749.31	uS/cm
GC-AP-MW-53H	3/10/2021 13:14	DO	0.17	mg/L
GC-AP-MW-53H	3/10/2021 13:14	Depth to Water Detail	8.15	ft
GC-AP-MW-53H	3/10/2021 13:14	Oxidation Reduction Potention	-74.18	mv
GC-AP-MW-53H	3/10/2021 13:14	pH	6.57	SU
GC-AP-MW-53H	3/10/2021 13:14	Temperature	17.35	C
GC-AP-MW-53H	3/10/2021 13:14	Turbidity	9.4	NTU
GC-AP-MW-53H	3/10/2021 13:19	Conductivity	752.3	uS/cm
GC-AP-MW-53H	3/10/2021 13:19	DO	0.18	mg/L
GC-AP-MW-53H	3/10/2021 13:19	Depth to Water Detail	8.15	ft
GC-AP-MW-53H	3/10/2021 13:19	Oxidation Reduction Potention	-75.92	mv
GC-AP-MW-53H	3/10/2021 13:19	pH	6.58	SU
GC-AP-MW-53H	3/10/2021 13:19	Temperature	17.2	C
GC-AP-MW-53H	3/10/2021 13:19	Turbidity	7.65	NTU

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Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-11	3/10/2021 12:50	Conductivity	406.41	uS/cm
GC-AP-MW-11	3/10/2021 12:50	DO	0.98	mg/L
GC-AP-MW-11	3/10/2021 12:50	Depth to Water Detail	17.86	ft
GC-AP-MW-11	3/10/2021 12:50	Oxidation Reduction Potention	98.92	mv
GC-AP-MW-11	3/10/2021 12:50	pH	5.82	SU
GC-AP-MW-11	3/10/2021 12:50	Temperature	20.53	C
GC-AP-MW-11	3/10/2021 12:50	Turbidity	0.25	NTU
GC-AP-MW-11	3/10/2021 12:55	Conductivity	411.9	uS/cm
GC-AP-MW-11	3/10/2021 12:55	DO	0.81	mg/L
GC-AP-MW-11	3/10/2021 12:55	Depth to Water Detail	17.87	ft
GC-AP-MW-11	3/10/2021 12:55	Oxidation Reduction Potention	95.37	mv
GC-AP-MW-11	3/10/2021 12:55	pH	5.85	SU
GC-AP-MW-11	3/10/2021 12:55	Temperature	20.61	C
GC-AP-MW-11	3/10/2021 12:55	Turbidity	0.24	NTU
GC-AP-MW-11	3/10/2021 13:00	Conductivity	418.83	uS/cm
GC-AP-MW-11	3/10/2021 13:00	DO	0.74	mg/L
GC-AP-MW-11	3/10/2021 13:00	Depth to Water Detail	17.88	ft
GC-AP-MW-11	3/10/2021 13:00	Oxidation Reduction Potention	88.03	mv
GC-AP-MW-11	3/10/2021 13:00	pH	5.9	SU
GC-AP-MW-11	3/10/2021 13:00	Temperature	20.63	C
GC-AP-MW-11	3/10/2021 13:00	Turbidity	0.21	NTU
GC-AP-MW-11	3/10/2021 13:05	Conductivity	427.54	uS/cm
GC-AP-MW-11	3/10/2021 13:05	DO	0.69	mg/L
GC-AP-MW-11	3/10/2021 13:05	Depth to Water Detail	17.88	ft
GC-AP-MW-11	3/10/2021 13:05	Oxidation Reduction Potention	73.17	mv
GC-AP-MW-11	3/10/2021 13:05	pH	5.97	SU
GC-AP-MW-11	3/10/2021 13:05	Temperature	20.61	C
GC-AP-MW-11	3/10/2021 13:05	Turbidity	0.24	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-12	3/10/2021 11:04	Conductivity	466.53	uS/cm
GC-AP-MW-12	3/10/2021 11:04	DO	1.06	mg/L
GC-AP-MW-12	3/10/2021 11:04	Depth to Water Detail	20.33	ft
GC-AP-MW-12	3/10/2021 11:04	Oxidation Reduction Potention	122.13	mv
GC-AP-MW-12	3/10/2021 11:04	pH	6.74	SU
GC-AP-MW-12	3/10/2021 11:04	Temperature	17.52	C
GC-AP-MW-12	3/10/2021 11:04	Turbidity	0.38	NTU
GC-AP-MW-12	3/10/2021 11:09	Conductivity	459.3	uS/cm
GC-AP-MW-12	3/10/2021 11:09	DO	0.84	mg/L
GC-AP-MW-12	3/10/2021 11:09	Depth to Water Detail	20.33	ft
GC-AP-MW-12	3/10/2021 11:09	Oxidation Reduction Potention	117.18	mv
GC-AP-MW-12	3/10/2021 11:09	pH	6.81	SU
GC-AP-MW-12	3/10/2021 11:09	Temperature	17.52	C
GC-AP-MW-12	3/10/2021 11:09	Turbidity	0.29	NTU
GC-AP-MW-12	3/10/2021 11:14	Conductivity	453.22	uS/cm
GC-AP-MW-12	3/10/2021 11:14	DO	0.81	mg/L
GC-AP-MW-12	3/10/2021 11:14	Depth to Water Detail	20.33	ft
GC-AP-MW-12	3/10/2021 11:14	Oxidation Reduction Potention	113.61	mv
GC-AP-MW-12	3/10/2021 11:14	pH	6.86	SU
GC-AP-MW-12	3/10/2021 11:14	Temperature	17.49	C
GC-AP-MW-12	3/10/2021 11:14	Turbidity	0.35	NTU
GC-AP-MW-12	3/10/2021 11:19	Conductivity	445.25	uS/cm
GC-AP-MW-12	3/10/2021 11:19	DO	0.75	mg/L
GC-AP-MW-12	3/10/2021 11:19	Depth to Water Detail	20.33	ft
GC-AP-MW-12	3/10/2021 11:19	Oxidation Reduction Potention	111.2	mv
GC-AP-MW-12	3/10/2021 11:19	pH	6.89	SU
GC-AP-MW-12	3/10/2021 11:19	Temperature	17.49	C
GC-AP-MW-12	3/10/2021 11:19	Turbidity	0.32	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-21	3/10/2021 11:55	Conductivity	441.29	uS/cm
GC-AP-MW-21	3/10/2021 11:55	DO	0.21	mg/L
GC-AP-MW-21	3/10/2021 11:55	Depth to Water Detail	22.52	ft
GC-AP-MW-21	3/10/2021 11:55	Oxidation Reduction Potention	103.54	mv
GC-AP-MW-21	3/10/2021 11:55	pH	6.18	SU
GC-AP-MW-21	3/10/2021 11:55	Temperature	21.71	C
GC-AP-MW-21	3/10/2021 11:55	Turbidity	0.63	NTU
GC-AP-MW-21	3/10/2021 12:00	Conductivity	434.75	uS/cm
GC-AP-MW-21	3/10/2021 12:00	DO	0.17	mg/L
GC-AP-MW-21	3/10/2021 12:00	Depth to Water Detail	22.52	ft
GC-AP-MW-21	3/10/2021 12:00	Oxidation Reduction Potention	107.47	mv
GC-AP-MW-21	3/10/2021 12:00	pH	6.19	SU
GC-AP-MW-21	3/10/2021 12:00	Temperature	21.64	C
GC-AP-MW-21	3/10/2021 12:00	Turbidity	0.82	NTU
GC-AP-MW-21	3/10/2021 12:05	Conductivity	432.54	uS/cm
GC-AP-MW-21	3/10/2021 12:05	DO	0.15	mg/L
GC-AP-MW-21	3/10/2021 12:05	Depth to Water Detail	22.52	ft
GC-AP-MW-21	3/10/2021 12:05	Oxidation Reduction Potention	100.69	mv
GC-AP-MW-21	3/10/2021 12:05	pH	6.23	SU
GC-AP-MW-21	3/10/2021 12:05	Temperature	21.65	C
GC-AP-MW-21	3/10/2021 12:05	Turbidity	0.54	NTU
GC-AP-MW-21	3/10/2021 12:10	Conductivity	436.23	uS/cm
GC-AP-MW-21	3/10/2021 12:10	DO	0.14	mg/L
GC-AP-MW-21	3/10/2021 12:10	Depth to Water Detail	22.52	ft
GC-AP-MW-21	3/10/2021 12:10	Oxidation Reduction Potention	97.22	mv
GC-AP-MW-21	3/10/2021 12:10	pH	6.26	SU
GC-AP-MW-21	3/10/2021 12:10	Temperature	21.71	C
GC-AP-MW-21	3/10/2021 12:10	Turbidity	0.47	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	3/9/2021 13:25	Conductivity	615.85	uS/cm
GC-AP-MW-42H	3/9/2021 13:25	DO	1.11	mg/L
GC-AP-MW-42H	3/9/2021 13:25	Depth to Water Detail	5.19	ft
GC-AP-MW-42H	3/9/2021 13:25	Oxidation Reduction Potention	4.74	mv
GC-AP-MW-42H	3/9/2021 13:25	pH	6.3	SU
GC-AP-MW-42H	3/9/2021 13:25	Temperature	17.79	C
GC-AP-MW-42H	3/9/2021 13:25	Turbidity	18.5	NTU
GC-AP-MW-42H	3/9/2021 13:30	Conductivity	620.32	uS/cm
GC-AP-MW-42H	3/9/2021 13:30	DO	0.69	mg/L
GC-AP-MW-42H	3/9/2021 13:30	Depth to Water Detail	5.19	ft
GC-AP-MW-42H	3/9/2021 13:30	Oxidation Reduction Potention	1.94	mv
GC-AP-MW-42H	3/9/2021 13:30	pH	6.29	SU
GC-AP-MW-42H	3/9/2021 13:30	Temperature	18	C
GC-AP-MW-42H	3/9/2021 13:30	Turbidity	13.6	NTU
GC-AP-MW-42H	3/9/2021 13:35	Conductivity	617.68	uS/cm
GC-AP-MW-42H	3/9/2021 13:35	DO	0.49	mg/L
GC-AP-MW-42H	3/9/2021 13:35	Depth to Water Detail	5.19	ft
GC-AP-MW-42H	3/9/2021 13:35	Oxidation Reduction Potention	2.71	mv
GC-AP-MW-42H	3/9/2021 13:35	pH	6.29	SU
GC-AP-MW-42H	3/9/2021 13:35	Temperature	18.03	C
GC-AP-MW-42H	3/9/2021 13:35	Turbidity	10.72	NTU
GC-AP-MW-42H	3/9/2021 13:40	Conductivity	622.12	uS/cm
GC-AP-MW-42H	3/9/2021 13:40	DO	0.4	mg/L
GC-AP-MW-42H	3/9/2021 13:40	Depth to Water Detail	5.19	ft
GC-AP-MW-42H	3/9/2021 13:40	Oxidation Reduction Potention	4.02	mv
GC-AP-MW-42H	3/9/2021 13:40	pH	6.29	SU
GC-AP-MW-42H	3/9/2021 13:40	Temperature	18	C
GC-AP-MW-42H	3/9/2021 13:40	Turbidity	9	NTU
GC-AP-MW-42H	3/9/2021 13:45	Conductivity	618.12	uS/cm
GC-AP-MW-42H	3/9/2021 13:45	DO	0.33	mg/L
GC-AP-MW-42H	3/9/2021 13:45	Depth to Water Detail	5.19	ft
GC-AP-MW-42H	3/9/2021 13:45	Oxidation Reduction Potention	5.75	mv
GC-AP-MW-42H	3/9/2021 13:45	pH	6.29	SU
GC-AP-MW-42H	3/9/2021 13:45	Temperature	18	C
GC-AP-MW-42H	3/9/2021 13:45	Turbidity	7.29	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-43H	3/9/2021 12:20	Conductivity	928.22	uS/cm
GC-AP-MW-43H	3/9/2021 12:20	DO	0.25	mg/L
GC-AP-MW-43H	3/9/2021 12:20	Depth to Water Detail	6.93	ft
GC-AP-MW-43H	3/9/2021 12:20	Oxidation Reduction Potention	-45.85	mv
GC-AP-MW-43H	3/9/2021 12:20	pH	6.42	SU
GC-AP-MW-43H	3/9/2021 12:20	Temperature	17.97	C
GC-AP-MW-43H	3/9/2021 12:20	Turbidity	9.03	NTU
GC-AP-MW-43H	3/9/2021 12:25	Conductivity	929.32	uS/cm
GC-AP-MW-43H	3/9/2021 12:25	DO	0.23	mg/L
GC-AP-MW-43H	3/9/2021 12:25	Depth to Water Detail	6.93	ft
GC-AP-MW-43H	3/9/2021 12:25	Oxidation Reduction Potention	-48.44	mv
GC-AP-MW-43H	3/9/2021 12:25	pH	6.44	SU
GC-AP-MW-43H	3/9/2021 12:25	Temperature	18.09	C
GC-AP-MW-43H	3/9/2021 12:25	Turbidity	5.65	NTU
GC-AP-MW-43H	3/9/2021 12:30	Conductivity	930.7	uS/cm
GC-AP-MW-43H	3/9/2021 12:30	DO	0.22	mg/L
GC-AP-MW-43H	3/9/2021 12:30	Depth to Water Detail	6.93	ft
GC-AP-MW-43H	3/9/2021 12:30	Oxidation Reduction Potention	-50.31	mv
GC-AP-MW-43H	3/9/2021 12:30	pH	6.46	SU
GC-AP-MW-43H	3/9/2021 12:30	Temperature	18.08	C
GC-AP-MW-43H	3/9/2021 12:30	Turbidity	4.09	NTU
GC-AP-MW-43H	3/9/2021 12:35	Conductivity	930.58	uS/cm
GC-AP-MW-43H	3/9/2021 12:35	DO	0.2	mg/L
GC-AP-MW-43H	3/9/2021 12:35	Depth to Water Detail	6.93	ft
GC-AP-MW-43H	3/9/2021 12:35	Oxidation Reduction Potention	-51.13	mv
GC-AP-MW-43H	3/9/2021 12:35	pH	6.47	SU
GC-AP-MW-43H	3/9/2021 12:35	Temperature	18.05	C
GC-AP-MW-43H	3/9/2021 12:35	Turbidity	3.46	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-45H	3/10/2021 13:59	Conductivity	354.91	uS/cm
GC-AP-MW-45H	3/10/2021 13:59	DO	0.14	mg/L
GC-AP-MW-45H	3/10/2021 13:59	Depth to Water Detail	18.16	ft
GC-AP-MW-45H	3/10/2021 13:59	Oxidation Reduction Potention	-3.03	mv
GC-AP-MW-45H	3/10/2021 13:59	pH	6.69	SU
GC-AP-MW-45H	3/10/2021 13:59	Temperature	21.11	C
GC-AP-MW-45H	3/10/2021 13:59	Turbidity	151	NTU
GC-AP-MW-45H	3/10/2021 14:04	Conductivity	368.68	uS/cm
GC-AP-MW-45H	3/10/2021 14:04	DO	0.11	mg/L
GC-AP-MW-45H	3/10/2021 14:04	Depth to Water Detail	18.16	ft
GC-AP-MW-45H	3/10/2021 14:04	Oxidation Reduction Potention	-6.98	mv
GC-AP-MW-45H	3/10/2021 14:04	pH	6.72	SU
GC-AP-MW-45H	3/10/2021 14:04	Temperature	21.05	C
GC-AP-MW-45H	3/10/2021 14:04	Turbidity	54.1	NTU
GC-AP-MW-45H	3/10/2021 14:09	Conductivity	368.03	uS/cm
GC-AP-MW-45H	3/10/2021 14:09	DO	0.1	mg/L
GC-AP-MW-45H	3/10/2021 14:09	Depth to Water Detail	18.16	ft
GC-AP-MW-45H	3/10/2021 14:09	Oxidation Reduction Potention	-10.67	mv
GC-AP-MW-45H	3/10/2021 14:09	pH	6.74	SU
GC-AP-MW-45H	3/10/2021 14:09	Temperature	21.11	C
GC-AP-MW-45H	3/10/2021 14:09	Turbidity	36	NTU
GC-AP-MW-45H	3/10/2021 14:14	Conductivity	367.91	uS/cm
GC-AP-MW-45H	3/10/2021 14:14	DO	0.1	mg/L
GC-AP-MW-45H	3/10/2021 14:14	Depth to Water Detail	18.16	ft
GC-AP-MW-45H	3/10/2021 14:14	Oxidation Reduction Potention	-13.67	mv
GC-AP-MW-45H	3/10/2021 14:14	pH	6.77	SU
GC-AP-MW-45H	3/10/2021 14:14	Temperature	21.12	C
GC-AP-MW-45H	3/10/2021 14:14	Turbidity	17.1	NTU
GC-AP-MW-45H	3/10/2021 14:19	Conductivity	368.98	uS/cm
GC-AP-MW-45H	3/10/2021 14:19	DO	0.1	mg/L
GC-AP-MW-45H	3/10/2021 14:19	Depth to Water Detail	18.16	ft
GC-AP-MW-45H	3/10/2021 14:19	Oxidation Reduction Potention	-18.74	mv
GC-AP-MW-45H	3/10/2021 14:19	pH	6.79	SU
GC-AP-MW-45H	3/10/2021 14:19	Temperature	21.17	C
GC-AP-MW-45H	3/10/2021 14:19	Turbidity	6.91	NTU
GC-AP-MW-45H	3/10/2021 14:24	Conductivity	369.87	uS/cm
GC-AP-MW-45H	3/10/2021 14:24	DO	0.09	mg/L
GC-AP-MW-45H	3/10/2021 14:24	Depth to Water Detail	18.16	ft
GC-AP-MW-45H	3/10/2021 14:24	Oxidation Reduction Potention	-20.19	mv
GC-AP-MW-45H	3/10/2021 14:24	pH	6.81	SU
GC-AP-MW-45H	3/10/2021 14:24	Temperature	21.17	C
GC-AP-MW-45H	3/10/2021 14:24	Turbidity	5.64	NTU
GC-AP-MW-45H	3/10/2021 14:29	Conductivity	369.67	uS/cm
GC-AP-MW-45H	3/10/2021 14:29	DO	0.09	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-45H	3/10/2021 14:29	Depth to Water Detail	18.16	ft
GC-AP-MW-45H	3/10/2021 14:29	Oxidation Reduction Potention	-23.63	mv
GC-AP-MW-45H	3/10/2021 14:29	pH	6.83	SU
GC-AP-MW-45H	3/10/2021 14:29	Temperature	21.16	C
GC-AP-MW-45H	3/10/2021 14:29	Turbidity	4.71	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-48H	3/10/2021 10:07	Conductivity	239.11	uS/cm
GC-AP-MW-48H	3/10/2021 10:07	DO	0.3	mg/L
GC-AP-MW-48H	3/10/2021 10:07	Depth to Water Detail	7.82	ft
GC-AP-MW-48H	3/10/2021 10:07	Oxidation Reduction Potention	99.09	mv
GC-AP-MW-48H	3/10/2021 10:07	pH	6.24	SU
GC-AP-MW-48H	3/10/2021 10:07	Temperature	16.97	C
GC-AP-MW-48H	3/10/2021 10:07	Turbidity	1.8	NTU
GC-AP-MW-48H	3/10/2021 10:12	Conductivity	242.77	uS/cm
GC-AP-MW-48H	3/10/2021 10:12	DO	0.19	mg/L
GC-AP-MW-48H	3/10/2021 10:12	Depth to Water Detail	7.82	ft
GC-AP-MW-48H	3/10/2021 10:12	Oxidation Reduction Potention	96.05	mv
GC-AP-MW-48H	3/10/2021 10:12	pH	6.29	SU
GC-AP-MW-48H	3/10/2021 10:12	Temperature	17.24	C
GC-AP-MW-48H	3/10/2021 10:12	Turbidity	0.72	NTU
GC-AP-MW-48H	3/10/2021 10:17	Conductivity	248.32	uS/cm
GC-AP-MW-48H	3/10/2021 10:17	DO	0.14	mg/L
GC-AP-MW-48H	3/10/2021 10:17	Depth to Water Detail	7.82	ft
GC-AP-MW-48H	3/10/2021 10:17	Oxidation Reduction Potention	93.91	mv
GC-AP-MW-48H	3/10/2021 10:17	pH	6.33	SU
GC-AP-MW-48H	3/10/2021 10:17	Temperature	17.23	C
GC-AP-MW-48H	3/10/2021 10:17	Turbidity	0.58	NTU
GC-AP-MW-48H	3/10/2021 10:22	Conductivity	250.14	uS/cm
GC-AP-MW-48H	3/10/2021 10:22	DO	0.12	mg/L
GC-AP-MW-48H	3/10/2021 10:22	Depth to Water Detail	7.82	ft
GC-AP-MW-48H	3/10/2021 10:22	Oxidation Reduction Potention	92.48	mv
GC-AP-MW-48H	3/10/2021 10:22	pH	6.35	SU
GC-AP-MW-48H	3/10/2021 10:22	Temperature	17.35	C
GC-AP-MW-48H	3/10/2021 10:22	Turbidity	0.52	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-49H	3/10/2021 8:56	Conductivity	300.62	uS/cm
GC-AP-MW-49H	3/10/2021 8:56	DO	0.54	mg/L
GC-AP-MW-49H	3/10/2021 8:56	Depth to Water Detail	8.92	ft
GC-AP-MW-49H	3/10/2021 8:56	Oxidation Reduction Potention	21.95	mv
GC-AP-MW-49H	3/10/2021 8:56	pH	6.31	SU
GC-AP-MW-49H	3/10/2021 8:56	Temperature	18.12	C
GC-AP-MW-49H	3/10/2021 8:56	Turbidity	12.4	NTU
GC-AP-MW-49H	3/10/2021 9:01	Conductivity	302.89	uS/cm
GC-AP-MW-49H	3/10/2021 9:01	DO	0.59	mg/L
GC-AP-MW-49H	3/10/2021 9:01	Depth to Water Detail	8.92	ft
GC-AP-MW-49H	3/10/2021 9:01	Oxidation Reduction Potention	36.81	mv
GC-AP-MW-49H	3/10/2021 9:01	pH	6.28	SU
GC-AP-MW-49H	3/10/2021 9:01	Temperature	18.16	C
GC-AP-MW-49H	3/10/2021 9:01	Turbidity	7.58	NTU
GC-AP-MW-49H	3/10/2021 9:06	Conductivity	287.27	uS/cm
GC-AP-MW-49H	3/10/2021 9:06	DO	0.67	mg/L
GC-AP-MW-49H	3/10/2021 9:06	Depth to Water Detail	8.92	ft
GC-AP-MW-49H	3/10/2021 9:06	Oxidation Reduction Potention	45.78	mv
GC-AP-MW-49H	3/10/2021 9:06	pH	6.24	SU
GC-AP-MW-49H	3/10/2021 9:06	Temperature	18.29	C
GC-AP-MW-49H	3/10/2021 9:06	Turbidity	4.64	NTU
GC-AP-MW-49H	3/10/2021 9:11	Conductivity	287.03	uS/cm
GC-AP-MW-49H	3/10/2021 9:11	DO	0.65	mg/L
GC-AP-MW-49H	3/10/2021 9:11	Depth to Water Detail	8.92	ft
GC-AP-MW-49H	3/10/2021 9:11	Oxidation Reduction Potention	53.78	mv
GC-AP-MW-49H	3/10/2021 9:11	pH	6.22	SU
GC-AP-MW-49H	3/10/2021 9:11	Temperature	18.29	C
GC-AP-MW-49H	3/10/2021 9:11	Turbidity	3.98	NTU
GC-AP-MW-49H	3/10/2021 9:16	Conductivity	277.89	uS/cm
GC-AP-MW-49H	3/10/2021 9:16	DO	0.75	mg/L
GC-AP-MW-49H	3/10/2021 9:16	Depth to Water Detail	8.92	ft
GC-AP-MW-49H	3/10/2021 9:16	Oxidation Reduction Potention	59.85	mv
GC-AP-MW-49H	3/10/2021 9:16	pH	6.14	SU
GC-AP-MW-49H	3/10/2021 9:16	Temperature	18.38	C
GC-AP-MW-49H	3/10/2021 9:16	Turbidity	2.43	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-36H	3/9/2021 8:45	Conductivity	280.67	uS/cm
GC-AP-MW-36H	3/9/2021 8:45	DO	0.27	mg/L
GC-AP-MW-36H	3/9/2021 8:45	Depth to Water Detail	25.54	ft
GC-AP-MW-36H	3/9/2021 8:45	Oxidation Reduction Potention	71.32	mv
GC-AP-MW-36H	3/9/2021 8:45	pH	7.8	SU
GC-AP-MW-36H	3/9/2021 8:45	Temperature	22.48	C
GC-AP-MW-36H	3/9/2021 8:45	Turbidity	10.36	NTU
GC-AP-MW-36H	3/9/2021 8:50	Conductivity	280.76	uS/cm
GC-AP-MW-36H	3/9/2021 8:50	DO	0.26	mg/L
GC-AP-MW-36H	3/9/2021 8:50	Depth to Water Detail	25.54	ft
GC-AP-MW-36H	3/9/2021 8:50	Oxidation Reduction Potention	52.65	mv
GC-AP-MW-36H	3/9/2021 8:50	pH	7.87	SU
GC-AP-MW-36H	3/9/2021 8:50	Temperature	22.53	C
GC-AP-MW-36H	3/9/2021 8:50	Turbidity	11.93	NTU
GC-AP-MW-36H	3/9/2021 8:55	Conductivity	279.8	uS/cm
GC-AP-MW-36H	3/9/2021 8:55	DO	0.24	mg/L
GC-AP-MW-36H	3/9/2021 8:55	Depth to Water Detail	25.54	ft
GC-AP-MW-36H	3/9/2021 8:55	Oxidation Reduction Potention	36.95	mv
GC-AP-MW-36H	3/9/2021 8:55	pH	7.81	SU
GC-AP-MW-36H	3/9/2021 8:55	Temperature	22.5	C
GC-AP-MW-36H	3/9/2021 8:55	Turbidity	12.13	NTU
GC-AP-MW-36H	3/9/2021 9:00	Conductivity	280.53	uS/cm
GC-AP-MW-36H	3/9/2021 9:00	DO	0.22	mg/L
GC-AP-MW-36H	3/9/2021 9:00	Depth to Water Detail	25.54	ft
GC-AP-MW-36H	3/9/2021 9:00	Oxidation Reduction Potention	23.4	mv
GC-AP-MW-36H	3/9/2021 9:00	pH	7.88	SU
GC-AP-MW-36H	3/9/2021 9:00	Temperature	22.54	C
GC-AP-MW-36H	3/9/2021 9:00	Turbidity	11.48	NTU
GC-AP-MW-36H	3/9/2021 9:05	Conductivity	279.85	uS/cm
GC-AP-MW-36H	3/9/2021 9:05	DO	0.22	mg/L
GC-AP-MW-36H	3/9/2021 9:05	Depth to Water Detail	25.54	ft
GC-AP-MW-36H	3/9/2021 9:05	Oxidation Reduction Potention	12.43	mv
GC-AP-MW-36H	3/9/2021 9:05	pH	7.85	SU
GC-AP-MW-36H	3/9/2021 9:05	Temperature	22.54	C
GC-AP-MW-36H	3/9/2021 9:05	Turbidity	11	NTU
GC-AP-MW-36H	3/9/2021 9:10	Conductivity	278.59	uS/cm
GC-AP-MW-36H	3/9/2021 9:10	DO	0.23	mg/L
GC-AP-MW-36H	3/9/2021 9:10	Depth to Water Detail	25.54	ft
GC-AP-MW-36H	3/9/2021 9:10	Oxidation Reduction Potention	3.35	mv
GC-AP-MW-36H	3/9/2021 9:10	pH	7.79	SU
GC-AP-MW-36H	3/9/2021 9:10	Temperature	22.56	C
GC-AP-MW-36H	3/9/2021 9:10	Turbidity	9.48	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-18	3/9/2021 10:05	Conductivity	740.04	uS/cm
GC-AP-MW-18	3/9/2021 10:05	DO	0.18	mg/L
GC-AP-MW-18	3/9/2021 10:05	Depth to Water Detail	27.82	ft
GC-AP-MW-18	3/9/2021 10:05	Oxidation Reduction Potention	-35.22	mv
GC-AP-MW-18	3/9/2021 10:05	pH	6.36	SU
GC-AP-MW-18	3/9/2021 10:05	Temperature	19.93	C
GC-AP-MW-18	3/9/2021 10:05	Turbidity	1.17	NTU
GC-AP-MW-18	3/9/2021 10:10	Conductivity	742.47	uS/cm
GC-AP-MW-18	3/9/2021 10:10	DO	0.16	mg/L
GC-AP-MW-18	3/9/2021 10:10	Depth to Water Detail	27.82	ft
GC-AP-MW-18	3/9/2021 10:10	Oxidation Reduction Potention	-38.65	mv
GC-AP-MW-18	3/9/2021 10:10	pH	6.38	SU
GC-AP-MW-18	3/9/2021 10:10	Temperature	19.99	C
GC-AP-MW-18	3/9/2021 10:10	Turbidity	0.96	NTU
GC-AP-MW-18	3/9/2021 10:15	Conductivity	747.54	uS/cm
GC-AP-MW-18	3/9/2021 10:15	DO	0.15	mg/L
GC-AP-MW-18	3/9/2021 10:15	Depth to Water Detail	27.82	ft
GC-AP-MW-18	3/9/2021 10:15	Oxidation Reduction Potention	-39.98	mv
GC-AP-MW-18	3/9/2021 10:15	pH	6.39	SU
GC-AP-MW-18	3/9/2021 10:15	Temperature	19.97	C
GC-AP-MW-18	3/9/2021 10:15	Turbidity	0.46	NTU
GC-AP-MW-18	3/9/2021 10:20	Conductivity	751.44	uS/cm
GC-AP-MW-18	3/9/2021 10:20	DO	0.14	mg/L
GC-AP-MW-18	3/9/2021 10:20	Depth to Water Detail	27.82	ft
GC-AP-MW-18	3/9/2021 10:20	Oxidation Reduction Potention	-40.51	mv
GC-AP-MW-18	3/9/2021 10:20	pH	6.39	SU
GC-AP-MW-18	3/9/2021 10:20	Temperature	20.04	C
GC-AP-MW-18	3/9/2021 10:20	Turbidity	0.27	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-17	3/9/2021 11:09	Conductivity	1022.99	uS/cm
GC-AP-MW-17	3/9/2021 11:09	DO	0.29	mg/L
GC-AP-MW-17	3/9/2021 11:09	Depth to Water Detail	28.8	ft
GC-AP-MW-17	3/9/2021 11:09	Oxidation Reduction Potention	-73.5	mv
GC-AP-MW-17	3/9/2021 11:09	pH	6.33	SU
GC-AP-MW-17	3/9/2021 11:09	Temperature	20.38	C
GC-AP-MW-17	3/9/2021 11:09	Turbidity	2.41	NTU
GC-AP-MW-17	3/9/2021 11:14	Conductivity	1076.71	uS/cm
GC-AP-MW-17	3/9/2021 11:14	DO	0.22	mg/L
GC-AP-MW-17	3/9/2021 11:14	Depth to Water Detail	28.8	ft
GC-AP-MW-17	3/9/2021 11:14	Oxidation Reduction Potention	-80.64	mv
GC-AP-MW-17	3/9/2021 11:14	pH	6.38	SU
GC-AP-MW-17	3/9/2021 11:14	Temperature	20.27	C
GC-AP-MW-17	3/9/2021 11:14	Turbidity	1.62	NTU
GC-AP-MW-17	3/9/2021 11:19	Conductivity	1103.58	uS/cm
GC-AP-MW-17	3/9/2021 11:19	DO	0.17	mg/L
GC-AP-MW-17	3/9/2021 11:19	Depth to Water Detail	28.8	ft
GC-AP-MW-17	3/9/2021 11:19	Oxidation Reduction Potention	-87.1	mv
GC-AP-MW-17	3/9/2021 11:19	pH	6.46	SU
GC-AP-MW-17	3/9/2021 11:19	Temperature	20.29	C
GC-AP-MW-17	3/9/2021 11:19	Turbidity	1.02	NTU
GC-AP-MW-17	3/9/2021 11:24	Conductivity	1114.46	uS/cm
GC-AP-MW-17	3/9/2021 11:24	DO	0.15	mg/L
GC-AP-MW-17	3/9/2021 11:24	Depth to Water Detail	28.8	ft
GC-AP-MW-17	3/9/2021 11:24	Oxidation Reduction Potention	-91.42	mv
GC-AP-MW-17	3/9/2021 11:24	pH	6.52	SU
GC-AP-MW-17	3/9/2021 11:24	Temperature	20.36	C
GC-AP-MW-17	3/9/2021 11:24	Turbidity	1.08	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	3/9/2021 12:18	Conductivity	878.86	uS/cm
GC-AP-MW-16	3/9/2021 12:18	DO	0.21	mg/L
GC-AP-MW-16	3/9/2021 12:18	Depth to Water Detail	31.67	ft
GC-AP-MW-16	3/9/2021 12:18	Oxidation Reduction Potention	-14.86	mv
GC-AP-MW-16	3/9/2021 12:18	pH	6.17	SU
GC-AP-MW-16	3/9/2021 12:18	Temperature	19.11	C
GC-AP-MW-16	3/9/2021 12:18	Turbidity	26.8	NTU
GC-AP-MW-16	3/9/2021 12:23	Conductivity	879.37	uS/cm
GC-AP-MW-16	3/9/2021 12:23	DO	0.17	mg/L
GC-AP-MW-16	3/9/2021 12:23	Depth to Water Detail	31.67	ft
GC-AP-MW-16	3/9/2021 12:23	Oxidation Reduction Potention	-17.27	mv
GC-AP-MW-16	3/9/2021 12:23	pH	6.19	SU
GC-AP-MW-16	3/9/2021 12:23	Temperature	19.14	C
GC-AP-MW-16	3/9/2021 12:23	Turbidity	17.2	NTU
GC-AP-MW-16	3/9/2021 12:28	Conductivity	880.6	uS/cm
GC-AP-MW-16	3/9/2021 12:28	DO	0.16	mg/L
GC-AP-MW-16	3/9/2021 12:28	Depth to Water Detail	31.67	ft
GC-AP-MW-16	3/9/2021 12:28	Oxidation Reduction Potention	-20.02	mv
GC-AP-MW-16	3/9/2021 12:28	pH	6.22	SU
GC-AP-MW-16	3/9/2021 12:28	Temperature	19.18	C
GC-AP-MW-16	3/9/2021 12:28	Turbidity	14.5	NTU
GC-AP-MW-16	3/9/2021 12:33	Conductivity	882.72	uS/cm
GC-AP-MW-16	3/9/2021 12:33	DO	0.15	mg/L
GC-AP-MW-16	3/9/2021 12:33	Depth to Water Detail	31.67	ft
GC-AP-MW-16	3/9/2021 12:33	Oxidation Reduction Potention	-23.31	mv
GC-AP-MW-16	3/9/2021 12:33	pH	6.26	SU
GC-AP-MW-16	3/9/2021 12:33	Temperature	19.17	C
GC-AP-MW-16	3/9/2021 12:33	Turbidity	11.41	NTU
GC-AP-MW-16	3/9/2021 12:38	Conductivity	886.04	uS/cm
GC-AP-MW-16	3/9/2021 12:38	DO	0.15	mg/L
GC-AP-MW-16	3/9/2021 12:38	Depth to Water Detail	31.67	ft
GC-AP-MW-16	3/9/2021 12:38	Oxidation Reduction Potention	-25.77	mv
GC-AP-MW-16	3/9/2021 12:38	pH	6.29	SU
GC-AP-MW-16	3/9/2021 12:38	Temperature	19.19	C
GC-AP-MW-16	3/9/2021 12:38	Turbidity	8.57	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-39H	3/9/2021 13:22	Conductivity	933.82	uS/cm
GC-AP-MW-39H	3/9/2021 13:22	DO	0.15	mg/L
GC-AP-MW-39H	3/9/2021 13:22	Depth to Water Detail	33.2	ft
GC-AP-MW-39H	3/9/2021 13:22	Oxidation Reduction Potention	-43.71	mv
GC-AP-MW-39H	3/9/2021 13:22	pH	6.39	SU
GC-AP-MW-39H	3/9/2021 13:22	Temperature	19.37	C
GC-AP-MW-39H	3/9/2021 13:22	Turbidity	0.78	NTU
GC-AP-MW-39H	3/9/2021 13:27	Conductivity	934.49	uS/cm
GC-AP-MW-39H	3/9/2021 13:27	DO	0.14	mg/L
GC-AP-MW-39H	3/9/2021 13:27	Depth to Water Detail	33.2	ft
GC-AP-MW-39H	3/9/2021 13:27	Oxidation Reduction Potention	-46.17	mv
GC-AP-MW-39H	3/9/2021 13:27	pH	6.4	SU
GC-AP-MW-39H	3/9/2021 13:27	Temperature	19.42	C
GC-AP-MW-39H	3/9/2021 13:27	Turbidity	0.79	NTU
GC-AP-MW-39H	3/9/2021 13:32	Conductivity	932.39	uS/cm
GC-AP-MW-39H	3/9/2021 13:32	DO	0.13	mg/L
GC-AP-MW-39H	3/9/2021 13:32	Depth to Water Detail	33.2	ft
GC-AP-MW-39H	3/9/2021 13:32	Oxidation Reduction Potention	-49.27	mv
GC-AP-MW-39H	3/9/2021 13:32	pH	6.43	SU
GC-AP-MW-39H	3/9/2021 13:32	Temperature	19.36	C
GC-AP-MW-39H	3/9/2021 13:32	Turbidity	0.47	NTU
GC-AP-MW-39H	3/9/2021 13:37	Conductivity	932.77	uS/cm
GC-AP-MW-39H	3/9/2021 13:37	DO	0.12	mg/L
GC-AP-MW-39H	3/9/2021 13:37	Depth to Water Detail	33.2	ft
GC-AP-MW-39H	3/9/2021 13:37	Oxidation Reduction Potention	-51.69	mv
GC-AP-MW-39H	3/9/2021 13:37	pH	6.45	SU
GC-AP-MW-39H	3/9/2021 13:37	Temperature	19.42	C
GC-AP-MW-39H	3/9/2021 13:37	Turbidity	0.51	NTU
GC-AP-MW-39H	3/9/2021 13:42	Conductivity	931.49	uS/cm
GC-AP-MW-39H	3/9/2021 13:42	DO	0.12	mg/L
GC-AP-MW-39H	3/9/2021 13:42	Depth to Water Detail	33.2	ft
GC-AP-MW-39H	3/9/2021 13:42	Oxidation Reduction Potention	-53.42	mv
GC-AP-MW-39H	3/9/2021 13:42	pH	6.47	SU
GC-AP-MW-39H	3/9/2021 13:42	Temperature	19.51	C
GC-AP-MW-39H	3/9/2021 13:42	Turbidity	0.55	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-38H	3/10/2021 8:48	Conductivity	520.06	uS/cm
GC-AP-MW-38H	3/10/2021 8:48	DO	3.12	mg/L
GC-AP-MW-38H	3/10/2021 8:48	Depth to Water Detail	20.16	ft
GC-AP-MW-38H	3/10/2021 8:48	Oxidation Reduction Potention	145.12	mv
GC-AP-MW-38H	3/10/2021 8:48	pH	6.68	SU
GC-AP-MW-38H	3/10/2021 8:48	Temperature	18.36	C
GC-AP-MW-38H	3/10/2021 8:48	Turbidity	4.25	NTU
GC-AP-MW-38H	3/10/2021 8:53	Conductivity	522.62	uS/cm
GC-AP-MW-38H	3/10/2021 8:53	DO	2.95	mg/L
GC-AP-MW-38H	3/10/2021 8:53	Depth to Water Detail	20.42	ft
GC-AP-MW-38H	3/10/2021 8:53	Oxidation Reduction Potention	132.58	mv
GC-AP-MW-38H	3/10/2021 8:53	pH	6.68	SU
GC-AP-MW-38H	3/10/2021 8:53	Temperature	18.28	C
GC-AP-MW-38H	3/10/2021 8:53	Turbidity	2.21	NTU
GC-AP-MW-38H	3/10/2021 8:58	Conductivity	510.42	uS/cm
GC-AP-MW-38H	3/10/2021 8:58	DO	2.91	mg/L
GC-AP-MW-38H	3/10/2021 8:58	Depth to Water Detail	20.52	ft
GC-AP-MW-38H	3/10/2021 8:58	Oxidation Reduction Potention	120.66	mv
GC-AP-MW-38H	3/10/2021 8:58	pH	6.68	SU
GC-AP-MW-38H	3/10/2021 8:58	Temperature	18.39	C
GC-AP-MW-38H	3/10/2021 8:58	Turbidity	1.31	NTU
GC-AP-MW-38H	3/10/2021 9:03	Conductivity	492.63	uS/cm
GC-AP-MW-38H	3/10/2021 9:03	DO	2.92	mg/L
GC-AP-MW-38H	3/10/2021 9:03	Depth to Water Detail	20.58	ft
GC-AP-MW-38H	3/10/2021 9:03	Oxidation Reduction Potention	114.91	mv
GC-AP-MW-38H	3/10/2021 9:03	pH	6.67	SU
GC-AP-MW-38H	3/10/2021 9:03	Temperature	18.35	C
GC-AP-MW-38H	3/10/2021 9:03	Turbidity	1.87	NTU
GC-AP-MW-38H	3/10/2021 9:08	Conductivity	485.36	uS/cm
GC-AP-MW-38H	3/10/2021 9:08	DO	2.98	mg/L
GC-AP-MW-38H	3/10/2021 9:08	Depth to Water Detail	20.6	ft
GC-AP-MW-38H	3/10/2021 9:08	Oxidation Reduction Potention	106.87	mv
GC-AP-MW-38H	3/10/2021 9:08	pH	6.68	SU
GC-AP-MW-38H	3/10/2021 9:08	Temperature	18.5	C
GC-AP-MW-38H	3/10/2021 9:08	Turbidity	1.18	NTU
GC-AP-MW-38H	3/10/2021 9:13	Conductivity	476.49	uS/cm
GC-AP-MW-38H	3/10/2021 9:13	DO	3.04	mg/L
GC-AP-MW-38H	3/10/2021 9:13	Depth to Water Detail	20.62	ft
GC-AP-MW-38H	3/10/2021 9:13	Oxidation Reduction Potention	101.91	mv
GC-AP-MW-38H	3/10/2021 9:13	pH	6.67	SU
GC-AP-MW-38H	3/10/2021 9:13	Temperature	18.52	C
GC-AP-MW-38H	3/10/2021 9:13	Turbidity	0.64	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-15	3/10/2021 10:13	Conductivity	617.49	uS/cm
GC-AP-MW-15	3/10/2021 10:13	DO	0.77	mg/L
GC-AP-MW-15	3/10/2021 10:13	Depth to Water Detail	15.22	ft
GC-AP-MW-15	3/10/2021 10:13	Oxidation Reduction Potention	78.88	mv
GC-AP-MW-15	3/10/2021 10:13	pH	5.71	SU
GC-AP-MW-15	3/10/2021 10:13	Temperature	19.2	C
GC-AP-MW-15	3/10/2021 10:13	Turbidity	0.33	NTU
GC-AP-MW-15	3/10/2021 10:18	Conductivity	613.47	uS/cm
GC-AP-MW-15	3/10/2021 10:18	DO	0.63	mg/L
GC-AP-MW-15	3/10/2021 10:18	Depth to Water Detail	15.22	ft
GC-AP-MW-15	3/10/2021 10:18	Oxidation Reduction Potention	67.47	mv
GC-AP-MW-15	3/10/2021 10:18	pH	5.79	SU
GC-AP-MW-15	3/10/2021 10:18	Temperature	19.23	C
GC-AP-MW-15	3/10/2021 10:18	Turbidity	0.35	NTU
GC-AP-MW-15	3/10/2021 10:23	Conductivity	618.21	uS/cm
GC-AP-MW-15	3/10/2021 10:23	DO	0.57	mg/L
GC-AP-MW-15	3/10/2021 10:23	Depth to Water Detail	15.22	ft
GC-AP-MW-15	3/10/2021 10:23	Oxidation Reduction Potention	55.55	mv
GC-AP-MW-15	3/10/2021 10:23	pH	5.93	SU
GC-AP-MW-15	3/10/2021 10:23	Temperature	19.22	C
GC-AP-MW-15	3/10/2021 10:23	Turbidity	0.32	NTU
GC-AP-MW-15	3/10/2021 10:28	Conductivity	612.1	uS/cm
GC-AP-MW-15	3/10/2021 10:28	DO	0.54	mg/L
GC-AP-MW-15	3/10/2021 10:28	Depth to Water Detail	15.22	ft
GC-AP-MW-15	3/10/2021 10:28	Oxidation Reduction Potention	50.68	mv
GC-AP-MW-15	3/10/2021 10:28	pH	6.01	SU
GC-AP-MW-15	3/10/2021 10:28	Temperature	19.27	C
GC-AP-MW-15	3/10/2021 10:28	Turbidity	0.42	NTU
GC-AP-MW-15	3/10/2021 10:33	Conductivity	608.42	uS/cm
GC-AP-MW-15	3/10/2021 10:33	DO	0.53	mg/L
GC-AP-MW-15	3/10/2021 10:33	Depth to Water Detail	15.22	ft
GC-AP-MW-15	3/10/2021 10:33	Oxidation Reduction Potention	47.42	mv
GC-AP-MW-15	3/10/2021 10:33	pH	6.08	SU
GC-AP-MW-15	3/10/2021 10:33	Temperature	19.29	C
GC-AP-MW-15	3/10/2021 10:33	Turbidity	0.45	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-40H	3/10/2021 11:06	Conductivity	748.19	uS/cm
GC-AP-MW-40H	3/10/2021 11:06	DO	0.17	mg/L
GC-AP-MW-40H	3/10/2021 11:06	Depth to Water Detail	11.11	ft
GC-AP-MW-40H	3/10/2021 11:06	Oxidation Reduction Potention	81.29	mv
GC-AP-MW-40H	3/10/2021 11:06	pH	5.85	SU
GC-AP-MW-40H	3/10/2021 11:06	Temperature	18.16	C
GC-AP-MW-40H	3/10/2021 11:06	Turbidity	0.45	NTU
GC-AP-MW-40H	3/10/2021 11:11	Conductivity	733.55	uS/cm
GC-AP-MW-40H	3/10/2021 11:11	DO	0.14	mg/L
GC-AP-MW-40H	3/10/2021 11:11	Depth to Water Detail	11.11	ft
GC-AP-MW-40H	3/10/2021 11:11	Oxidation Reduction Potention	82.35	mv
GC-AP-MW-40H	3/10/2021 11:11	pH	5.88	SU
GC-AP-MW-40H	3/10/2021 11:11	Temperature	18.23	C
GC-AP-MW-40H	3/10/2021 11:11	Turbidity	0.69	NTU
GC-AP-MW-40H	3/10/2021 11:16	Conductivity	722.92	uS/cm
GC-AP-MW-40H	3/10/2021 11:16	DO	0.12	mg/L
GC-AP-MW-40H	3/10/2021 11:16	Depth to Water Detail	11.11	ft
GC-AP-MW-40H	3/10/2021 11:16	Oxidation Reduction Potention	80.72	mv
GC-AP-MW-40H	3/10/2021 11:16	pH	5.95	SU
GC-AP-MW-40H	3/10/2021 11:16	Temperature	18.27	C
GC-AP-MW-40H	3/10/2021 11:16	Turbidity	0.43	NTU
GC-AP-MW-40H	3/10/2021 11:21	Conductivity	713.51	uS/cm
GC-AP-MW-40H	3/10/2021 11:21	DO	0.11	mg/L
GC-AP-MW-40H	3/10/2021 11:21	Depth to Water Detail	11.11	ft
GC-AP-MW-40H	3/10/2021 11:21	Oxidation Reduction Potention	80.6	mv
GC-AP-MW-40H	3/10/2021 11:21	pH	5.99	SU
GC-AP-MW-40H	3/10/2021 11:21	Temperature	18.27	C
GC-AP-MW-40H	3/10/2021 11:21	Turbidity	0.76	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-24	3/10/2021 12:09	Conductivity	263.76	uS/cm
GC-AP-MW-24	3/10/2021 12:09	DO	4.54	mg/L
GC-AP-MW-24	3/10/2021 12:09	Depth to Water Detail	18.39	ft
GC-AP-MW-24	3/10/2021 12:09	Oxidation Reduction Potention	175.37	mv
GC-AP-MW-24	3/10/2021 12:09	pH	4.62	SU
GC-AP-MW-24	3/10/2021 12:09	Temperature	19.3	C
GC-AP-MW-24	3/10/2021 12:09	Turbidity	1.85	NTU
GC-AP-MW-24	3/10/2021 12:14	Conductivity	263.49	uS/cm
GC-AP-MW-24	3/10/2021 12:14	DO	4.41	mg/L
GC-AP-MW-24	3/10/2021 12:14	Depth to Water Detail	18.39	ft
GC-AP-MW-24	3/10/2021 12:14	Oxidation Reduction Potention	174.98	mv
GC-AP-MW-24	3/10/2021 12:14	pH	4.83	SU
GC-AP-MW-24	3/10/2021 12:14	Temperature	19.34	C
GC-AP-MW-24	3/10/2021 12:14	Turbidity	1.35	NTU
GC-AP-MW-24	3/10/2021 12:19	Conductivity	260.88	uS/cm
GC-AP-MW-24	3/10/2021 12:19	DO	4.43	mg/L
GC-AP-MW-24	3/10/2021 12:19	Depth to Water Detail	18.39	ft
GC-AP-MW-24	3/10/2021 12:19	Oxidation Reduction Potention	173.26	mv
GC-AP-MW-24	3/10/2021 12:19	pH	4.97	SU
GC-AP-MW-24	3/10/2021 12:19	Temperature	19.28	C
GC-AP-MW-24	3/10/2021 12:19	Turbidity	0.69	NTU
GC-AP-MW-24	3/10/2021 12:24	Conductivity	263.41	uS/cm
GC-AP-MW-24	3/10/2021 12:24	DO	4.38	mg/L
GC-AP-MW-24	3/10/2021 12:24	Depth to Water Detail	18.39	ft
GC-AP-MW-24	3/10/2021 12:24	Oxidation Reduction Potention	148.01	mv
GC-AP-MW-24	3/10/2021 12:24	pH	5.08	SU
GC-AP-MW-24	3/10/2021 12:24	Temperature	19.24	C
GC-AP-MW-24	3/10/2021 12:24	Turbidity	0.53	NTU
GC-AP-MW-24	3/10/2021 12:29	Conductivity	273.28	uS/cm
GC-AP-MW-24	3/10/2021 12:29	DO	4.34	mg/L
GC-AP-MW-24	3/10/2021 12:29	Depth to Water Detail	18.39	ft
GC-AP-MW-24	3/10/2021 12:29	Oxidation Reduction Potention	142.71	mv
GC-AP-MW-24	3/10/2021 12:29	pH	5.14	SU
GC-AP-MW-24	3/10/2021 12:29	Temperature	19.27	C
GC-AP-MW-24	3/10/2021 12:29	Turbidity	0.53	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-23	3/10/2021 13:06	Conductivity	168.99	uS/cm
GC-AP-MW-23	3/10/2021 13:06	DO	5.87	mg/L
GC-AP-MW-23	3/10/2021 13:06	Depth to Water Detail	14.97	ft
GC-AP-MW-23	3/10/2021 13:06	Oxidation Reduction Potention	153.08	mv
GC-AP-MW-23	3/10/2021 13:06	pH	5.88	SU
GC-AP-MW-23	3/10/2021 13:06	Temperature	17.41	C
GC-AP-MW-23	3/10/2021 13:06	Turbidity	4.16	NTU
GC-AP-MW-23	3/10/2021 13:11	Conductivity	165.94	uS/cm
GC-AP-MW-23	3/10/2021 13:11	DO	5.89	mg/L
GC-AP-MW-23	3/10/2021 13:11	Depth to Water Detail	14.97	ft
GC-AP-MW-23	3/10/2021 13:11	Oxidation Reduction Potention	146.14	mv
GC-AP-MW-23	3/10/2021 13:11	pH	5.99	SU
GC-AP-MW-23	3/10/2021 13:11	Temperature	17.41	C
GC-AP-MW-23	3/10/2021 13:11	Turbidity	2.2	NTU
GC-AP-MW-23	3/10/2021 13:16	Conductivity	165.52	uS/cm
GC-AP-MW-23	3/10/2021 13:16	DO	5.89	mg/L
GC-AP-MW-23	3/10/2021 13:16	Depth to Water Detail	14.97	ft
GC-AP-MW-23	3/10/2021 13:16	Oxidation Reduction Potention	140.61	mv
GC-AP-MW-23	3/10/2021 13:16	pH	6.1	SU
GC-AP-MW-23	3/10/2021 13:16	Temperature	17.44	C
GC-AP-MW-23	3/10/2021 13:16	Turbidity	1.36	NTU
GC-AP-MW-23	3/10/2021 13:21	Conductivity	163.76	uS/cm
GC-AP-MW-23	3/10/2021 13:21	DO	5.9	mg/L
GC-AP-MW-23	3/10/2021 13:21	Depth to Water Detail	14.97	ft
GC-AP-MW-23	3/10/2021 13:21	Oxidation Reduction Potention	137.42	mv
GC-AP-MW-23	3/10/2021 13:21	pH	6.17	SU
GC-AP-MW-23	3/10/2021 13:21	Temperature	17.45	C
GC-AP-MW-23	3/10/2021 13:21	Turbidity	1.09	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	3/10/2021 14:01	Conductivity	724.02	uS/cm
GC-AP-PZ-4	3/10/2021 14:01	DO	1.1	mg/L
GC-AP-PZ-4	3/10/2021 14:01	Depth to Water Detail	12.11	ft
GC-AP-PZ-4	3/10/2021 14:01	Oxidation Reduction Potention	91.69	mv
GC-AP-PZ-4	3/10/2021 14:01	pH	5.66	SU
GC-AP-PZ-4	3/10/2021 14:01	Temperature	21.18	C
GC-AP-PZ-4	3/10/2021 14:01	Turbidity	0.88	NTU
GC-AP-PZ-4	3/10/2021 14:06	Conductivity	850.63	uS/cm
GC-AP-PZ-4	3/10/2021 14:06	DO	0.89	mg/L
GC-AP-PZ-4	3/10/2021 14:06	Depth to Water Detail	12.16	ft
GC-AP-PZ-4	3/10/2021 14:06	Oxidation Reduction Potention	64.84	mv
GC-AP-PZ-4	3/10/2021 14:06	pH	5.83	SU
GC-AP-PZ-4	3/10/2021 14:06	Temperature	21.23	C
GC-AP-PZ-4	3/10/2021 14:06	Turbidity	1.38	NTU
GC-AP-PZ-4	3/10/2021 14:11	Conductivity	915.67	uS/cm
GC-AP-PZ-4	3/10/2021 14:11	DO	0.82	mg/L
GC-AP-PZ-4	3/10/2021 14:11	Depth to Water Detail	12.16	ft
GC-AP-PZ-4	3/10/2021 14:11	Oxidation Reduction Potention	53.49	mv
GC-AP-PZ-4	3/10/2021 14:11	pH	5.9	SU
GC-AP-PZ-4	3/10/2021 14:11	Temperature	21.2	C
GC-AP-PZ-4	3/10/2021 14:11	Turbidity	1.59	NTU
GC-AP-PZ-4	3/10/2021 14:16	Conductivity	963.31	uS/cm
GC-AP-PZ-4	3/10/2021 14:16	DO	0.74	mg/L
GC-AP-PZ-4	3/10/2021 14:16	Depth to Water Detail	12.16	ft
GC-AP-PZ-4	3/10/2021 14:16	Oxidation Reduction Potention	45.83	mv
GC-AP-PZ-4	3/10/2021 14:16	pH	5.94	SU
GC-AP-PZ-4	3/10/2021 14:16	Temperature	21.12	C
GC-AP-PZ-4	3/10/2021 14:16	Turbidity	1.32	NTU
GC-AP-PZ-4	3/10/2021 14:21	Conductivity	1007.21	uS/cm
GC-AP-PZ-4	3/10/2021 14:21	DO	0.63	mg/L
GC-AP-PZ-4	3/10/2021 14:21	Depth to Water Detail	12.16	ft
GC-AP-PZ-4	3/10/2021 14:21	Oxidation Reduction Potention	40.4	mv
GC-AP-PZ-4	3/10/2021 14:21	pH	5.97	SU
GC-AP-PZ-4	3/10/2021 14:21	Temperature	21.15	C
GC-AP-PZ-4	3/10/2021 14:21	Turbidity	1.11	NTU
GC-AP-PZ-4	3/10/2021 14:26	Conductivity	1069.21	uS/cm
GC-AP-PZ-4	3/10/2021 14:26	DO	0.61	mg/L
GC-AP-PZ-4	3/10/2021 14:26	Depth to Water Detail	12.16	ft
GC-AP-PZ-4	3/10/2021 14:26	Oxidation Reduction Potention	34.5	mv
GC-AP-PZ-4	3/10/2021 14:26	pH	6	SU
GC-AP-PZ-4	3/10/2021 14:26	Temperature	21.1	C
GC-AP-PZ-4	3/10/2021 14:26	Turbidity	1.03	NTU
GC-AP-PZ-4	3/10/2021 14:31	Conductivity	1091.25	uS/cm
GC-AP-PZ-4	3/10/2021 14:31	DO	0.63	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	3/10/2021 14:31	Depth to Water Detail	12.16	ft
GC-AP-PZ-4	3/10/2021 14:31	Oxidation Reduction Potention	30.49	mv
GC-AP-PZ-4	3/10/2021 14:31	pH	6.02	SU
GC-AP-PZ-4	3/10/2021 14:31	Temperature	21.23	C
GC-AP-PZ-4	3/10/2021 14:31	Turbidity	1.31	NTU
GC-AP-PZ-4	3/10/2021 14:36	Conductivity	1123.16	uS/cm
GC-AP-PZ-4	3/10/2021 14:36	DO	0.57	mg/L
GC-AP-PZ-4	3/10/2021 14:36	Depth to Water Detail	12.16	ft
GC-AP-PZ-4	3/10/2021 14:36	Oxidation Reduction Potention	26.53	mv
GC-AP-PZ-4	3/10/2021 14:36	pH	6.06	SU
GC-AP-PZ-4	3/10/2021 14:36	Temperature	21.29	C
GC-AP-PZ-4	3/10/2021 14:36	Turbidity	0.82	NTU
GC-AP-PZ-4	3/10/2021 14:41	Conductivity	1139.01	uS/cm
GC-AP-PZ-4	3/10/2021 14:41	DO	0.51	mg/L
GC-AP-PZ-4	3/10/2021 14:41	Depth to Water Detail	12.16	ft
GC-AP-PZ-4	3/10/2021 14:41	Oxidation Reduction Potention	23.97	mv
GC-AP-PZ-4	3/10/2021 14:41	pH	6.04	SU
GC-AP-PZ-4	3/10/2021 14:41	Temperature	21.21	C
GC-AP-PZ-4	3/10/2021 14:41	Turbidity	0.95	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-2	3/16/2021 12:03	Conductivity	1111.87	uS/cm
GC-AP-MW-2	3/16/2021 12:03	DO	1.19	mg/L
GC-AP-MW-2	3/16/2021 12:03	Depth to Water Detail	14.18	ft
GC-AP-MW-2	3/16/2021 12:03	Oxidation Reduction Potention	-4.31	mv
GC-AP-MW-2	3/16/2021 12:03	pH	5.85	SU
GC-AP-MW-2	3/16/2021 12:03	Temperature	18.69	C
GC-AP-MW-2	3/16/2021 12:03	Turbidity	13.1	NTU
GC-AP-MW-2	3/16/2021 12:08	Conductivity	1102.41	uS/cm
GC-AP-MW-2	3/16/2021 12:08	DO	1.15	mg/L
GC-AP-MW-2	3/16/2021 12:08	Depth to Water Detail	14.18	ft
GC-AP-MW-2	3/16/2021 12:08	Oxidation Reduction Potention	-3.32	mv
GC-AP-MW-2	3/16/2021 12:08	pH	5.84	SU
GC-AP-MW-2	3/16/2021 12:08	Temperature	18.77	C
GC-AP-MW-2	3/16/2021 12:08	Turbidity	7.95	NTU
GC-AP-MW-2	3/16/2021 12:13	Conductivity	1098.06	uS/cm
GC-AP-MW-2	3/16/2021 12:13	DO	1.05	mg/L
GC-AP-MW-2	3/16/2021 12:13	Depth to Water Detail	14.18	ft
GC-AP-MW-2	3/16/2021 12:13	Oxidation Reduction Potention	-4.4	mv
GC-AP-MW-2	3/16/2021 12:13	pH	5.86	SU
GC-AP-MW-2	3/16/2021 12:13	Temperature	18.81	C
GC-AP-MW-2	3/16/2021 12:13	Turbidity	5.74	NTU
GC-AP-MW-2	3/16/2021 12:18	Conductivity	1098.78	uS/cm
GC-AP-MW-2	3/16/2021 12:18	DO	1.01	mg/L
GC-AP-MW-2	3/16/2021 12:18	Depth to Water Detail	14.18	ft
GC-AP-MW-2	3/16/2021 12:18	Oxidation Reduction Potention	-5.87	mv
GC-AP-MW-2	3/16/2021 12:18	pH	5.87	SU
GC-AP-MW-2	3/16/2021 12:18	Temperature	18.82	C
GC-AP-MW-2	3/16/2021 12:18	Turbidity	4.59	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-3	3/16/2021 11:05	Conductivity	576.41	uS/cm
GC-AP-MW-3	3/16/2021 11:05	DO	0.95	mg/L
GC-AP-MW-3	3/16/2021 11:05	Depth to Water Detail	14.81	ft
GC-AP-MW-3	3/16/2021 11:05	Oxidation Reduction Potention	-70.29	mv
GC-AP-MW-3	3/16/2021 11:05	pH	6.22	SU
GC-AP-MW-3	3/16/2021 11:05	Temperature	19.26	C
GC-AP-MW-3	3/16/2021 11:05	Turbidity	3.37	NTU
GC-AP-MW-3	3/16/2021 11:10	Conductivity	580.99	uS/cm
GC-AP-MW-3	3/16/2021 11:10	DO	0.78	mg/L
GC-AP-MW-3	3/16/2021 11:10	Depth to Water Detail	14.86	ft
GC-AP-MW-3	3/16/2021 11:10	Oxidation Reduction Potention	-73.38	mv
GC-AP-MW-3	3/16/2021 11:10	pH	6.23	SU
GC-AP-MW-3	3/16/2021 11:10	Temperature	19.31	C
GC-AP-MW-3	3/16/2021 11:10	Turbidity	1.6	NTU
GC-AP-MW-3	3/16/2021 11:15	Conductivity	583.72	uS/cm
GC-AP-MW-3	3/16/2021 11:15	DO	0.74	mg/L
GC-AP-MW-3	3/16/2021 11:15	Depth to Water Detail	14.9	ft
GC-AP-MW-3	3/16/2021 11:15	Oxidation Reduction Potention	-74.13	mv
GC-AP-MW-3	3/16/2021 11:15	pH	6.23	SU
GC-AP-MW-3	3/16/2021 11:15	Temperature	19.29	C
GC-AP-MW-3	3/16/2021 11:15	Turbidity	1.5	NTU
GC-AP-MW-3	3/16/2021 11:20	Conductivity	589.66	uS/cm
GC-AP-MW-3	3/16/2021 11:20	DO	0.7	mg/L
GC-AP-MW-3	3/16/2021 11:20	Depth to Water Detail	14.92	ft
GC-AP-MW-3	3/16/2021 11:20	Oxidation Reduction Potention	-75.72	mv
GC-AP-MW-3	3/16/2021 11:20	pH	6.23	SU
GC-AP-MW-3	3/16/2021 11:20	Temperature	19.34	C
GC-AP-MW-3	3/16/2021 11:20	Turbidity	1.49	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-5	3/16/2021 9:46	Conductivity	758.72	uS/cm
GC-AP-MW-5	3/16/2021 9:46	DO	0.97	mg/L
GC-AP-MW-5	3/16/2021 9:46	Depth to Water Detail	14.51	ft
GC-AP-MW-5	3/16/2021 9:46	Oxidation Reduction Potention	-134.53	mv
GC-AP-MW-5	3/16/2021 9:46	pH	6.6	SU
GC-AP-MW-5	3/16/2021 9:46	Temperature	18.77	C
GC-AP-MW-5	3/16/2021 9:46	Turbidity	33.4	NTU
GC-AP-MW-5	3/16/2021 9:51	Conductivity	761.73	uS/cm
GC-AP-MW-5	3/16/2021 9:51	DO	0.76	mg/L
GC-AP-MW-5	3/16/2021 9:51	Depth to Water Detail	14.51	ft
GC-AP-MW-5	3/16/2021 9:51	Oxidation Reduction Potention	-132.65	mv
GC-AP-MW-5	3/16/2021 9:51	pH	6.62	SU
GC-AP-MW-5	3/16/2021 9:51	Temperature	18.83	C
GC-AP-MW-5	3/16/2021 9:51	Turbidity	17.7	NTU
GC-AP-MW-5	3/16/2021 9:56	Conductivity	759.62	uS/cm
GC-AP-MW-5	3/16/2021 9:56	DO	0.68	mg/L
GC-AP-MW-5	3/16/2021 9:56	Depth to Water Detail	14.51	ft
GC-AP-MW-5	3/16/2021 9:56	Oxidation Reduction Potention	-132.06	mv
GC-AP-MW-5	3/16/2021 9:56	pH	6.63	SU
GC-AP-MW-5	3/16/2021 9:56	Temperature	18.81	C
GC-AP-MW-5	3/16/2021 9:56	Turbidity	16	NTU
GC-AP-MW-5	3/16/2021 10:01	Conductivity	762.64	uS/cm
GC-AP-MW-5	3/16/2021 10:01	DO	0.64	mg/L
GC-AP-MW-5	3/16/2021 10:01	Depth to Water Detail	14.51	ft
GC-AP-MW-5	3/16/2021 10:01	Oxidation Reduction Potention	-129.45	mv
GC-AP-MW-5	3/16/2021 10:01	pH	6.63	SU
GC-AP-MW-5	3/16/2021 10:01	Temperature	18.8	C
GC-AP-MW-5	3/16/2021 10:01	Turbidity	18.8	NTU
GC-AP-MW-5	3/16/2021 10:06	Conductivity	764.79	uS/cm
GC-AP-MW-5	3/16/2021 10:06	DO	0.61	mg/L
GC-AP-MW-5	3/16/2021 10:06	Depth to Water Detail	14.51	ft
GC-AP-MW-5	3/16/2021 10:06	Oxidation Reduction Potention	-127.64	mv
GC-AP-MW-5	3/16/2021 10:06	pH	6.64	SU
GC-AP-MW-5	3/16/2021 10:06	Temperature	18.81	C
GC-AP-MW-5	3/16/2021 10:06	Turbidity	17.7	NTU
GC-AP-MW-5	3/16/2021 10:11	Conductivity	764.85	uS/cm
GC-AP-MW-5	3/16/2021 10:11	DO	0.58	mg/L
GC-AP-MW-5	3/16/2021 10:11	Depth to Water Detail	14.51	ft
GC-AP-MW-5	3/16/2021 10:11	Oxidation Reduction Potention	-124.56	mv
GC-AP-MW-5	3/16/2021 10:11	pH	6.64	SU
GC-AP-MW-5	3/16/2021 10:11	Temperature	18.85	C
GC-AP-MW-5	3/16/2021 10:11	Turbidity	14.6	NTU
GC-AP-MW-5	3/16/2021 10:16	Conductivity	762.17	uS/cm
GC-AP-MW-5	3/16/2021 10:16	DO	0.58	mg/L

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-5	3/16/2021 10:16	Depth to Water Detail	14.51	ft
GC-AP-MW-5	3/16/2021 10:16	Oxidation Reduction Potention	-122.43	mv
GC-AP-MW-5	3/16/2021 10:16	pH	6.64	SU
GC-AP-MW-5	3/16/2021 10:16	Temperature	18.83	C
GC-AP-MW-5	3/16/2021 10:16	Turbidity	8.16	NTU
GC-AP-MW-5	3/16/2021 10:21	Conductivity	763.87	uS/cm
GC-AP-MW-5	3/16/2021 10:21	DO	0.57	mg/L
GC-AP-MW-5	3/16/2021 10:21	Depth to Water Detail	14.51	ft
GC-AP-MW-5	3/16/2021 10:21	Oxidation Reduction Potention	-120.57	mv
GC-AP-MW-5	3/16/2021 10:21	pH	6.64	SU
GC-AP-MW-5	3/16/2021 10:21	Temperature	18.86	C
GC-AP-MW-5	3/16/2021 10:21	Turbidity	8.65	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-10	3/15/2021 10:50	Conductivity	660.4	uS/cm
GC-AP-MW-10	3/15/2021 10:50	DO	0.49	mg/L
GC-AP-MW-10	3/15/2021 10:50	Depth to Water Detail	5.73	ft
GC-AP-MW-10	3/15/2021 10:50	Oxidation Reduction Potention	-113.77	mv
GC-AP-MW-10	3/15/2021 10:50	pH	6.19	SU
GC-AP-MW-10	3/15/2021 10:50	Temperature	19.5	C
GC-AP-MW-10	3/15/2021 10:50	Turbidity	0.55	NTU
GC-AP-MW-10	3/15/2021 10:55	Conductivity	665.96	uS/cm
GC-AP-MW-10	3/15/2021 10:55	DO	0.4	mg/L
GC-AP-MW-10	3/15/2021 10:55	Depth to Water Detail	5.73	ft
GC-AP-MW-10	3/15/2021 10:55	Oxidation Reduction Potention	-110.24	mv
GC-AP-MW-10	3/15/2021 10:55	pH	6.24	SU
GC-AP-MW-10	3/15/2021 10:55	Temperature	19.51	C
GC-AP-MW-10	3/15/2021 10:55	Turbidity	0.49	NTU
GC-AP-MW-10	3/15/2021 11:00	Conductivity	667.02	uS/cm
GC-AP-MW-10	3/15/2021 11:00	DO	0.37	mg/L
GC-AP-MW-10	3/15/2021 11:00	Depth to Water Detail	5.73	ft
GC-AP-MW-10	3/15/2021 11:00	Oxidation Reduction Potention	-106.59	mv
GC-AP-MW-10	3/15/2021 11:00	pH	6.27	SU
GC-AP-MW-10	3/15/2021 11:00	Temperature	19.53	C
GC-AP-MW-10	3/15/2021 11:00	Turbidity	0.35	NTU
GC-AP-MW-10	3/15/2021 11:05	Conductivity	670.26	uS/cm
GC-AP-MW-10	3/15/2021 11:05	DO	0.34	mg/L
GC-AP-MW-10	3/15/2021 11:05	Depth to Water Detail	5.73	ft
GC-AP-MW-10	3/15/2021 11:05	Oxidation Reduction Potention	-103.6	mv
GC-AP-MW-10	3/15/2021 11:05	pH	6.29	SU
GC-AP-MW-10	3/15/2021 11:05	Temperature	19.55	C
GC-AP-MW-10	3/15/2021 11:05	Turbidity	0.4	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-13	3/15/2021 11:44	Conductivity	491.77	uS/cm
GC-AP-MW-13	3/15/2021 11:44	DO	2.77	mg/L
GC-AP-MW-13	3/15/2021 11:44	Depth to Water Detail	21.42	ft
GC-AP-MW-13	3/15/2021 11:44	Oxidation Reduction Potention	86.76	mv
GC-AP-MW-13	3/15/2021 11:44	pH	5.88	SU
GC-AP-MW-13	3/15/2021 11:44	Temperature	16.2	C
GC-AP-MW-13	3/15/2021 11:44	Turbidity	0.41	NTU
GC-AP-MW-13	3/15/2021 11:49	Conductivity	513.02	uS/cm
GC-AP-MW-13	3/15/2021 11:49	DO	2.68	mg/L
GC-AP-MW-13	3/15/2021 11:49	Depth to Water Detail	21.42	ft
GC-AP-MW-13	3/15/2021 11:49	Oxidation Reduction Potention	95.74	mv
GC-AP-MW-13	3/15/2021 11:49	pH	5.92	SU
GC-AP-MW-13	3/15/2021 11:49	Temperature	16.21	C
GC-AP-MW-13	3/15/2021 11:49	Turbidity	0.39	NTU
GC-AP-MW-13	3/15/2021 11:54	Conductivity	522.81	uS/cm
GC-AP-MW-13	3/15/2021 11:54	DO	2.61	mg/L
GC-AP-MW-13	3/15/2021 11:54	Depth to Water Detail	21.42	ft
GC-AP-MW-13	3/15/2021 11:54	Oxidation Reduction Potention	103.78	mv
GC-AP-MW-13	3/15/2021 11:54	pH	5.94	SU
GC-AP-MW-13	3/15/2021 11:54	Temperature	16.22	C
GC-AP-MW-13	3/15/2021 11:54	Turbidity	0.41	NTU
GC-AP-MW-13	3/15/2021 11:59	Conductivity	530.52	uS/cm
GC-AP-MW-13	3/15/2021 11:59	DO	2.52	mg/L
GC-AP-MW-13	3/15/2021 11:59	Depth to Water Detail	21.42	ft
GC-AP-MW-13	3/15/2021 11:59	Oxidation Reduction Potention	108.7	mv
GC-AP-MW-13	3/15/2021 11:59	pH	6	SU
GC-AP-MW-13	3/15/2021 11:59	Temperature	16.22	C
GC-AP-MW-13	3/15/2021 11:59	Turbidity	0.44	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-31	3/15/2021 12:56	Conductivity	63.71	uS/cm
GC-AP-MW-31	3/15/2021 12:56	DO	2.41	mg/L
GC-AP-MW-31	3/15/2021 12:56	Depth to Water Detail	6.8	ft
GC-AP-MW-31	3/15/2021 12:56	Oxidation Reduction Potention	175.58	mv
GC-AP-MW-31	3/15/2021 12:56	pH	5.2	SU
GC-AP-MW-31	3/15/2021 12:56	Temperature	17.15	C
GC-AP-MW-31	3/15/2021 12:56	Turbidity	1.5	NTU
GC-AP-MW-31	3/15/2021 13:01	Conductivity	64.6	uS/cm
GC-AP-MW-31	3/15/2021 13:01	DO	2.37	mg/L
GC-AP-MW-31	3/15/2021 13:01	Depth to Water Detail	6.8	ft
GC-AP-MW-31	3/15/2021 13:01	Oxidation Reduction Potention	183.22	mv
GC-AP-MW-31	3/15/2021 13:01	pH	5.26	SU
GC-AP-MW-31	3/15/2021 13:01	Temperature	17.22	C
GC-AP-MW-31	3/15/2021 13:01	Turbidity	0.67	NTU
GC-AP-MW-31	3/15/2021 13:06	Conductivity	64.25	uS/cm
GC-AP-MW-31	3/15/2021 13:06	DO	2.29	mg/L
GC-AP-MW-31	3/15/2021 13:06	Depth to Water Detail	6.8	ft
GC-AP-MW-31	3/15/2021 13:06	Oxidation Reduction Potention	184.89	mv
GC-AP-MW-31	3/15/2021 13:06	pH	5.35	SU
GC-AP-MW-31	3/15/2021 13:06	Temperature	17.18	C
GC-AP-MW-31	3/15/2021 13:06	Turbidity	0.4	NTU
GC-AP-MW-31	3/15/2021 13:11	Conductivity	69.54	uS/cm
GC-AP-MW-31	3/15/2021 13:11	DO	2.11	mg/L
GC-AP-MW-31	3/15/2021 13:11	Depth to Water Detail	6.8	ft
GC-AP-MW-31	3/15/2021 13:11	Oxidation Reduction Potention	183.26	mv
GC-AP-MW-31	3/15/2021 13:11	pH	5.48	SU
GC-AP-MW-31	3/15/2021 13:11	Temperature	17.25	C
GC-AP-MW-31	3/15/2021 13:11	Turbidity	0.55	NTU
GC-AP-MW-31	3/15/2021 13:16	Conductivity	68.52	uS/cm
GC-AP-MW-31	3/15/2021 13:16	DO	2.15	mg/L
GC-AP-MW-31	3/15/2021 13:16	Depth to Water Detail	6.8	ft
GC-AP-MW-31	3/15/2021 13:16	Oxidation Reduction Potention	183.17	mv
GC-AP-MW-31	3/15/2021 13:16	pH	5.54	SU
GC-AP-MW-31	3/15/2021 13:16	Temperature	17.26	C
GC-AP-MW-31	3/15/2021 13:16	Turbidity	0.51	NTU
GC-AP-MW-31	3/15/2021 13:21	Conductivity	72.09	uS/cm
GC-AP-MW-31	3/15/2021 13:21	DO	2.16	mg/L
GC-AP-MW-31	3/15/2021 13:21	Depth to Water Detail	6.8	ft
GC-AP-MW-31	3/15/2021 13:21	Oxidation Reduction Potention	180.84	mv
GC-AP-MW-31	3/15/2021 13:21	pH	5.61	SU
GC-AP-MW-31	3/15/2021 13:21	Temperature	17.24	C
GC-AP-MW-31	3/15/2021 13:21	Turbidity	0.62	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-32	3/15/2021 14:00	Conductivity	75.2	uS/cm
GC-AP-MW-32	3/15/2021 14:00	DO	6.76	mg/L
GC-AP-MW-32	3/15/2021 14:00	Depth to Water Detail	19.96	ft
GC-AP-MW-32	3/15/2021 14:00	Oxidation Reduction Potention	254.24	mv
GC-AP-MW-32	3/15/2021 14:00	pH	4.41	SU
GC-AP-MW-32	3/15/2021 14:00	Temperature	18.29	C
GC-AP-MW-32	3/15/2021 14:00	Turbidity	0.5	NTU
GC-AP-MW-32	3/15/2021 14:05	Conductivity	74.34	uS/cm
GC-AP-MW-32	3/15/2021 14:05	DO	6.72	mg/L
GC-AP-MW-32	3/15/2021 14:05	Depth to Water Detail	19.96	ft
GC-AP-MW-32	3/15/2021 14:05	Oxidation Reduction Potention	262.58	mv
GC-AP-MW-32	3/15/2021 14:05	pH	4.48	SU
GC-AP-MW-32	3/15/2021 14:05	Temperature	18.29	C
GC-AP-MW-32	3/15/2021 14:05	Turbidity	0.48	NTU
GC-AP-MW-32	3/15/2021 14:10	Conductivity	74.71	uS/cm
GC-AP-MW-32	3/15/2021 14:10	DO	6.7	mg/L
GC-AP-MW-32	3/15/2021 14:10	Depth to Water Detail	19.96	ft
GC-AP-MW-32	3/15/2021 14:10	Oxidation Reduction Potention	270.43	mv
GC-AP-MW-32	3/15/2021 14:10	pH	4.53	SU
GC-AP-MW-32	3/15/2021 14:10	Temperature	18.29	C
GC-AP-MW-32	3/15/2021 14:10	Turbidity	0.37	NTU
GC-AP-MW-32	3/15/2021 14:15	Conductivity	71.72	uS/cm
GC-AP-MW-32	3/15/2021 14:15	DO	6.69	mg/L
GC-AP-MW-32	3/15/2021 14:15	Depth to Water Detail	19.96	ft
GC-AP-MW-32	3/15/2021 14:15	Oxidation Reduction Potention	276.65	mv
GC-AP-MW-32	3/15/2021 14:15	pH	4.57	SU
GC-AP-MW-32	3/15/2021 14:15	Temperature	18.31	C
GC-AP-MW-32	3/15/2021 14:15	Turbidity	0.33	NTU

**Alabama Power Company
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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-33	3/15/2021 14:59	Conductivity	67.96	uS/cm
GC-AP-MW-33	3/15/2021 14:59	DO	4.69	mg/L
GC-AP-MW-33	3/15/2021 14:59	Depth to Water Detail	17.16	ft
GC-AP-MW-33	3/15/2021 14:59	Oxidation Reduction Potention	181.98	mv
GC-AP-MW-33	3/15/2021 14:59	pH	5.65	SU
GC-AP-MW-33	3/15/2021 14:59	Temperature	19.89	C
GC-AP-MW-33	3/15/2021 14:59	Turbidity	0.41	NTU
GC-AP-MW-33	3/15/2021 15:04	Conductivity	70.17	uS/cm
GC-AP-MW-33	3/15/2021 15:04	DO	4.54	mg/L
GC-AP-MW-33	3/15/2021 15:04	Depth to Water Detail	17.16	ft
GC-AP-MW-33	3/15/2021 15:04	Oxidation Reduction Potention	175.02	mv
GC-AP-MW-33	3/15/2021 15:04	pH	5.73	SU
GC-AP-MW-33	3/15/2021 15:04	Temperature	19.86	C
GC-AP-MW-33	3/15/2021 15:04	Turbidity	0.48	NTU
GC-AP-MW-33	3/15/2021 15:09	Conductivity	71.74	uS/cm
GC-AP-MW-33	3/15/2021 15:09	DO	4.48	mg/L
GC-AP-MW-33	3/15/2021 15:09	Depth to Water Detail	17.16	ft
GC-AP-MW-33	3/15/2021 15:09	Oxidation Reduction Potention	171.68	mv
GC-AP-MW-33	3/15/2021 15:09	pH	5.8	SU
GC-AP-MW-33	3/15/2021 15:09	Temperature	19.79	C
GC-AP-MW-33	3/15/2021 15:09	Turbidity	0.44	NTU
GC-AP-MW-33	3/15/2021 15:14	Conductivity	70.2	uS/cm
GC-AP-MW-33	3/15/2021 15:14	DO	4.48	mg/L
GC-AP-MW-33	3/15/2021 15:14	Depth to Water Detail	17.16	ft
GC-AP-MW-33	3/15/2021 15:14	Oxidation Reduction Potention	169.4	mv
GC-AP-MW-33	3/15/2021 15:14	pH	5.83	SU
GC-AP-MW-33	3/15/2021 15:14	Temperature	19.78	C
GC-AP-MW-33	3/15/2021 15:14	Turbidity	0.35	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-34HA	3/15/2021 15:57	Conductivity	148.67	uS/cm
GC-AP-MW-34HA	3/15/2021 15:57	DO	1.45	mg/L
GC-AP-MW-34HA	3/15/2021 15:57	Depth to Water Detail	22.62	ft
GC-AP-MW-34HA	3/15/2021 15:57	Oxidation Reduction Potention	194.16	mv
GC-AP-MW-34HA	3/15/2021 15:57	pH	5.26	SU
GC-AP-MW-34HA	3/15/2021 15:57	Temperature	20.72	C
GC-AP-MW-34HA	3/15/2021 15:57	Turbidity	0.89	NTU
GC-AP-MW-34HA	3/15/2021 16:02	Conductivity	148.89	uS/cm
GC-AP-MW-34HA	3/15/2021 16:02	DO	1.34	mg/L
GC-AP-MW-34HA	3/15/2021 16:02	Depth to Water Detail	22.62	ft
GC-AP-MW-34HA	3/15/2021 16:02	Oxidation Reduction Potention	198.19	mv
GC-AP-MW-34HA	3/15/2021 16:02	pH	5.28	SU
GC-AP-MW-34HA	3/15/2021 16:02	Temperature	20.73	C
GC-AP-MW-34HA	3/15/2021 16:02	Turbidity	0.52	NTU
GC-AP-MW-34HA	3/15/2021 16:07	Conductivity	148.42	uS/cm
GC-AP-MW-34HA	3/15/2021 16:07	DO	1.33	mg/L
GC-AP-MW-34HA	3/15/2021 16:07	Depth to Water Detail	22.62	ft
GC-AP-MW-34HA	3/15/2021 16:07	Oxidation Reduction Potention	197.64	mv
GC-AP-MW-34HA	3/15/2021 16:07	pH	5.31	SU
GC-AP-MW-34HA	3/15/2021 16:07	Temperature	20.68	C
GC-AP-MW-34HA	3/15/2021 16:07	Turbidity	0.55	NTU
GC-AP-MW-34HA	3/15/2021 16:12	Conductivity	148.97	uS/cm
GC-AP-MW-34HA	3/15/2021 16:12	DO	1.36	mg/L
GC-AP-MW-34HA	3/15/2021 16:12	Depth to Water Detail	22.62	ft
GC-AP-MW-34HA	3/15/2021 16:12	Oxidation Reduction Potention	198.38	mv
GC-AP-MW-34HA	3/15/2021 16:12	pH	5.32	SU
GC-AP-MW-34HA	3/15/2021 16:12	Temperature	20.68	C
GC-AP-MW-34HA	3/15/2021 16:12	Turbidity	0.51	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-1	3/16/2021 12:28	Conductivity	1635.07	uS/cm
GC-AP-MW-1	3/16/2021 12:28	DO	1.16	mg/L
GC-AP-MW-1	3/16/2021 12:28	Depth to Water Detail	18.44	ft
GC-AP-MW-1	3/16/2021 12:28	Oxidation Reduction Potention	44.89	mv
GC-AP-MW-1	3/16/2021 12:28	pH	5.69	SU
GC-AP-MW-1	3/16/2021 12:28	Temperature	19.22	C
GC-AP-MW-1	3/16/2021 12:28	Turbidity	9.3	NTU
GC-AP-MW-1	3/16/2021 12:33	Conductivity	1633.91	uS/cm
GC-AP-MW-1	3/16/2021 12:33	DO	0.93	mg/L
GC-AP-MW-1	3/16/2021 12:33	Depth to Water Detail	18.44	ft
GC-AP-MW-1	3/16/2021 12:33	Oxidation Reduction Potention	40.43	mv
GC-AP-MW-1	3/16/2021 12:33	pH	5.68	SU
GC-AP-MW-1	3/16/2021 12:33	Temperature	19.19	C
GC-AP-MW-1	3/16/2021 12:33	Turbidity	3.6	NTU
GC-AP-MW-1	3/16/2021 12:38	Conductivity	1644.87	uS/cm
GC-AP-MW-1	3/16/2021 12:38	DO	0.81	mg/L
GC-AP-MW-1	3/16/2021 12:38	Depth to Water Detail	18.44	ft
GC-AP-MW-1	3/16/2021 12:38	Oxidation Reduction Potention	38.84	mv
GC-AP-MW-1	3/16/2021 12:38	pH	5.67	SU
GC-AP-MW-1	3/16/2021 12:38	Temperature	19.22	C
GC-AP-MW-1	3/16/2021 12:38	Turbidity	2.62	NTU
GC-AP-MW-1	3/16/2021 12:43	Conductivity	1647.51	uS/cm
GC-AP-MW-1	3/16/2021 12:43	DO	0.75	mg/L
GC-AP-MW-1	3/16/2021 12:43	Depth to Water Detail	18.44	ft
GC-AP-MW-1	3/16/2021 12:43	Oxidation Reduction Potention	38.23	mv
GC-AP-MW-1	3/16/2021 12:43	pH	5.67	SU
GC-AP-MW-1	3/16/2021 12:43	Temperature	19.22	C
GC-AP-MW-1	3/16/2021 12:43	Turbidity	1.87	NTU
GC-AP-MW-1	3/16/2021 12:48	Conductivity	1649.88	uS/cm
GC-AP-MW-1	3/16/2021 12:48	DO	0.73	mg/L
GC-AP-MW-1	3/16/2021 12:48	Depth to Water Detail	18.44	ft
GC-AP-MW-1	3/16/2021 12:48	Oxidation Reduction Potention	37.95	mv
GC-AP-MW-1	3/16/2021 12:48	pH	5.67	SU
GC-AP-MW-1	3/16/2021 12:48	Temperature	19.2	C
GC-AP-MW-1	3/16/2021 12:48	Turbidity	1.59	NTU
GC-AP-MW-1	3/16/2021 12:53	Conductivity	1665.83	uS/cm
GC-AP-MW-1	3/16/2021 12:53	DO	0.72	mg/L
GC-AP-MW-1	3/16/2021 12:53	Depth to Water Detail	18.44	ft
GC-AP-MW-1	3/16/2021 12:53	Oxidation Reduction Potention	38.24	mv
GC-AP-MW-1	3/16/2021 12:53	pH	5.67	SU
GC-AP-MW-1	3/16/2021 12:53	Temperature	19.21	C
GC-AP-MW-1	3/16/2021 12:53	Turbidity	1.33	NTU

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Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-26	3/15/2021 15:29	Conductivity	34.02	uS/cm
GC-AP-MW-26	3/15/2021 15:29	DO	4.24	mg/L
GC-AP-MW-26	3/15/2021 15:29	Depth to Water Detail	5.75	ft
GC-AP-MW-26	3/15/2021 15:29	Oxidation Reduction Potention	111.38	mv
GC-AP-MW-26	3/15/2021 15:29	pH	4.54	SU
GC-AP-MW-26	3/15/2021 15:29	Temperature	18.18	C
GC-AP-MW-26	3/15/2021 15:29	Turbidity	1.11	NTU
GC-AP-MW-26	3/15/2021 15:34	Conductivity	36.34	uS/cm
GC-AP-MW-26	3/15/2021 15:34	DO	3.94	mg/L
GC-AP-MW-26	3/15/2021 15:34	Depth to Water Detail	5.75	ft
GC-AP-MW-26	3/15/2021 15:34	Oxidation Reduction Potention	104.56	mv
GC-AP-MW-26	3/15/2021 15:34	pH	4.74	SU
GC-AP-MW-26	3/15/2021 15:34	Temperature	18.15	C
GC-AP-MW-26	3/15/2021 15:34	Turbidity	0.81	NTU
GC-AP-MW-26	3/15/2021 15:39	Conductivity	41.4	uS/cm
GC-AP-MW-26	3/15/2021 15:39	DO	3.65	mg/L
GC-AP-MW-26	3/15/2021 15:39	Depth to Water Detail	5.75	ft
GC-AP-MW-26	3/15/2021 15:39	Oxidation Reduction Potention	98.59	mv
GC-AP-MW-26	3/15/2021 15:39	pH	4.99	SU
GC-AP-MW-26	3/15/2021 15:39	Temperature	18.06	C
GC-AP-MW-26	3/15/2021 15:39	Turbidity	0.87	NTU
GC-AP-MW-26	3/15/2021 15:44	Conductivity	48.27	uS/cm
GC-AP-MW-26	3/15/2021 15:44	DO	3.27	mg/L
GC-AP-MW-26	3/15/2021 15:44	Depth to Water Detail	5.75	ft
GC-AP-MW-26	3/15/2021 15:44	Oxidation Reduction Potention	92.48	mv
GC-AP-MW-26	3/15/2021 15:44	pH	5.2	SU
GC-AP-MW-26	3/15/2021 15:44	Temperature	18.14	C
GC-AP-MW-26	3/15/2021 15:44	Turbidity	0.62	NTU
GC-AP-MW-26	3/15/2021 15:49	Conductivity	49.62	uS/cm
GC-AP-MW-26	3/15/2021 15:49	DO	3.19	mg/L
GC-AP-MW-26	3/15/2021 15:49	Depth to Water Detail	5.75	ft
GC-AP-MW-26	3/15/2021 15:49	Oxidation Reduction Potention	86.91	mv
GC-AP-MW-26	3/15/2021 15:49	pH	5.28	SU
GC-AP-MW-26	3/15/2021 15:49	Temperature	18.14	C
GC-AP-MW-26	3/15/2021 15:49	Turbidity	0.84	NTU
GC-AP-MW-26	3/15/2021 15:54	Conductivity	51.52	uS/cm
GC-AP-MW-26	3/15/2021 15:54	DO	3.06	mg/L
GC-AP-MW-26	3/15/2021 15:54	Depth to Water Detail	5.75	ft
GC-AP-MW-26	3/15/2021 15:54	Oxidation Reduction Potention	87.6	mv
GC-AP-MW-26	3/15/2021 15:54	pH	5.3	SU
GC-AP-MW-26	3/15/2021 15:54	Temperature	18.22	C
GC-AP-MW-26	3/15/2021 15:54	Turbidity	0.79	NTU
GC-AP-MW-26	3/15/2021 15:59	Conductivity	49.24	uS/cm
GC-AP-MW-26	3/15/2021 15:59	DO	3.12	mg/L

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-26	3/15/2021 15:59	Depth to Water Detail	5.75	ft
GC-AP-MW-26	3/15/2021 15:59	Oxidation Reduction Potention	84.96	mv
GC-AP-MW-26	3/15/2021 15:59	pH	5.32	SU
GC-AP-MW-26	3/15/2021 15:59	Temperature	18.15	C
GC-AP-MW-26	3/15/2021 15:59	Turbidity	0.73	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-27	3/15/2021 14:49	Conductivity	28.42	uS/cm
GC-AP-MW-27	3/15/2021 14:49	DO	5.91	mg/L
GC-AP-MW-27	3/15/2021 14:49	Depth to Water Detail	7.8	ft
GC-AP-MW-27	3/15/2021 14:49	Oxidation Reduction Potention	123.87	mv
GC-AP-MW-27	3/15/2021 14:49	pH	4.32	SU
GC-AP-MW-27	3/15/2021 14:49	Temperature	18.7	C
GC-AP-MW-27	3/15/2021 14:49	Turbidity	0.55	NTU
GC-AP-MW-27	3/15/2021 14:54	Conductivity	28.28	uS/cm
GC-AP-MW-27	3/15/2021 14:54	DO	5.85	mg/L
GC-AP-MW-27	3/15/2021 14:54	Depth to Water Detail	7.8	ft
GC-AP-MW-27	3/15/2021 14:54	Oxidation Reduction Potention	111.39	mv
GC-AP-MW-27	3/15/2021 14:54	pH	4.54	SU
GC-AP-MW-27	3/15/2021 14:54	Temperature	18.76	C
GC-AP-MW-27	3/15/2021 14:54	Turbidity	0.77	NTU
GC-AP-MW-27	3/15/2021 14:59	Conductivity	28.63	uS/cm
GC-AP-MW-27	3/15/2021 14:59	DO	5.75	mg/L
GC-AP-MW-27	3/15/2021 14:59	Depth to Water Detail	7.8	ft
GC-AP-MW-27	3/15/2021 14:59	Oxidation Reduction Potention	103.83	mv
GC-AP-MW-27	3/15/2021 14:59	pH	4.65	SU
GC-AP-MW-27	3/15/2021 14:59	Temperature	18.75	C
GC-AP-MW-27	3/15/2021 14:59	Turbidity	0.6	NTU
GC-AP-MW-27	3/15/2021 15:04	Conductivity	29.28	uS/cm
GC-AP-MW-27	3/15/2021 15:04	DO	5.7	mg/L
GC-AP-MW-27	3/15/2021 15:04	Depth to Water Detail	7.8	ft
GC-AP-MW-27	3/15/2021 15:04	Oxidation Reduction Potention	99.55	mv
GC-AP-MW-27	3/15/2021 15:04	pH	4.73	SU
GC-AP-MW-27	3/15/2021 15:04	Temperature	18.88	C
GC-AP-MW-27	3/15/2021 15:04	Turbidity	1.01	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-28	3/15/2021 13:59	Conductivity	47.84	uS/cm
GC-AP-MW-28	3/15/2021 13:59	DO	8.28	mg/L
GC-AP-MW-28	3/15/2021 13:59	Depth to Water Detail	7.82	ft
GC-AP-MW-28	3/15/2021 13:59	Oxidation Reduction Potention	146.42	mv
GC-AP-MW-28	3/15/2021 13:59	pH	3.93	SU
GC-AP-MW-28	3/15/2021 13:59	Temperature	18.33	C
GC-AP-MW-28	3/15/2021 13:59	Turbidity	0.9	NTU
GC-AP-MW-28	3/15/2021 14:04	Conductivity	47.08	uS/cm
GC-AP-MW-28	3/15/2021 14:04	DO	8.24	mg/L
GC-AP-MW-28	3/15/2021 14:04	Depth to Water Detail	7.82	ft
GC-AP-MW-28	3/15/2021 14:04	Oxidation Reduction Potention	139.36	mv
GC-AP-MW-28	3/15/2021 14:04	pH	4.05	SU
GC-AP-MW-28	3/15/2021 14:04	Temperature	18.28	C
GC-AP-MW-28	3/15/2021 14:04	Turbidity	1.07	NTU
GC-AP-MW-28	3/15/2021 14:09	Conductivity	46.82	uS/cm
GC-AP-MW-28	3/15/2021 14:09	DO	8.05	mg/L
GC-AP-MW-28	3/15/2021 14:09	Depth to Water Detail	7.82	ft
GC-AP-MW-28	3/15/2021 14:09	Oxidation Reduction Potention	127.4	mv
GC-AP-MW-28	3/15/2021 14:09	pH	4.27	SU
GC-AP-MW-28	3/15/2021 14:09	Temperature	18.36	C
GC-AP-MW-28	3/15/2021 14:09	Turbidity	0.89	NTU
GC-AP-MW-28	3/15/2021 14:14	Conductivity	46.37	uS/cm
GC-AP-MW-28	3/15/2021 14:14	DO	8	mg/L
GC-AP-MW-28	3/15/2021 14:14	Depth to Water Detail	7.82	ft
GC-AP-MW-28	3/15/2021 14:14	Oxidation Reduction Potention	118.38	mv
GC-AP-MW-28	3/15/2021 14:14	pH	4.43	SU
GC-AP-MW-28	3/15/2021 14:14	Temperature	18.28	C
GC-AP-MW-28	3/15/2021 14:14	Turbidity	1.17	NTU
GC-AP-MW-28	3/15/2021 14:19	Conductivity	45.97	uS/cm
GC-AP-MW-28	3/15/2021 14:19	DO	8.03	mg/L
GC-AP-MW-28	3/15/2021 14:19	Depth to Water Detail	7.82	ft
GC-AP-MW-28	3/15/2021 14:19	Oxidation Reduction Potention	116.94	mv
GC-AP-MW-28	3/15/2021 14:19	pH	4.45	SU
GC-AP-MW-28	3/15/2021 14:19	Temperature	18.26	C
GC-AP-MW-28	3/15/2021 14:19	Turbidity	0.56	NTU

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Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-29	3/15/2021 12:59	Conductivity	17.08	uS/cm
GC-AP-MW-29	3/15/2021 12:59	DO	9.35	mg/L
GC-AP-MW-29	3/15/2021 12:59	Depth to Water Detail	6.28	ft
GC-AP-MW-29	3/15/2021 12:59	Oxidation Reduction Potention	137.17	mv
GC-AP-MW-29	3/15/2021 12:59	pH	4.16	SU
GC-AP-MW-29	3/15/2021 12:59	Temperature	17.84	C
GC-AP-MW-29	3/15/2021 12:59	Turbidity	1.14	NTU
GC-AP-MW-29	3/15/2021 13:04	Conductivity	16.19	uS/cm
GC-AP-MW-29	3/15/2021 13:04	DO	9.36	mg/L
GC-AP-MW-29	3/15/2021 13:04	Depth to Water Detail	6.28	ft
GC-AP-MW-29	3/15/2021 13:04	Oxidation Reduction Potention	139.14	mv
GC-AP-MW-29	3/15/2021 13:04	pH	4.19	SU
GC-AP-MW-29	3/15/2021 13:04	Temperature	17.91	C
GC-AP-MW-29	3/15/2021 13:04	Turbidity	1.41	NTU
GC-AP-MW-29	3/15/2021 13:09	Conductivity	16.84	uS/cm
GC-AP-MW-29	3/15/2021 13:09	DO	9.3	mg/L
GC-AP-MW-29	3/15/2021 13:09	Depth to Water Detail	6.28	ft
GC-AP-MW-29	3/15/2021 13:09	Oxidation Reduction Potention	133.19	mv
GC-AP-MW-29	3/15/2021 13:09	pH	4.32	SU
GC-AP-MW-29	3/15/2021 13:09	Temperature	18	C
GC-AP-MW-29	3/15/2021 13:09	Turbidity	1.82	NTU
GC-AP-MW-29	3/15/2021 13:14	Conductivity	17.14	uS/cm
GC-AP-MW-29	3/15/2021 13:14	DO	9.25	mg/L
GC-AP-MW-29	3/15/2021 13:14	Depth to Water Detail	6.28	ft
GC-AP-MW-29	3/15/2021 13:14	Oxidation Reduction Potention	124.22	mv
GC-AP-MW-29	3/15/2021 13:14	pH	4.54	SU
GC-AP-MW-29	3/15/2021 13:14	Temperature	18.02	C
GC-AP-MW-29	3/15/2021 13:14	Turbidity	1.03	NTU
GC-AP-MW-29	3/15/2021 13:19	Conductivity	17.07	uS/cm
GC-AP-MW-29	3/15/2021 13:19	DO	9.18	mg/L
GC-AP-MW-29	3/15/2021 13:19	Depth to Water Detail	6.28	ft
GC-AP-MW-29	3/15/2021 13:19	Oxidation Reduction Potention	117.43	mv
GC-AP-MW-29	3/15/2021 13:19	pH	4.68	SU
GC-AP-MW-29	3/15/2021 13:19	Temperature	17.99	C
GC-AP-MW-29	3/15/2021 13:19	Turbidity	1.14	NTU
GC-AP-MW-29	3/15/2021 13:24	Conductivity	17.35	uS/cm
GC-AP-MW-29	3/15/2021 13:24	DO	9.06	mg/L
GC-AP-MW-29	3/15/2021 13:24	Depth to Water Detail	6.28	ft
GC-AP-MW-29	3/15/2021 13:24	Oxidation Reduction Potention	111.01	mv
GC-AP-MW-29	3/15/2021 13:24	pH	4.79	SU
GC-AP-MW-29	3/15/2021 13:24	Temperature	18.07	C
GC-AP-MW-29	3/15/2021 13:24	Turbidity	1.1	NTU
GC-AP-MW-29	3/15/2021 13:29	Conductivity	17.66	uS/cm
GC-AP-MW-29	3/15/2021 13:29	DO	9.14	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-29	3/15/2021 13:29	Depth to Water Detail	6.28	ft
GC-AP-MW-29	3/15/2021 13:29	Oxidation Reduction Potention	110.24	mv
GC-AP-MW-29	3/15/2021 13:29	pH	4.79	SU
GC-AP-MW-29	3/15/2021 13:29	Temperature	18	C
GC-AP-MW-29	3/15/2021 13:29	Turbidity	1.14	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-30	3/15/2021 11:56	Conductivity	31.37	uS/cm
GC-AP-MW-30	3/15/2021 11:56	DO	4.17	mg/L
GC-AP-MW-30	3/15/2021 11:56	Depth to Water Detail	7.95	ft
GC-AP-MW-30	3/15/2021 11:56	Oxidation Reduction Potention	88.74	mv
GC-AP-MW-30	3/15/2021 11:56	pH	4.78	SU
GC-AP-MW-30	3/15/2021 11:56	Temperature	18.12	C
GC-AP-MW-30	3/15/2021 11:56	Turbidity	1.4	NTU
GC-AP-MW-30	3/15/2021 12:01	Conductivity	30.98	uS/cm
GC-AP-MW-30	3/15/2021 12:01	DO	4.06	mg/L
GC-AP-MW-30	3/15/2021 12:01	Depth to Water Detail	7.95	ft
GC-AP-MW-30	3/15/2021 12:01	Oxidation Reduction Potention	85.28	mv
GC-AP-MW-30	3/15/2021 12:01	pH	4.88	SU
GC-AP-MW-30	3/15/2021 12:01	Temperature	18.11	C
GC-AP-MW-30	3/15/2021 12:01	Turbidity	1.44	NTU
GC-AP-MW-30	3/15/2021 12:06	Conductivity	30.65	uS/cm
GC-AP-MW-30	3/15/2021 12:06	DO	4	mg/L
GC-AP-MW-30	3/15/2021 12:06	Depth to Water Detail	7.95	ft
GC-AP-MW-30	3/15/2021 12:06	Oxidation Reduction Potention	84.08	mv
GC-AP-MW-30	3/15/2021 12:06	pH	4.93	SU
GC-AP-MW-30	3/15/2021 12:06	Temperature	18.17	C
GC-AP-MW-30	3/15/2021 12:06	Turbidity	0.92	NTU
GC-AP-MW-30	3/15/2021 12:11	Conductivity	30.49	uS/cm
GC-AP-MW-30	3/15/2021 12:11	DO	4.01	mg/L
GC-AP-MW-30	3/15/2021 12:11	Depth to Water Detail	7.95	ft
GC-AP-MW-30	3/15/2021 12:11	Oxidation Reduction Potention	82.42	mv
GC-AP-MW-30	3/15/2021 12:11	pH	5.02	SU
GC-AP-MW-30	3/15/2021 12:11	Temperature	18.2	C
GC-AP-MW-30	3/15/2021 12:11	Turbidity	1.25	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-35H	3/16/2021 9:56	Conductivity	174.32	uS/cm
GC-AP-MW-35H	3/16/2021 9:56	DO	7.39	mg/L
GC-AP-MW-35H	3/16/2021 9:56	Depth to Water Detail	21.8	ft
GC-AP-MW-35H	3/16/2021 9:56	Oxidation Reduction Potention	100.96	mv
GC-AP-MW-35H	3/16/2021 9:56	pH	6.16	SU
GC-AP-MW-35H	3/16/2021 9:56	Temperature	18.88	C
GC-AP-MW-35H	3/16/2021 9:56	Turbidity	0.84	NTU
GC-AP-MW-35H	3/16/2021 10:01	Conductivity	172.84	uS/cm
GC-AP-MW-35H	3/16/2021 10:01	DO	7.46	mg/L
GC-AP-MW-35H	3/16/2021 10:01	Depth to Water Detail	21.8	ft
GC-AP-MW-35H	3/16/2021 10:01	Oxidation Reduction Potention	93.59	mv
GC-AP-MW-35H	3/16/2021 10:01	pH	6.15	SU
GC-AP-MW-35H	3/16/2021 10:01	Temperature	18.89	C
GC-AP-MW-35H	3/16/2021 10:01	Turbidity	0.15	NTU
GC-AP-MW-35H	3/16/2021 10:06	Conductivity	173.29	uS/cm
GC-AP-MW-35H	3/16/2021 10:06	DO	7.41	mg/L
GC-AP-MW-35H	3/16/2021 10:06	Depth to Water Detail	21.8	ft
GC-AP-MW-35H	3/16/2021 10:06	Oxidation Reduction Potention	86.18	mv
GC-AP-MW-35H	3/16/2021 10:06	pH	6.17	SU
GC-AP-MW-35H	3/16/2021 10:06	Temperature	18.93	C
GC-AP-MW-35H	3/16/2021 10:06	Turbidity	0.25	NTU
GC-AP-MW-35H	3/16/2021 10:11	Conductivity	173.02	uS/cm
GC-AP-MW-35H	3/16/2021 10:11	DO	7.44	mg/L
GC-AP-MW-35H	3/16/2021 10:11	Depth to Water Detail	21.8	ft
GC-AP-MW-35H	3/16/2021 10:11	Oxidation Reduction Potention	78.97	mv
GC-AP-MW-35H	3/16/2021 10:11	pH	6.16	SU
GC-AP-MW-35H	3/16/2021 10:11	Temperature	18.91	C
GC-AP-MW-35H	3/16/2021 10:11	Turbidity	0.37	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-37H	3/16/2021 11:01	Conductivity	1012.01	uS/cm
GC-AP-MW-37H	3/16/2021 11:01	DO	0.64	mg/L
GC-AP-MW-37H	3/16/2021 11:01	Depth to Water Detail	27.46	ft
GC-AP-MW-37H	3/16/2021 11:01	Oxidation Reduction Potention	51.55	mv
GC-AP-MW-37H	3/16/2021 11:01	pH	6.29	SU
GC-AP-MW-37H	3/16/2021 11:01	Temperature	18.88	C
GC-AP-MW-37H	3/16/2021 11:01	Turbidity	1.67	NTU
GC-AP-MW-37H	3/16/2021 11:05	Conductivity	1016.15	uS/cm
GC-AP-MW-37H	3/16/2021 11:05	DO	0.44	mg/L
GC-AP-MW-37H	3/16/2021 11:05	Depth to Water Detail	27.57	ft
GC-AP-MW-37H	3/16/2021 11:05	Oxidation Reduction Potention	39.91	mv
GC-AP-MW-37H	3/16/2021 11:05	pH	6.3	SU
GC-AP-MW-37H	3/16/2021 11:05	Temperature	18.96	C
GC-AP-MW-37H	3/16/2021 11:05	Turbidity	1.37	NTU
GC-AP-MW-37H	3/16/2021 11:10	Conductivity	1015.23	uS/cm
GC-AP-MW-37H	3/16/2021 11:10	DO	0.38	mg/L
GC-AP-MW-37H	3/16/2021 11:10	Depth to Water Detail	27.66	ft
GC-AP-MW-37H	3/16/2021 11:10	Oxidation Reduction Potention	31.25	mv
GC-AP-MW-37H	3/16/2021 11:10	pH	6.31	SU
GC-AP-MW-37H	3/16/2021 11:10	Temperature	18.98	C
GC-AP-MW-37H	3/16/2021 11:10	Turbidity	1.18	NTU
GC-AP-MW-37H	3/16/2021 11:14	Conductivity	1015.51	uS/cm
GC-AP-MW-37H	3/16/2021 11:14	DO	0.33	mg/L
GC-AP-MW-37H	3/16/2021 11:14	Depth to Water Detail	27.75	ft
GC-AP-MW-37H	3/16/2021 11:14	Oxidation Reduction Potention	24.81	mv
GC-AP-MW-37H	3/16/2021 11:14	pH	6.32	SU
GC-AP-MW-37H	3/16/2021 11:14	Temperature	19	C
GC-AP-MW-37H	3/16/2021 11:14	Turbidity	1.63	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-41H	3/15/2021 10:35	Conductivity	536.7	uS/cm
GC-AP-MW-41H	3/15/2021 10:35	DO	0.12	mg/L
GC-AP-MW-41H	3/15/2021 10:35	Depth to Water Detail	11.14	ft
GC-AP-MW-41H	3/15/2021 10:35	Oxidation Reduction Potention	-25.06	mv
GC-AP-MW-41H	3/15/2021 10:35	pH	6.42	SU
GC-AP-MW-41H	3/15/2021 10:35	Temperature	19.1	C
GC-AP-MW-41H	3/15/2021 10:35	Turbidity	17.9	NTU
GC-AP-MW-41H	3/15/2021 10:40	Conductivity	530.56	uS/cm
GC-AP-MW-41H	3/15/2021 10:40	DO	0.12	mg/L
GC-AP-MW-41H	3/15/2021 10:40	Depth to Water Detail	11.14	ft
GC-AP-MW-41H	3/15/2021 10:40	Oxidation Reduction Potention	-25.95	mv
GC-AP-MW-41H	3/15/2021 10:40	pH	6.43	SU
GC-AP-MW-41H	3/15/2021 10:40	Temperature	19.04	C
GC-AP-MW-41H	3/15/2021 10:40	Turbidity	10.24	NTU
GC-AP-MW-41H	3/15/2021 10:45	Conductivity	530.97	uS/cm
GC-AP-MW-41H	3/15/2021 10:45	DO	0.11	mg/L
GC-AP-MW-41H	3/15/2021 10:45	Depth to Water Detail	11.14	ft
GC-AP-MW-41H	3/15/2021 10:45	Oxidation Reduction Potention	-25.75	mv
GC-AP-MW-41H	3/15/2021 10:45	pH	6.44	SU
GC-AP-MW-41H	3/15/2021 10:45	Temperature	19.09	C
GC-AP-MW-41H	3/15/2021 10:45	Turbidity	8.86	NTU
GC-AP-MW-41H	3/15/2021 10:50	Conductivity	522.28	uS/cm
GC-AP-MW-41H	3/15/2021 10:50	DO	0.1	mg/L
GC-AP-MW-41H	3/15/2021 10:50	Depth to Water Detail	11.14	ft
GC-AP-MW-41H	3/15/2021 10:50	Oxidation Reduction Potention	-24.53	mv
GC-AP-MW-41H	3/15/2021 10:50	pH	6.43	SU
GC-AP-MW-41H	3/15/2021 10:50	Temperature	19.13	C
GC-AP-MW-41H	3/15/2021 10:50	Turbidity	8.32	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-46HO	3/8/2021 12:20	Conductivity	435.75	uS/cm
GC-AP-MW-46HO	3/8/2021 12:20	DO	0.14	mg/L
GC-AP-MW-46HO	3/8/2021 12:20	Depth to Water Detail	12.18	ft
GC-AP-MW-46HO	3/8/2021 12:20	Oxidation Reduction Potention	53.4	mv
GC-AP-MW-46HO	3/8/2021 12:20	pH	6.79	SU
GC-AP-MW-46HO	3/8/2021 12:20	Temperature	19.9	C
GC-AP-MW-46HO	3/8/2021 12:20	Turbidity	2.3	NTU
GC-AP-MW-46HO	3/8/2021 12:25	Conductivity	437.1	uS/cm
GC-AP-MW-46HO	3/8/2021 12:25	DO	0.12	mg/L
GC-AP-MW-46HO	3/8/2021 12:25	Depth to Water Detail	12.18	ft
GC-AP-MW-46HO	3/8/2021 12:25	Oxidation Reduction Potention	58.61	mv
GC-AP-MW-46HO	3/8/2021 12:25	pH	6.82	SU
GC-AP-MW-46HO	3/8/2021 12:25	Temperature	20	C
GC-AP-MW-46HO	3/8/2021 12:25	Turbidity	2.53	NTU
GC-AP-MW-46HO	3/8/2021 12:30	Conductivity	436.6	uS/cm
GC-AP-MW-46HO	3/8/2021 12:30	DO	0.1	mg/L
GC-AP-MW-46HO	3/8/2021 12:30	Depth to Water Detail	12.18	ft
GC-AP-MW-46HO	3/8/2021 12:30	Oxidation Reduction Potention	60.52	mv
GC-AP-MW-46HO	3/8/2021 12:30	pH	6.85	SU
GC-AP-MW-46HO	3/8/2021 12:30	Temperature	19.97	C
GC-AP-MW-46HO	3/8/2021 12:30	Turbidity	2.06	NTU
GC-AP-MW-46HO	3/8/2021 12:35	Conductivity	436.2	uS/cm
GC-AP-MW-46HO	3/8/2021 12:35	DO	0.09	mg/L
GC-AP-MW-46HO	3/8/2021 12:35	Depth to Water Detail	12.18	ft
GC-AP-MW-46HO	3/8/2021 12:35	Oxidation Reduction Potention	63.18	mv
GC-AP-MW-46HO	3/8/2021 12:35	pH	6.86	SU
GC-AP-MW-46HO	3/8/2021 12:35	Temperature	20.02	C
GC-AP-MW-46HO	3/8/2021 12:35	Turbidity	2	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-52HO	3/8/2021 12:45	Conductivity	918.25	uS/cm
GC-AP-MW-52HO	3/8/2021 12:45	DO	0.08	mg/L
GC-AP-MW-52HO	3/8/2021 12:45	Depth to Water Detail	6.56	ft
GC-AP-MW-52HO	3/8/2021 12:45	Oxidation Reduction Potention	26.38	mv
GC-AP-MW-52HO	3/8/2021 12:45	pH	5.73	SU
GC-AP-MW-52HO	3/8/2021 12:45	Temperature	17.87	C
GC-AP-MW-52HO	3/8/2021 12:45	Turbidity	3.88	NTU
GC-AP-MW-52HO	3/8/2021 12:50	Conductivity	893.36	uS/cm
GC-AP-MW-52HO	3/8/2021 12:50	DO	0.06	mg/L
GC-AP-MW-52HO	3/8/2021 12:50	Depth to Water Detail	6.56	ft
GC-AP-MW-52HO	3/8/2021 12:50	Oxidation Reduction Potention	22.67	mv
GC-AP-MW-52HO	3/8/2021 12:50	pH	5.8	SU
GC-AP-MW-52HO	3/8/2021 12:50	Temperature	17.99	C
GC-AP-MW-52HO	3/8/2021 12:50	Turbidity	3.16	NTU
GC-AP-MW-52HO	3/8/2021 12:55	Conductivity	869.67	uS/cm
GC-AP-MW-52HO	3/8/2021 12:55	DO	0.05	mg/L
GC-AP-MW-52HO	3/8/2021 12:55	Depth to Water Detail	6.56	ft
GC-AP-MW-52HO	3/8/2021 12:55	Oxidation Reduction Potention	18.19	mv
GC-AP-MW-52HO	3/8/2021 12:55	pH	5.93	SU
GC-AP-MW-52HO	3/8/2021 12:55	Temperature	18.06	C
GC-AP-MW-52HO	3/8/2021 12:55	Turbidity	2.2	NTU
GC-AP-MW-52HO	3/8/2021 13:00	Conductivity	858.73	uS/cm
GC-AP-MW-52HO	3/8/2021 13:00	DO	0.05	mg/L
GC-AP-MW-52HO	3/8/2021 13:00	Depth to Water Detail	6.56	ft
GC-AP-MW-52HO	3/8/2021 13:00	Oxidation Reduction Potention	16.48	mv
GC-AP-MW-52HO	3/8/2021 13:00	pH	5.98	SU
GC-AP-MW-52HO	3/8/2021 13:00	Temperature	18.03	C
GC-AP-MW-52HO	3/8/2021 13:00	Turbidity	1.61	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-47HO	3/8/2021 13:59	Conductivity	144.8	uS/cm
GC-AP-MW-47HO	3/8/2021 13:59	DO	0.23	mg/L
GC-AP-MW-47HO	3/8/2021 13:59	Depth to Water Detail	11.83	ft
GC-AP-MW-47HO	3/8/2021 13:59	Oxidation Reduction Potention	117.83	mv
GC-AP-MW-47HO	3/8/2021 13:59	pH	5.72	SU
GC-AP-MW-47HO	3/8/2021 13:59	Temperature	18.73	C
GC-AP-MW-47HO	3/8/2021 13:59	Turbidity	1.7	NTU
GC-AP-MW-47HO	3/8/2021 14:04	Conductivity	141.41	uS/cm
GC-AP-MW-47HO	3/8/2021 14:04	DO	0.18	mg/L
GC-AP-MW-47HO	3/8/2021 14:04	Depth to Water Detail	11.83	ft
GC-AP-MW-47HO	3/8/2021 14:04	Oxidation Reduction Potention	131.94	mv
GC-AP-MW-47HO	3/8/2021 14:04	pH	5.69	SU
GC-AP-MW-47HO	3/8/2021 14:04	Temperature	18.68	C
GC-AP-MW-47HO	3/8/2021 14:04	Turbidity	1.28	NTU
GC-AP-MW-47HO	3/8/2021 14:09	Conductivity	142.9	uS/cm
GC-AP-MW-47HO	3/8/2021 14:09	DO	0.16	mg/L
GC-AP-MW-47HO	3/8/2021 14:09	Depth to Water Detail	11.83	ft
GC-AP-MW-47HO	3/8/2021 14:09	Oxidation Reduction Potention	143.02	mv
GC-AP-MW-47HO	3/8/2021 14:09	pH	5.71	SU
GC-AP-MW-47HO	3/8/2021 14:09	Temperature	18.76	C
GC-AP-MW-47HO	3/8/2021 14:09	Turbidity	1.33	NTU
GC-AP-MW-47HO	3/8/2021 14:14	Conductivity	142.6	uS/cm
GC-AP-MW-47HO	3/8/2021 14:14	DO	0.15	mg/L
GC-AP-MW-47HO	3/8/2021 14:14	Depth to Water Detail	11.83	ft
GC-AP-MW-47HO	3/8/2021 14:14	Oxidation Reduction Potention	151.94	mv
GC-AP-MW-47HO	3/8/2021 14:14	pH	5.74	SU
GC-AP-MW-47HO	3/8/2021 14:14	Temperature	18.77	C
GC-AP-MW-47HO	3/8/2021 14:14	Turbidity	1.19	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	3/8/2021 15:03	Conductivity	342.4	uS/cm
GC-AP-MW-50HO	3/8/2021 15:03	DO	0.26	mg/L
GC-AP-MW-50HO	3/8/2021 15:03	Depth to Water Detail	7.44	ft
GC-AP-MW-50HO	3/8/2021 15:03	Oxidation Reduction Potention	101.6	mv
GC-AP-MW-50HO	3/8/2021 15:03	pH	6.32	SU
GC-AP-MW-50HO	3/8/2021 15:03	Temperature	17.78	C
GC-AP-MW-50HO	3/8/2021 15:03	Turbidity	2.87	NTU
GC-AP-MW-50HO	3/8/2021 15:08	Conductivity	341.86	uS/cm
GC-AP-MW-50HO	3/8/2021 15:08	DO	0.16	mg/L
GC-AP-MW-50HO	3/8/2021 15:08	Depth to Water Detail	7.44	ft
GC-AP-MW-50HO	3/8/2021 15:08	Oxidation Reduction Potention	105.52	mv
GC-AP-MW-50HO	3/8/2021 15:08	pH	6.32	SU
GC-AP-MW-50HO	3/8/2021 15:08	Temperature	17.7	C
GC-AP-MW-50HO	3/8/2021 15:08	Turbidity	3.63	NTU
GC-AP-MW-50HO	3/8/2021 15:13	Conductivity	341.89	uS/cm
GC-AP-MW-50HO	3/8/2021 15:13	DO	0.14	mg/L
GC-AP-MW-50HO	3/8/2021 15:13	Depth to Water Detail	7.44	ft
GC-AP-MW-50HO	3/8/2021 15:13	Oxidation Reduction Potention	106.95	mv
GC-AP-MW-50HO	3/8/2021 15:13	pH	6.34	SU
GC-AP-MW-50HO	3/8/2021 15:13	Temperature	17.84	C
GC-AP-MW-50HO	3/8/2021 15:13	Turbidity	3.33	NTU
GC-AP-MW-50HO	3/8/2021 15:18	Conductivity	341.75	uS/cm
GC-AP-MW-50HO	3/8/2021 15:18	DO	0.15	mg/L
GC-AP-MW-50HO	3/8/2021 15:18	Depth to Water Detail	7.44	ft
GC-AP-MW-50HO	3/8/2021 15:18	Oxidation Reduction Potention	107.04	mv
GC-AP-MW-50HO	3/8/2021 15:18	pH	6.36	SU
GC-AP-MW-50HO	3/8/2021 15:18	Temperature	17.83	C
GC-AP-MW-50HO	3/8/2021 15:18	Turbidity	3.31	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-55HO	3/9/2021 8:39	Conductivity	61.1	uS/cm
GC-AP-MW-55HO	3/9/2021 8:39	DO	5.55	mg/L
GC-AP-MW-55HO	3/9/2021 8:39	Depth to Water Detail	35.83	ft
GC-AP-MW-55HO	3/9/2021 8:39	Oxidation Reduction Potention	191.27	mv
GC-AP-MW-55HO	3/9/2021 8:39	pH	5.15	SU
GC-AP-MW-55HO	3/9/2021 8:39	Temperature	18.28	C
GC-AP-MW-55HO	3/9/2021 8:39	Turbidity	88.1	NTU
GC-AP-MW-55HO	3/9/2021 8:44	Conductivity	59.82	uS/cm
GC-AP-MW-55HO	3/9/2021 8:44	DO	5.56	mg/L
GC-AP-MW-55HO	3/9/2021 8:44	Depth to Water Detail	35.83	ft
GC-AP-MW-55HO	3/9/2021 8:44	Oxidation Reduction Potention	208.09	mv
GC-AP-MW-55HO	3/9/2021 8:44	pH	5.18	SU
GC-AP-MW-55HO	3/9/2021 8:44	Temperature	18.37	C
GC-AP-MW-55HO	3/9/2021 8:44	Turbidity	44.1	NTU
GC-AP-MW-55HO	3/9/2021 8:49	Conductivity	65.57	uS/cm
GC-AP-MW-55HO	3/9/2021 8:49	DO	5.5	mg/L
GC-AP-MW-55HO	3/9/2021 8:49	Depth to Water Detail	35.83	ft
GC-AP-MW-55HO	3/9/2021 8:49	Oxidation Reduction Potention	221.09	mv
GC-AP-MW-55HO	3/9/2021 8:49	pH	5.06	SU
GC-AP-MW-55HO	3/9/2021 8:49	Temperature	18.38	C
GC-AP-MW-55HO	3/9/2021 8:49	Turbidity	22.4	NTU
GC-AP-MW-55HO	3/9/2021 8:54	Conductivity	64.59	uS/cm
GC-AP-MW-55HO	3/9/2021 8:54	DO	5.46	mg/L
GC-AP-MW-55HO	3/9/2021 8:54	Depth to Water Detail	35.83	ft
GC-AP-MW-55HO	3/9/2021 8:54	Oxidation Reduction Potention	215.14	mv
GC-AP-MW-55HO	3/9/2021 8:54	pH	5.22	SU
GC-AP-MW-55HO	3/9/2021 8:54	Temperature	18.35	C
GC-AP-MW-55HO	3/9/2021 8:54	Turbidity	11	NTU
GC-AP-MW-55HO	3/9/2021 8:59	Conductivity	66.4	uS/cm
GC-AP-MW-55HO	3/9/2021 8:59	DO	5.44	mg/L
GC-AP-MW-55HO	3/9/2021 8:59	Depth to Water Detail	35.83	ft
GC-AP-MW-55HO	3/9/2021 8:59	Oxidation Reduction Potention	218.13	mv
GC-AP-MW-55HO	3/9/2021 8:59	pH	5.28	SU
GC-AP-MW-55HO	3/9/2021 8:59	Temperature	18.4	C
GC-AP-MW-55HO	3/9/2021 8:59	Turbidity	7.45	NTU
GC-AP-MW-55HO	3/9/2021 9:04	Conductivity	66.84	uS/cm
GC-AP-MW-55HO	3/9/2021 9:04	DO	5.37	mg/L
GC-AP-MW-55HO	3/9/2021 9:04	Depth to Water Detail	35.83	ft
GC-AP-MW-55HO	3/9/2021 9:04	Oxidation Reduction Potention	220.01	mv
GC-AP-MW-55HO	3/9/2021 9:04	pH	5.3	SU
GC-AP-MW-55HO	3/9/2021 9:04	Temperature	18.44	C
GC-AP-MW-55HO	3/9/2021 9:04	Turbidity	5.69	NTU
GC-AP-MW-55HO	3/9/2021 9:09	Conductivity	67.04	uS/cm
GC-AP-MW-55HO	3/9/2021 9:09	DO	5.44	mg/L

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-55HO	3/9/2021 9:09	Depth to Water Detail	35.83	ft
GC-AP-MW-55HO	3/9/2021 9:09	Oxidation Reduction Potention	231.87	mv
GC-AP-MW-55HO	3/9/2021 9:09	pH	5.13	SU
GC-AP-MW-55HO	3/9/2021 9:09	Temperature	18.42	C
GC-AP-MW-55HO	3/9/2021 9:09	Turbidity	3.54	NTU

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-59HO	3/9/2021 10:27	Conductivity	449.62	uS/cm
GC-AP-MW-59HO	3/9/2021 10:27	DO	0.09	mg/L
GC-AP-MW-59HO	3/9/2021 10:27	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 10:27	Oxidation Reduction Potention	126.48	mv
GC-AP-MW-59HO	3/9/2021 10:27	pH	5.61	SU
GC-AP-MW-59HO	3/9/2021 10:27	Temperature	16.82	C
GC-AP-MW-59HO	3/9/2021 10:27	Turbidity	85.3	NTU
GC-AP-MW-59HO	3/9/2021 10:32	Conductivity	471.11	uS/cm
GC-AP-MW-59HO	3/9/2021 10:32	DO	0.06	mg/L
GC-AP-MW-59HO	3/9/2021 10:32	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 10:32	Oxidation Reduction Potention	97.55	mv
GC-AP-MW-59HO	3/9/2021 10:32	pH	5.73	SU
GC-AP-MW-59HO	3/9/2021 10:32	Temperature	16.97	C
GC-AP-MW-59HO	3/9/2021 10:32	Turbidity	34.3	NTU
GC-AP-MW-59HO	3/9/2021 10:37	Conductivity	501.99	uS/cm
GC-AP-MW-59HO	3/9/2021 10:37	DO	0.05	mg/L
GC-AP-MW-59HO	3/9/2021 10:37	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 10:37	Oxidation Reduction Potention	83.32	mv
GC-AP-MW-59HO	3/9/2021 10:37	pH	5.79	SU
GC-AP-MW-59HO	3/9/2021 10:37	Temperature	16.98	C
GC-AP-MW-59HO	3/9/2021 10:37	Turbidity	27.1	NTU
GC-AP-MW-59HO	3/9/2021 10:42	Conductivity	524.36	uS/cm
GC-AP-MW-59HO	3/9/2021 10:42	DO	0.04	mg/L
GC-AP-MW-59HO	3/9/2021 10:42	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 10:42	Oxidation Reduction Potention	81.75	mv
GC-AP-MW-59HO	3/9/2021 10:42	pH	5.82	SU
GC-AP-MW-59HO	3/9/2021 10:42	Temperature	16.94	C
GC-AP-MW-59HO	3/9/2021 10:42	Turbidity	18.1	NTU
GC-AP-MW-59HO	3/9/2021 10:47	Conductivity	481.85	uS/cm
GC-AP-MW-59HO	3/9/2021 10:47	DO	0.04	mg/L
GC-AP-MW-59HO	3/9/2021 10:47	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 10:47	Oxidation Reduction Potention	84.15	mv
GC-AP-MW-59HO	3/9/2021 10:47	pH	5.85	SU
GC-AP-MW-59HO	3/9/2021 10:47	Temperature	17.04	C
GC-AP-MW-59HO	3/9/2021 10:47	Turbidity	14.8	NTU
GC-AP-MW-59HO	3/9/2021 10:52	Conductivity	483.18	uS/cm
GC-AP-MW-59HO	3/9/2021 10:52	DO	0.04	mg/L
GC-AP-MW-59HO	3/9/2021 10:52	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 10:52	Oxidation Reduction Potention	86.63	mv
GC-AP-MW-59HO	3/9/2021 10:52	pH	5.87	SU
GC-AP-MW-59HO	3/9/2021 10:52	Temperature	17.07	C
GC-AP-MW-59HO	3/9/2021 10:52	Turbidity	10.89	NTU
GC-AP-MW-59HO	3/9/2021 10:57	Conductivity	494.83	uS/cm
GC-AP-MW-59HO	3/9/2021 10:57	DO	0.04	mg/L

**Alabama Power Company
Plant Greene County Ash Pond**

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-59HO	3/9/2021 10:57	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 10:57	Oxidation Reduction Potention	89.18	mv
GC-AP-MW-59HO	3/9/2021 10:57	pH	5.89	SU
GC-AP-MW-59HO	3/9/2021 10:57	Temperature	17.09	C
GC-AP-MW-59HO	3/9/2021 10:57	Turbidity	10.69	NTU
GC-AP-MW-59HO	3/9/2021 11:02	Conductivity	523.2	uS/cm
GC-AP-MW-59HO	3/9/2021 11:02	DO	0.04	mg/L
GC-AP-MW-59HO	3/9/2021 11:02	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 11:02	Oxidation Reduction Potention	90.8	mv
GC-AP-MW-59HO	3/9/2021 11:02	pH	5.91	SU
GC-AP-MW-59HO	3/9/2021 11:02	Temperature	17.13	C
GC-AP-MW-59HO	3/9/2021 11:02	Turbidity	8.34	NTU
GC-AP-MW-59HO	3/9/2021 11:07	Conductivity	489.51	uS/cm
GC-AP-MW-59HO	3/9/2021 11:07	DO	0.04	mg/L
GC-AP-MW-59HO	3/9/2021 11:07	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 11:07	Oxidation Reduction Potention	92.45	mv
GC-AP-MW-59HO	3/9/2021 11:07	pH	5.92	SU
GC-AP-MW-59HO	3/9/2021 11:07	Temperature	17.11	C
GC-AP-MW-59HO	3/9/2021 11:07	Turbidity	8.19	NTU
GC-AP-MW-59HO	3/9/2021 11:12	Conductivity	493.95	uS/cm
GC-AP-MW-59HO	3/9/2021 11:12	DO	0.03	mg/L
GC-AP-MW-59HO	3/9/2021 11:12	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 11:12	Oxidation Reduction Potention	94	mv
GC-AP-MW-59HO	3/9/2021 11:12	pH	5.93	SU
GC-AP-MW-59HO	3/9/2021 11:12	Temperature	17.14	C
GC-AP-MW-59HO	3/9/2021 11:12	Turbidity	7.2	NTU
GC-AP-MW-59HO	3/9/2021 11:17	Conductivity	495.6	uS/cm
GC-AP-MW-59HO	3/9/2021 11:17	DO	0.04	mg/L
GC-AP-MW-59HO	3/9/2021 11:17	Depth to Water Detail	9.94	ft
GC-AP-MW-59HO	3/9/2021 11:17	Oxidation Reduction Potention	95.16	mv
GC-AP-MW-59HO	3/9/2021 11:17	pH	5.94	SU
GC-AP-MW-59HO	3/9/2021 11:17	Temperature	17.2	C
GC-AP-MW-59HO	3/9/2021 11:17	Turbidity	6.66	NTU

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



Greene County Ash Pond

2021 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).

All pH field readings for wells MW-28 and MW-29 were qualified due to pH readings falling outside of the bracketed calibration range. 2 pH field readings for well MW-30 were also qualified for the same reason. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Due to low yield, well MW-37H was sampled using the Minimal Purge Method, defined in the SAP.

Suspected iron bacteria was present during initial pumping of well MW-10.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification 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
205-664-6001

Analytical Report



Sample Group : WMWGREAP_1337

Project/Site : Greene County Ash Pond
Demopolis, AL 36732

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

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

September 30, 2021

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between August 18, 2021 and August 26, 2021. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

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

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

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2021.10.04 13:25:31 -05'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2021.10.04 14:41:00 -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

Greene County Ash Pond

WMWGREAP_1337

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>
BB15376	706617	WMWGREAP_1337
BB15377	706617	WMWGREAP_1337
BB15378	706617	WMWGREAP_1337
BB15379	706617	WMWGREAP_1337
BB15380	706617	WMWGREAP_1337
BB15381	706617	WMWGREAP_1337
BB15382	706617	WMWGREAP_1337
BB15383	706617	WMWGREAP_1337
BB15486	706617	WMWGREAP_1337
BB15487	706617	WMWGREAP_1337
BB15488	706618	WMWGREAP_1337
BB15489	706618	WMWGREAP_1337
BB15490	706618	WMWGREAP_1337
BB15491	706618	WMWGREAP_1337
BB15492	706618	WMWGREAP_1337
BB15493	706618	WMWGREAP_1337
BB15494	706618	WMWGREAP_1337
BB15495	706618	WMWGREAP_1337
BB15496	706618	WMWGREAP_1337
BB15497	706618	WMWGREAP_1337
BB15498	706619	WMWGREAP_1337
BB15775	706619	WMWGREAP_1337
BB15776	706619	WMWGREAP_1337
BB15777	706619	WMWGREAP_1337
BB15778	706619	WMWGREAP_1337
BB15779	706619	WMWGREAP_1337
BB15780	706619	WMWGREAP_1337
BB15781	706619	WMWGREAP_1337
BB15782	706619	WMWGREAP_1337
BB15783	706619	WMWGREAP_1337
BB15784	706620	WMWGREAP_1337

BB15785	706620	WMWGREAP_1337
BB15786	706620	WMWGREAP_1337
BB15787	706620	WMWGREAP_1337
BB15788	706620	WMWGREAP_1337
BB15789	706620	WMWGREAP_1337
BB15790	706620	WMWGREAP_1337
BB15791	706620	WMWGREAP_1337
BB15792	706620	WMWGREAP_1337
BB16075	706950	WMWGREAP_1337
BB16076	706950	WMWGREAP_1337
BB16077	706950	WMWGREAP_1337
BB16078	706950	WMWGREAP_1337
BB16079	706950	WMWGREAP_1337
BB16080	706950	WMWGREAP_1337
BB16081	706950	WMWGREAP_1337
BB16082	706950	WMWGREAP_1337
BB16083	706950	WMWGREAP_1337
BB16084	706950	WMWGREAP_1337
BB16085	706951	WMWGREAP_1337
BB16086	706951	WMWGREAP_1337
BB16087	706951	WMWGREAP_1337
BB16088	706951	WMWGREAP_1337
BB16089	706951	WMWGREAP_1337
BB16090	706951	WMWGREAP_1337
BB16091	706951	WMWGREAP_1337
BB16092	706951	WMWGREAP_1337
BB16093	706951	WMWGREAP_1337

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 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.
- 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:
 - BB15783 Calcium and Sodium MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB15376	Calcium, Sodium	50.75
BB15376	Iron	101.5
BB15377	Calcium, Iron	20.3
BB15378	Calcium, Iron	20.3
BB15379	Calcium, Iron	20.3
BB15381	Calcium, Iron	20.3
BB15382	Calcium, Iron, Sodium	20.3
BB15383	Calcium, Iron, Sodium	20.3
BB15486	Calcium, Iron, Sodium	20.3
BB15488	Calcium, Iron	20.3
BB15492	Calcium, Magnesium	20.3
BB15780	Calcium, Iron	20.3
BB15782	Calcium, Sodium	101.5
BB15783	Calcium, Sodium	101.5
BB15784	Calcium, Iron	20.3
BB15785	Calcium, Iron	20.3
BB15786	Calcium, Iron	20.3
BB15787	Calcium, Iron	20.3
BB16075	Calcium, Sodium	10.15
BB16077	Calcium, Iron	10.15
BB16078	Calcium, Iron, Sodium	10.15
BB16080	Calcium	10.15
BB16082	Calcium	10.15
BB16083	Calcium	10.15
BB16084	Sodium	10.15
BB16085	Calcium, Iron	101.5
BB16086	Calcium	10.15
BB16087	Calcium, Iron	10.15
BB16088	Calcium	10.15
BB16089	Calcium	10.15
BB16090	Calcium	10.15
BB16091	Calcium, Iron	101.5
BB16092	Calcium, Iron	10.15

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

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1337

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>
BB15376	706713	WMWGREAP_1337
BB15377	706713	WMWGREAP_1337
BB15378	706713	WMWGREAP_1337
BB15379	706713	WMWGREAP_1337
BB15381	706713	WMWGREAP_1337
BB15382	706713	WMWGREAP_1337
BB15383	706713	WMWGREAP_1337
BB15486	706713	WMWGREAP_1337
BB15487	706713	WMWGREAP_1337
BB15488	706713	WMWGREAP_1337
BB15490	706714	WMWGREAP_1337
BB15491	706714	WMWGREAP_1337
BB15492	706714	WMWGREAP_1337
BB15493	706714	WMWGREAP_1337
BB15494	706714	WMWGREAP_1337
BB15495	706714	WMWGREAP_1337
BB15496	706714	WMWGREAP_1337
BB15497	706714	WMWGREAP_1337
BB15775	706714	WMWGREAP_1337
BB15776	706714	WMWGREAP_1337
BB15777	706715	WMWGREAP_1337
BB15778	706715	WMWGREAP_1337
BB15779	706715	WMWGREAP_1337
BB15780	706715	WMWGREAP_1337
BB15781	706715	WMWGREAP_1337
BB15782	706715	WMWGREAP_1337
BB15783	706715	WMWGREAP_1337
BB15784	706715	WMWGREAP_1337
BB15785	706715	WMWGREAP_1337
BB15786	706715	WMWGREAP_1337
BB15787	706716	WMWGREAP_1337

BB15789	706716	WMWGREAP_1337
BB15790	706716	WMWGREAP_1337
BB15791	706716	WMWGREAP_1337
BB15792	706716	WMWGREAP_1337
BB16075	706716	WMWGREAP_1337
BB16076	706716	WMWGREAP_1337
BB16077	706716	WMWGREAP_1337
BB16078	706716	WMWGREAP_1337
BB16080	706716	WMWGREAP_1337
BB16081	706722	WMWGREAP_1337
BB16082	706722	WMWGREAP_1337
BB16083	706722	WMWGREAP_1337
BB16084	706722	WMWGREAP_1337
BB16085	706722	WMWGREAP_1337
BB16086	706722	WMWGREAP_1337
BB16087	706722	WMWGREAP_1337
BB16088	706722	WMWGREAP_1337
BB16089	706722	WMWGREAP_1337
BB16090	706722	WMWGREAP_1337
BB16091	706723	WMWGREAP_1337
BB16092	706723	WMWGREAP_1337

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 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 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:
 - BB15488 Iron MS/MSD spike level was <30% of the sample concentration.
 - BB15786 Iron MS/MSD spike level was <30% of the sample concentration.
 - BB16080 Iron MS/MSD spike level was <30% of the sample concentration.
- 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>
BB15376	Iron	101.5
BB15377	Iron	101.5
BB15378	Iron	101.5
BB15379	Iron	101.5
BB15381	Iron	101.5
BB15382	Iron	101.5
BB15383	Iron	101.5
BB15486	Iron	101.5
BB15488	Iron	101.5
BB15780	Iron	101.5
BB15784	Iron	10.15
BB15785	Iron	101.5
BB15786	Iron	101.5
BB15787	Iron	101.5
BB16077	Iron	101.5
BB16078	Iron	101.5
BB16085	Iron	101.5
BB16087	Iron	101.5
BB16091	Iron	101.5
BB16092	Iron	10.15

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

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1337

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>
BB15376	705862	WMWGREAP_1337
BB15377	705862	WMWGREAP_1337
BB15378	705862	WMWGREAP_1337
BB15379	705862	WMWGREAP_1337
BB15380	705862	WMWGREAP_1337
BB15381	705862	WMWGREAP_1337
BB15382	705862	WMWGREAP_1337
BB15383	705862	WMWGREAP_1337
BB15486	705862	WMWGREAP_1337
BB15487	705862	WMWGREAP_1337
BB15488	705863	WMWGREAP_1337
BB15489	705863	WMWGREAP_1337
BB15490	705863	WMWGREAP_1337
BB15491	705863	WMWGREAP_1337
BB15492	705863	WMWGREAP_1337
BB15493	705863	WMWGREAP_1337
BB15494	705863	WMWGREAP_1337
BB15495	705863	WMWGREAP_1337
BB15496	705863	WMWGREAP_1337
BB15497	705863	WMWGREAP_1337
BB15498	705864	WMWGREAP_1337
BB15775	707054	WMWGREAP_1337
BB15776	707054	WMWGREAP_1337
BB15777	707054	WMWGREAP_1337
BB15778	707054	WMWGREAP_1337
BB15779	707054	WMWGREAP_1337
BB15780	707054	WMWGREAP_1337
BB15781	707054	WMWGREAP_1337
BB15782	707054	WMWGREAP_1337
BB15783	707054	WMWGREAP_1337
BB15784	707054	WMWGREAP_1337

BB15785	707055	WMWGREAP_1337
BB15786	707055	WMWGREAP_1337
BB15787	707055	WMWGREAP_1337
BB15788	707055	WMWGREAP_1337
BB15789	707055	WMWGREAP_1337
BB15790	707055	WMWGREAP_1337
BB15791	707055	WMWGREAP_1337
BB15792	707055	WMWGREAP_1337
BB16075	707055	WMWGREAP_1337
BB16076	707055	WMWGREAP_1337
BB16077	707056	WMWGREAP_1337
BB16078	707056	WMWGREAP_1337
BB16079	707056	WMWGREAP_1337
BB16080	707056	WMWGREAP_1337
BB16081	707056	WMWGREAP_1337
BB16082	707056	WMWGREAP_1337
BB16083	707056	WMWGREAP_1337
BB16084	707056	WMWGREAP_1337
BB16085	707056	WMWGREAP_1337
BB16086	707056	WMWGREAP_1337
BB16087	707057	WMWGREAP_1337
BB16088	707057	WMWGREAP_1337
BB16089	707057	WMWGREAP_1337
BB16090	707057	WMWGREAP_1337
BB16091	707057	WMWGREAP_1337
BB16092	707057	WMWGREAP_1337
BB16093	707057	WMWGREAP_1337

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

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

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

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BB15487 Manganese MS/MSD spike levels were <30% of the sample concentration.
 - BB15784 Manganese MS/MSD spike levels were <30% of the sample concentration.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

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

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BB15376	Manganese	92.365
BB15377	Manganese	5.075
BB15379	Manganese	10.15
BB15381	Manganese	5.075
BB15382	Manganese	5.075
BB15383	Manganese	5.075
BB15486	Manganese	10.15
BB15487	Manganese	5.075
BB15488	Manganese	10.15
BB15492	Manganese	10.15
BB15780	Manganese	5.075
BB15782	Manganese	5.075
BB15784	Manganese	10.15
BB15785	Manganese	5.075
BB15786	Manganese	5.075
BB15787	Manganese	5.075
BB16075	Manganese	5.075
BB16077	Manganese	5.075
BB16078	Manganese	10.15
BB16080	Manganese	10.15
BB16082	Manganese	5.075
BB16085	Manganese	5.075
BB16087	Manganese	5.075
BB16088	Manganese	5.075
BB16089	Manganese	5.075
BB16090	Manganese	5.075
BB16091	Manganese	10.15
BB16092	Manganese	5.075

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

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1337

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>
BB15376	705953	WMWGREAP_1337
BB15377	705953	WMWGREAP_1337
BB15378	705953	WMWGREAP_1337
BB15379	705953	WMWGREAP_1337
BB15381	705953	WMWGREAP_1337
BB15382	705953	WMWGREAP_1337
BB15383	705953	WMWGREAP_1337
BB15486	705953	WMWGREAP_1337
BB15487	705953	WMWGREAP_1337
BB15488	705953	WMWGREAP_1337
BB15490	705954	WMWGREAP_1337
BB15491	705954	WMWGREAP_1337
BB15492	705954	WMWGREAP_1337
BB15493	705954	WMWGREAP_1337
BB15494	705954	WMWGREAP_1337
BB15495	705954	WMWGREAP_1337
BB15496	705954	WMWGREAP_1337
BB15497	705954	WMWGREAP_1337
BB15775	706387	WMWGREAP_1337
BB15776	706387	WMWGREAP_1337
BB15777	706387	WMWGREAP_1337
BB15778	706387	WMWGREAP_1337
BB15779	706387	WMWGREAP_1337
BB15780	706387	WMWGREAP_1337
BB15781	706387	WMWGREAP_1337
BB15782	706387	WMWGREAP_1337
BB15783	706387	WMWGREAP_1337
BB15784	706387	WMWGREAP_1337
BB15785	706388	WMWGREAP_1337
BB15786	706388	WMWGREAP_1337
BB15787	706388	WMWGREAP_1337

BB15789	706388	WMWGREAP_1337
BB15790	706388	WMWGREAP_1337
BB15791	706388	WMWGREAP_1337
BB15792	706388	WMWGREAP_1337
BB16075	706998	WMWGREAP_1337
BB16076	706998	WMWGREAP_1337
BB16077	706998	WMWGREAP_1337
BB16078	706998	WMWGREAP_1337
BB16080	706998	WMWGREAP_1337
BB16081	706998	WMWGREAP_1337
BB16082	706998	WMWGREAP_1337
BB16083	706998	WMWGREAP_1337
BB16084	706998	WMWGREAP_1337
BB16085	706998	WMWGREAP_1337
BB16086	706999	WMWGREAP_1337
BB16087	706999	WMWGREAP_1337
BB16088	706999	WMWGREAP_1337
BB16089	706999	WMWGREAP_1337
BB16090	706999	WMWGREAP_1337
BB16091	706999	WMWGREAP_1337
BB16092	706999	WMWGREAP_1337

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:
 - BB15488 Manganese MS/MSD spike levels were <30% of the sample concentrations.
 - BB15784 Manganese MS/MSD spike levels were <30% of the sample concentrations.
 - BB16085 Manganese MS/MSD spike levels were <30% of the sample concentrations.
 - BB16092 Manganese MS/MSD spike levels were <30% of the sample concentrations.
- 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>
BB15376	Manganese	92.365
BB15377	Manganese	5.075
BB15379	Manganese	10.15
BB15381	Manganese	5.075
BB15382	Manganese	5.075
BB15383	Manganese	5.075
BB15486	Manganese	10.15
BB15487	Manganese	5.075
BB15488	Manganese	10.15
BB15492	Manganese	10.15
BB15780	Manganese	5.075
BB15782	Manganese	5.075
BB15784	Manganese	10.15
BB15785	Manganese	5.075
BB15786	Manganese	5.075
BB15787	Manganese	5.075
BB16075	Manganese	5.075
BB16077	Manganese	5.075
BB16078	Manganese	10.15
BB16080	Manganese	10.15
BB16082	Manganese	5.075
BB16085	Manganese	5.075
BB16087	Manganese	5.075
BB16088	Manganese	5.075
BB16089	Manganese	5.075
BB16090	Manganese	5.075
BB16091	Manganese	10.15
BB16092	Manganese	5.075

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

Mercury

Greene County Ash Pond

WMWGREAP_1337

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>
BB15376	705504	WMWGREAP_1337
BB15377	705504	WMWGREAP_1337
BB15378	705504	WMWGREAP_1337
BB15379	705504	WMWGREAP_1337
BB15380	705504	WMWGREAP_1337
BB15381	705504	WMWGREAP_1337
BB15382	705504	WMWGREAP_1337
BB15383	705504	WMWGREAP_1337
BB15486	706118	WMWGREAP_1337
BB15487	706118	WMWGREAP_1337
BB15488	706118	WMWGREAP_1337
BB15489	706118	WMWGREAP_1337
BB15490	706118	WMWGREAP_1337
BB15491	706118	WMWGREAP_1337
BB15492	706118	WMWGREAP_1337
BB15493	706118	WMWGREAP_1337
BB15494	706118	WMWGREAP_1337
BB15495	706118	WMWGREAP_1337
BB15496	706119	WMWGREAP_1337
BB15497	706119	WMWGREAP_1337
BB15498	706119	WMWGREAP_1337
BB15775	706119	WMWGREAP_1337
BB15776	706119	WMWGREAP_1337
BB15777	706119	WMWGREAP_1337
BB15778	706119	WMWGREAP_1337
BB15779	706119	WMWGREAP_1337
BB15780	706119	WMWGREAP_1337
BB15781	706119	WMWGREAP_1337
BB15782	706120	WMWGREAP_1337
BB15783	706120	WMWGREAP_1337
BB15784	706120	WMWGREAP_1337

BB15785	706120	WMWGREAP_1337
BB15786	706120	WMWGREAP_1337
BB15787	706120	WMWGREAP_1337
BB15788	706120	WMWGREAP_1337
BB15789	706120	WMWGREAP_1337
BB15790	706120	WMWGREAP_1337
BB15791	706120	WMWGREAP_1337
BB15792	706351	WMWGREAP_1337
BB16075	706351	WMWGREAP_1337
BB16076	706351	WMWGREAP_1337
BB16077	706351	WMWGREAP_1337
BB16078	706351	WMWGREAP_1337
BB16079	706351	WMWGREAP_1337
BB16080	706351	WMWGREAP_1337
BB16081	706351	WMWGREAP_1337
BB16082	706351	WMWGREAP_1337
BB16083	706351	WMWGREAP_1337
BB16084	706623	WMWGREAP_1337
BB16085	706623	WMWGREAP_1337
BB16086	706623	WMWGREAP_1337
BB16087	706623	WMWGREAP_1337
BB16088	706623	WMWGREAP_1337
BB16089	706623	WMWGREAP_1337
BB16090	706623	WMWGREAP_1337
BB16091	706623	WMWGREAP_1337
BB16092	706623	WMWGREAP_1337
BB16093	706623	WMWGREAP_1337

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 batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.
 8. The raw data results are shown with dilution factors included.

TDS

Greene County Ash Pond

WMWGREAP_1337

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>
BB15376	706059	WMWGREAP_1337
BB15377	706059	WMWGREAP_1337
BB15378	706059	WMWGREAP_1337
BB15379	706059	WMWGREAP_1337
BB15380	706059	WMWGREAP_1337
BB15381	706059	WMWGREAP_1337
BB15382	706059	WMWGREAP_1337
BB15383	706059	WMWGREAP_1337
BB15486	706059	WMWGREAP_1337
BB15487	706128	WMWGREAP_1337
BB15488	706128	WMWGREAP_1337
BB15489	706128	WMWGREAP_1337
BB15490	706128	WMWGREAP_1337
BB15491	706129	WMWGREAP_1337
BB15492	706128	WMWGREAP_1337
BB15493	706059	WMWGREAP_1337
BB15494	706128	WMWGREAP_1337
BB15495	706128	WMWGREAP_1337
BB15496	706128	WMWGREAP_1337
BB15497	706128	WMWGREAP_1337
BB15498	706128	WMWGREAP_1337
BB15775	706359	WMWGREAP_1337
BB15776	706359	WMWGREAP_1337
BB15777	706359	WMWGREAP_1337
BB15778	706359	WMWGREAP_1337
BB15779	706359	WMWGREAP_1337
BB15780	706359	WMWGREAP_1337
BB15781	706359	WMWGREAP_1337
BB15782	706359	WMWGREAP_1337
BB15783	706359	WMWGREAP_1337
BB15784	706359	WMWGREAP_1337

BB15785	706360	WMWGREAP_1337
BB15786	706360	WMWGREAP_1337
BB15787	706360	WMWGREAP_1337
BB15788	706360	WMWGREAP_1337
BB15789	706360	WMWGREAP_1337
BB15790	706360	WMWGREAP_1337
BB15791	706360	WMWGREAP_1337
BB15792	706360	WMWGREAP_1337
BB16075	706360	WMWGREAP_1337
BB16076	706536	WMWGREAP_1337
BB16077	706536	WMWGREAP_1337
BB16078	706536	WMWGREAP_1337
BB16079	706536	WMWGREAP_1337
BB16080	706536	WMWGREAP_1337
BB16081	706536	WMWGREAP_1337
BB16082	706536	WMWGREAP_1337
BB16083	706536	WMWGREAP_1337
BB16084	706360	WMWGREAP_1337
BB16085	706536	WMWGREAP_1337
BB16086	706536	WMWGREAP_1337
BB16087	706537	WMWGREAP_1337
BB16088	706537	WMWGREAP_1337
BB16089	706537	WMWGREAP_1337
BB16090	706537	WMWGREAP_1337
BB16091	706537	WMWGREAP_1337
BB16092	706537	WMWGREAP_1337
BB16093	706537	WMWGREAP_1337

4. All of the above samples were analyzed and prepared by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times, except for the following:
 - BB15376
 - BB15377
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. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BB15380
 - BB15489
 - BB15498
 - BB15788
 - BB16079
 - BB16093

Anions

Greene County Ash Pond

WMWGREAP_1337

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>
BB15376	706064, 706163, & 705687	WMWGREAP_1337
BB15377	706064, 706163, & 705687	WMWGREAP_1337
BB15378	706064, 706163, & 705687	WMWGREAP_1337
BB15379	706064, 706163, & 705687	WMWGREAP_1337
BB15380	706064, 706163, & 705687	WMWGREAP_1337
BB15381	706064, 706163, & 705687	WMWGREAP_1337
BB15382	706064, 706163, & 705687	WMWGREAP_1337
BB15383	706064, 706163, & 705687	WMWGREAP_1337
BB15486	706064, 706163, & 705687	WMWGREAP_1337
BB15487	706064, 706163, & 705687	WMWGREAP_1337
BB15488	706065, 706164, & 705688	WMWGREAP_1337
BB15489	706065, 706164, & 705688	WMWGREAP_1337
BB15490	706065, 706164, & 705688	WMWGREAP_1337
BB15491	706065, 706164, & 705688	WMWGREAP_1337
BB15492	706065, 706164, & 705688	WMWGREAP_1337
BB15493	706065, 706164, & 705688	WMWGREAP_1337
BB15494	706065, 706164, & 705688	WMWGREAP_1337
BB15495	706065, 706164, & 705688	WMWGREAP_1337
BB15496	706065, 706164, & 705688	WMWGREAP_1337
BB15497	706065, 706164, & 705688	WMWGREAP_1337
BB15498	706066, 706165, & 705689	WMWGREAP_1337
BB15775	706326, 706165, & 706538	WMWGREAP_1337
BB15776	706326, 706165, & 706538	WMWGREAP_1337
BB15777	706326, 706165, & 706538	WMWGREAP_1337
BB15778	706326, 706165, & 706538	WMWGREAP_1337
BB15779	706326, 706165, & 706538	WMWGREAP_1337
BB15780	706326, 706165, & 706538	WMWGREAP_1337
BB15781	706326, 706165, & 706538	WMWGREAP_1337
BB15782	706326, 706165, & 706538	WMWGREAP_1337
BB15783	706326, 706165, & 706538	WMWGREAP_1337
BB15784	706326, 706166, & 706538	WMWGREAP_1337

BB15785	706327, 706166, & 706539	WMWGREAP_1337
BB15786	706327, 706166, & 706539	WMWGREAP_1337
BB15787	706327, 706166, & 706539	WMWGREAP_1337
BB15788	706327, 706166, & 706539	WMWGREAP_1337
BB15789	706327, 706166, & 706539	WMWGREAP_1337
BB15790	706327, 706166, & 706539	WMWGREAP_1337
BB15791	706327, 706166, & 706539	WMWGREAP_1337
BB15792	706327, 706166, & 706539	WMWGREAP_1337
BB16075	706327, 706385, & 706539	WMWGREAP_1337
BB16076	706327, 706385, & 706539	WMWGREAP_1337
BB16077	706328, 706385, & 706540	WMWGREAP_1337
BB16078	706328, 706385, & 706540	WMWGREAP_1337
BB16079	706328, 706385, & 706540	WMWGREAP_1337
BB16080	706328, 706385, & 706540	WMWGREAP_1337
BB16081	706328, 706385, & 706540	WMWGREAP_1337
BB16082	706328, 706385, & 706540	WMWGREAP_1337
BB16083	706328, 706385, & 706540	WMWGREAP_1337
BB16084	706328, 706385, & 706540	WMWGREAP_1337
BB16085	706328, 706386, & 706540	WMWGREAP_1337
BB16086	706328, 706386, & 706540	WMWGREAP_1337
BB16087	706329, 706386, & 706541	WMWGREAP_1337
BB16088	706329, 706386, & 706541	WMWGREAP_1337
BB16089	706329, 706386, & 706541	WMWGREAP_1337
BB16090	706329, 706386, & 706541	WMWGREAP_1337
BB16091	706329, 706386, & 706541	WMWGREAP_1337
BB16092	706329, 706386, & 706541	WMWGREAP_1337
BB16093	706329, 706386, & 706541	WMWGREAP_1337

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 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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>
BB15376	Chloride & Sulfate	3 & 40
BB15377	Sulfate	25
BB15378	Chloride	2
BB15379	Sulfate	25
BB15381	Sulfate	2
BB15383	Chloride	2
BB15486	Chloride & Sulfate	3 & 5
BB15487	Sulfate	5
BB15488	Sulfate	4
BB15490	Sulfate	2
BB15491	Sulfate	2
BB15492	Sulfate	20
BB15780	Sulfate	8
BB15782	Chloride & Sulfate	8 & 16
BB15783	Chloride & Sulfate	8 & 16
BB15784	Sulfate	25
BB15785	Sulfate	8
BB15786	Sulfate	8
BB15787	Chloride	2
BB15790	Sulfate	4
BB15791	Sulfate	4
BB16075	Chloride & Sulfate	8 & 4
BB16076	Chloride & Sulfate	4 & 10
BB16077	Chloride & Sulfate	2 & 4
BB16078	Chloride & Sulfate	8 & 8
BB16080	Sulfate	8
BB16081	Sulfate	4
BB16082	Sulfate	8
BB16083	Sulfate	10
BB16085	Sulfate	20
BB16086	Sulfate	8
BB16088	Sulfate	8
BB16089	Sulfate	8
BB16090	Sulfate	20
BB16091	Sulfate	20
BB16092	Sulfate	8

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

Alkalinity

Greene County Ash Pond

WMWGREAP_1337

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>
BB15376	706473 & 706474	WMWGREAP_1337
BB15377	706473 & 706474	WMWGREAP_1337
BB15378	706473 & 706474	WMWGREAP_1337
BB15379	706473 & 706474	WMWGREAP_1337
BB15381	706473 & 706474	WMWGREAP_1337
BB15382	706473 & 706474	WMWGREAP_1337
BB15383	706473 & 706474	WMWGREAP_1337
BB15486	706571 & 706572	WMWGREAP_1337
BB15487	706571 & 706572	WMWGREAP_1337
BB15488	706571 & 706572	WMWGREAP_1337
BB15490	706571 & 706572	WMWGREAP_1337
BB15491	706571 & 706572	WMWGREAP_1337
BB15492	706571 & 706572	WMWGREAP_1337
BB15493	706571 & 706572	WMWGREAP_1337
BB15494	706571 & 706572	WMWGREAP_1337
BB15495	706571 & 706572	WMWGREAP_1337
BB15496	706571 & 706572	WMWGREAP_1337
BB15497	706571 & 706572	WMWGREAP_1337
BB15775	706571 & 706572	WMWGREAP_1337
BB15776	706571 & 706572	WMWGREAP_1337
BB15777	706571 & 706572	WMWGREAP_1337
BB15778	706815 & 706816	WMWGREAP_1337
BB15779	706815 & 706816	WMWGREAP_1337
BB15780	706815 & 706816	WMWGREAP_1337
BB15781	706815 & 706816	WMWGREAP_1337
BB15782	706815 & 706816	WMWGREAP_1337
BB15783	706815 & 706816	WMWGREAP_1337
BB15784	706815 & 706816	WMWGREAP_1337
BB15785	706815 & 706816	WMWGREAP_1337
BB15786	706815 & 706816	WMWGREAP_1337
BB15787	706815 & 706816	WMWGREAP_1337

BB15789	706815 & 706816	WMWGREAP_1337
BB15790	706815 & 706816	WMWGREAP_1337
BB15791	706815 & 706816	WMWGREAP_1337
BB15792	706815 & 706816	WMWGREAP_1337
BB16075	706839 & 706840	WMWGREAP_1337
BB16076	706839 & 706840	WMWGREAP_1337
BB16077	706839 & 706840	WMWGREAP_1337
BB16078	706839 & 706840	WMWGREAP_1337
BB16080	706964 & 706965	WMWGREAP_1337
BB16081	706964 & 706965	WMWGREAP_1337
BB16082	706964 & 706965	WMWGREAP_1337
BB16083	706964 & 706965	WMWGREAP_1337
BB16084	706839 & 706840	WMWGREAP_1337
BB16085	706839 & 706840	WMWGREAP_1337
BB16086	706839 & 706840	WMWGREAP_1337
BB16087	706839 & 706840	WMWGREAP_1337
BB16088	706964 & 706965	WMWGREAP_1337
BB16089	706964 & 706965	WMWGREAP_1337
BB16090	706964 & 706965	WMWGREAP_1337
BB16091	706964 & 706965	WMWGREAP_1337
BB16092	706964 & 706965	WMWGREAP_1337

4. All of the above samples were analyzed and prepared 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.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 8/17/21 08:45
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15376

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 10:56		1.015	0.281	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 11:51		50.75	103	mg/L	3.50175	20.3	
* Iron, Total	8/25/21 08:48	8/31/21 13:03		101.5	217	mg/L	0.8120	4.06	
* Lithium, Total	8/25/21 08:48	8/27/21 10:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 10:56		1.015	37.4	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/31/21 11:51		50.75	52.9	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:27		101.5	222	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Manganese, Total	8/20/21 10:00	8/23/21 17:19		92.365	13.5	mg/L	0.006188	0.018473	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 17:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:10		1.015	0.0206	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:10		1.015	0.0211	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:10		1.015	0.000336	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 17:10		1.015	0.240	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/20/21 10:00	8/20/21 17:10		1.015	3.25	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 17:10		1.015	0.00209	mg/L	0.000508	0.001015	
* Thallium, Total	8/20/21 10:00	8/20/21 17:10		1.015	0.000124	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/20/21 11:30	8/23/21 14:59		92.365	14.0	mg/L	0.006188	0.018473	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/20/21 15:29	8/20/21 22:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/30/21 14:25	8/30/21 18:11		1	37.3	mg/L		0.1	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS result is qualified due to sample was filtered outside of hold time.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 8/17/21 08:45
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15376

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 14:20	8/26/21 11:25		1	1340	mg/L		83.3	HT
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	37.3	mg/L			
Carbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:33	8/24/21 11:33		3	34.4	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 09:55	8/25/21 09:55		1	0.158	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:04	8/20/21 11:04		40	745	mg/L	20.00	40	
Analytical Method: Field Measurements		Analyst: SNP							
Conductivity	8/17/21 08:41	8/17/21 08:41			1452.91	uS/cm			FA
pH	8/17/21 08:41	8/17/21 08:41			5.49	SU			FA
Temperature	8/17/21 08:41	8/17/21 08:41			21.45	C			FA
Turbidity	8/17/21 08:41	8/17/21 08:41			0.17	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS result is qualified due to sample was filtered outside of hold time.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 08:45

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BB15376

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15487	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15383	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00398	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.252	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS result is qualified due to sample was filtered outside of hold time.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 08:45

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BB15376

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15383	Alkalinity, Total as CaCO3	mg/L					320	49.8	45.0 to 55.0			0.312	10.0
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS result is qualified due to sample was filtered outside of hold time.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 8/17/21 09:55
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15377

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 10:59		1.015	0.131	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 11:54		20.3	143	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 11:54		20.3	44.1	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 10:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 10:59		1.015	20.5	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 10:59		1.015	32.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:30		101.5	44.7	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Manganese, Total	8/20/21 10:00	8/23/21 17:22		5.075	5.37	mg/L	0.000340	0.001015	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 17:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:13		1.015	0.00514	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:13		1.015	0.0347	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:13		1.015	0.00267	mg/L	0.000203	0.001015	
* Cobalt, Total	8/20/21 10:00	8/20/21 17:13		1.015	0.0296	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:13		1.015	0.000591	mg/L	0.000068	0.000203	
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:13		1.015	0.000170	mg/L	0.000068	0.000203	J
* Potassium, Total	8/20/21 10:00	8/20/21 17:13		1.015	6.26	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 17:13		1.015	0.000542	mg/L	0.000508	0.001015	J
* Thallium, Total	8/20/21 10:00	8/20/21 17:13		1.015	0.000132	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:03		5.075	5.36	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/20/21 15:29	8/20/21 22:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/30/21 14:25	8/30/21 18:11		1	45.6	mg/L		0.1	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS result is qualified due to sample was filtered outside of hold time.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 8/17/21 09:55
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15377

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 14:20	8/26/21 11:25		1	808	mg/L		50	HT
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	45.6	mg/L			
Carbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	0.01	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:23	8/24/21 11:23		1	12.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 09:51	8/25/21 09:51		1	0.0974	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:05	8/20/21 11:05		25	502	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: SNP							
Conductivity	8/17/21 09:52	8/17/21 09:52			1027.12	uS/cm			FA
pH	8/17/21 09:52	8/17/21 09:52			5.99	SU			FA
Temperature	8/17/21 09:52	8/17/21 09:52			23.34	C			FA
Turbidity	8/17/21 09:52	8/17/21 09:52			3.04	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS result is qualified due to sample was filtered outside of hold time.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 09:55

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BB15377

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15487	Thallium, Total	mg/L	-0.000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15383	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00398	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.252	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS result is qualified due to sample was filtered outside of hold time.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 09:55

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BB15377

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0
BB15383	Alkalinity, Total as CaCO3	mg/L					320	49.8	45.0 to 55.0			0.312	10.0
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. TDS result is qualified due to sample was filtered outside of hold time.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 8/17/21 10:45
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15378

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 11:06		1.015	0.0518	mg/L	0.030000	0.1015	J
* Calcium, Total	8/25/21 08:48	8/31/21 11:57		20.3	55.4	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 11:57		20.3	57.3	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 11:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 11:06		1.015	3.98	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 11:06		1.015	29.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:33		101.5	58.3	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 17:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:17		1.015	0.0119	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:17		1.015	0.150	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:17		1.015	0.000324	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 17:17		1.015	0.000388	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/20/21 10:00	8/20/21 17:17		1.015	0.670	mg/L	0.169505	0.5075	
* Manganese, Total	8/20/21 10:00	8/20/21 17:17		1.015	0.364	mg/L	0.000068	0.000203	
* Selenium, Total	8/20/21 10:00	8/20/21 17:17		1.015	0.000974	mg/L	0.000508	0.001015	J
* Thallium, Total	8/20/21 10:00	8/20/21 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/20/21 11:30	8/20/21 16:49		1.015	0.354	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/20/21 15:29	8/20/21 22:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/30/21 14:25	8/30/21 18:11		1	243	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 10:40	8/26/21 11:25		1	297	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP

Collected: 8/17/21 10:45

Customer ID:

Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15378

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	243	mg/L			
Carbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	0.06	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:34	8/24/21 11:34		2	21.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 09:52	8/25/21 09:52		1	0.184	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 10:54	8/20/21 10:54		1	12.0	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: SNP							
Conductivity	8/17/21 10:39	8/17/21 10:39			554.26	uS/cm			FA
pH	8/17/21 10:39	8/17/21 10:39			6.13	SU			FA
Temperature	8/17/21 10:39	8/17/21 10:39			22.38	C			FA
Turbidity	8/17/21 10:39	8/17/21 10:39			0.46	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 10:45

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BB15378

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15487	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15383	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00398	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.252	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 10:45

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BB15378

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15383	Alkalinity, Total as CaCO ₃	mg/L					320	49.8	45.0 to 55.0			0.312	10.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 8/17/21 12:20
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15379

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB		Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 11:09		1.015	0.296	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:01		20.3	149	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:01		20.3	32.8	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 11:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 11:09		1.015	34.2	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 11:09		1.015	25.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:37		101.5	37.9	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: ABB		Preparation Method: EPA 1638					
* Manganese, Total	8/20/21 10:00	8/23/21 17:26		10.15	8.08	mg/L	0.000680	0.00203	
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	8/20/21 10:00	8/20/21 17:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:20		1.015	0.00210	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:20		1.015	0.0781	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:20		1.015	0.000330	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 17:20		1.015	0.211	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:20		1.015	0.000224	mg/L	0.000068	0.000203	
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/20/21 10:00	8/20/21 17:20		1.015	6.13	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 17:20		1.015	0.00321	mg/L	0.000508	0.001015	
* Thallium, Total	8/20/21 10:00	8/20/21 17:20		1.015	0.000106	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:06		10.15	8.42	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/20/21 15:29	8/20/21 22:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/30/21 14:25	8/30/21 18:11		1	55.0	mg/L		0.1	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 8/17/21 12:20
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15379

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 10:47	8/26/21 11:25		1	900	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	55.0	mg/L			
Carbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	0.01	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:25	8/24/21 11:25		1	8.13	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 09:53	8/25/21 09:53		1	0.117	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:06	8/20/21 11:06		25	569	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: SNP							
Conductivity	8/17/21 12:17	8/17/21 12:17			1044.53	uS/cm			FA
pH	8/17/21 12:17	8/17/21 12:17			5.64	SU			FA
Temperature	8/17/21 12:17	8/17/21 12:17			22.67	C			FA
Turbidity	8/17/21 12:17	8/17/21 12:17			1.29	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 12:20

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BB15379

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15487	Thallium, Total	mg/L	-0.000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15383	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00398	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.252	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 12:20

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BB15379

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15383	Alkalinity, Total as CaCO3	mg/L					320	49.8	45.0 to 55.0			0.312	10.0
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 8/17/21 11:40
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15380

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 11:13		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 11:13		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	8/25/21 08:48	8/27/21 11:13		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 11:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 11:13		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	8/25/21 08:48	8/27/21 11:13		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/20/21 10:00	8/20/21 17:24		1.015	0.000157	mg/L	0.000068	0.000203	J
* Potassium, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/20/21 15:29	8/20/21 22:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 10:44	8/26/21 11:25		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:27	8/24/21 11:27		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 09:54	8/25/21 09:54		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 10:57	8/20/21 10:57		1	0.878	mg/L	0.50	1	J

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/17/21 11:40

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB15380

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB15487	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB15487	Lead, Total	mg/L	0.0000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15383	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00398	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.252	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/17/21 11:40

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BB15380

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 8/17/21 14:00
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15381

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB		Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 11:16		1.015	1.98	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:04		20.3	103	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:04		20.3	16.0	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 11:16		1.015	0.647	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 11:16		1.015	24.9	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 11:16		1.015	36.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:40		101.5	15.9	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: ABB		Preparation Method: EPA 1638					
* Manganese, Total	8/20/21 10:00	8/23/21 17:29		5.075	3.24	mg/L	0.000340	0.001015	
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	8/20/21 10:00	8/20/21 17:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:27		1.015	0.0765	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:27		1.015	0.101	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:27		1.015	0.000404	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 17:27		1.015	0.0155	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:27		1.015	0.000108	mg/L	0.000068	0.000203	J
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:27		1.015	0.000145	mg/L	0.000068	0.000203	J
* Potassium, Total	8/20/21 10:00	8/20/21 17:27		1.015	13.2	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 17:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 17:27		1.015	0.000356	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:10		5.075	3.21	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/20/21 15:29	8/20/21 22:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/30/21 14:25	8/30/21 18:11		1	387	mg/L		0.1	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 8/17/21 14:00
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15381

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 10:50	8/26/21 11:25		1	490	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	387	mg/L			
Carbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	0.14	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:28	8/24/21 11:28		1	10.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 09:57	8/25/21 09:57		1	0.286	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:10	8/20/21 11:10		2	46.6	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: SNP							
Conductivity	8/17/21 13:58	8/17/21 13:58			785.59	uS/cm			FA
pH	8/17/21 13:58	8/17/21 13:58			6.33	SU			FA
Temperature	8/17/21 13:58	8/17/21 13:58			19.95	C			FA
Turbidity	8/17/21 13:58	8/17/21 13:58			7.6	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 14:00

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BB15381

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15487	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15383	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00398	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.252	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 14:00

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BB15381

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15383	Alkalinity, Total as CaCO3	mg/L					320	49.8	45.0 to 55.0			0.312	10.0
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 8/17/21 15:10
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15382

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB		Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 11:19		1.015	2.18	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:08		20.3	78.3	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:08		20.3	30.7	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 11:19		1.015	0.585	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 11:19		1.015	22.2	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/31/21 12:08		20.3	73.0	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:44		101.5	30.3	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: ABB		Preparation Method: EPA 1638					
* Manganese, Total	8/20/21 10:00	8/23/21 17:33		5.075	1.89	mg/L	0.000340	0.001015	
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	8/20/21 10:00	8/20/21 17:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:31		1.015	0.937	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:31		1.015	0.254	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:31		1.015	0.000216	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 17:31		1.015	0.0109	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:31		1.015	0.0468	mg/L	0.000068	0.000203	
* Potassium, Total	8/20/21 10:00	8/20/21 17:31		1.015	11.8	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 17:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB		Preparation Method: EPA 1638					
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:13		5.075	1.93	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB		Preparation Method: EPA 1638					
* Mercury, Total by CVAA	8/20/21 15:29	8/20/21 22:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB		Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	8/30/21 14:25	8/30/21 18:11		1	400	mg/L		0.1	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 8/17/21 15:10
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15382

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 10:51	8/26/21 11:25		1	506	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	400	mg/L			
Carbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	0.19	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:29	8/24/21 11:29		1	14.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 09:58	8/25/21 09:58		1	0.494	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 10:59	8/20/21 10:59		1	32.8	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: SNP							
Conductivity	8/17/21 15:06	8/17/21 15:06			835.21	uS/cm			FA
pH	8/17/21 15:06	8/17/21 15:06			6.57	SU			FA
Temperature	8/17/21 15:06	8/17/21 15:06			21.11	C			FA
Turbidity	8/17/21 15:06	8/17/21 15:06			6.01	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 15:10

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BB15382

Sample	Analysis	Units	MB				Standard		Rec			Prec Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		Prec
BB15487	Thallium, Total	mg/L	-0.000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15383	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00398	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.252	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 15:10

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BB15382

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15383	Alkalinity, Total as CaCO3	mg/L					320	49.8	45.0 to 55.0			0.312	10.0
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 8/17/21 16:00
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15383

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 11:23		1.015	1.45	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:11		20.3	77.4	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:11		20.3	12.3	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 11:23		1.015	0.335	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 11:23		1.015	15.2	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/31/21 12:11		20.3	45.2	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:47		101.5	12.2	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Manganese, Total	8/20/21 10:00	8/23/21 17:36		5.075	3.27	mg/L	0.000340	0.001015	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 17:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:35		1.015	0.0509	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:35		1.015	0.0763	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:35		1.015	0.000230	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 17:35		1.015	0.0175	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:35		1.015	0.000397	mg/L	0.000068	0.000203	
* Potassium, Total	8/20/21 10:00	8/20/21 17:35		1.015	6.01	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 17:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 17:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:17		5.075	3.34	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/20/21 15:29	8/20/21 22:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/30/21 14:25	8/30/21 18:11		1	321	mg/L		0.1	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 8/17/21 16:00
Customer ID:
Submittal Date: 8/18/21 15:19

Laboratory ID Number: BB15383

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 10:55	8/26/21 11:25		1	397	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	321	mg/L			
Carbonate Alkalinity, (calc.)	8/30/21 14:25	8/30/21 18:11		1	0.11	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:39	8/24/21 11:39		2	25.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 09:59	8/25/21 09:59		1	0.212	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:00	8/20/21 11:00		1	12.2	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: SNP							
Conductivity	8/17/21 15:56	8/17/21 15:56			648.44	uS/cm			FA
pH	8/17/21 15:56	8/17/21 15:56			6.38	SU			FA
Temperature	8/17/21 15:56	8/17/21 15:56			20.85	C			FA
Turbidity	8/17/21 15:56	8/17/21 15:56			1.65	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 16:00

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BB15383

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15487	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15383	Mercury, Total by CVAA	mg/L	-3.000E-05	0.000500	0.004	0.00397	0.00398	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.252	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/17/21 16:00

Customer ID:

Delivery Date: 8/18/21 15:19

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BB15383

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00
BB15383	Alkalinity, Total as CaCO3	mg/L					320	49.8	45.0 to 55.0			0.312	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP
Collected: 8/18/21 08:55
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15486

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 11:26		1.015	1.23	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:14		20.3	106	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:14		20.3	13.1	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 11:26		1.015	0.344	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 11:26		1.015	30.4	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/31/21 12:14		20.3	50.2	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:50		101.5	13.5	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Manganese, Total	8/20/21 10:00	8/23/21 17:40		10.15	10.6	mg/L	0.000680	0.00203	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 17:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:38		1.015	0.0116	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:38		1.015	0.187	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 17:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/20/21 10:00	8/20/21 17:38		1.015	0.0196	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:38		1.015	0.00283	mg/L	0.000068	0.000203	
* Potassium, Total	8/20/21 10:00	8/20/21 17:38		1.015	9.57	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 17:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:21		10.15	10.4	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	360	mg/L		0.1	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP
Collected: 8/18/21 08:55
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15486

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 14:20	8/26/21 11:25		1	578	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	360	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.18	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:40	8/24/21 11:40		3	35.8	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:00	8/25/21 10:00		1	0.166	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:11	8/20/21 11:11		5	107	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/18/21 08:52	8/18/21 08:52			991.06	uS/cm			FA
pH	8/18/21 08:52	8/18/21 08:52			6.46	SU			FA
Temperature	8/18/21 08:52	8/18/21 08:52			20.78	C			FA
Turbidity	8/18/21 08:52	8/18/21 08:52			2.28	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 08:55

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BB15486

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15487	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 08:55

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BB15486

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 8/18/21 09:56
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15487

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB		Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 11:29		1.015	0.157	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/27/21 11:29		1.015	19.5	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 11:29		1.015	0.266	mg/L	0.008120	0.0406	
* Lithium, Total	8/25/21 08:48	8/27/21 11:29		1.015	0.0538	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 11:29		1.015	4.65	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 11:29		1.015	11.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA		Preparation Method: EPA 1638					
* Iron, Dissolved	9/2/21 11:07	9/2/21 12:47		1.015	0.193	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: ABB		Preparation Method: EPA 1638					
* Manganese, Total	8/20/21 10:00	8/23/21 17:51		5.075	1.63	mg/L	0.000340	0.001015	RA
Analytical Method: EPA 200.8		Analyst: DLJ		Preparation Method: EPA 1638					
* Antimony, Total	8/20/21 10:00	8/20/21 17:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 17:42		1.015	0.000739	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 17:42		1.015	0.0492	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 17:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 17:42		1.015	0.000212	mg/L	0.000068	0.000203	
* Chromium, Total	8/20/21 10:00	8/20/21 17:42		1.015	0.000402	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 17:42		1.015	0.00507	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 17:42		1.015	0.000223	mg/L	0.000068	0.000203	
* Potassium, Total	8/20/21 10:00	8/20/21 17:42		1.015	3.58	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 17:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB		Preparation Method: EPA 1638					
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:24		5.075	1.57	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB		Preparation Method: EPA 1638					
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB		Preparation Method: EPA 1638					
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	30.6	mg/L		0.1	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 8/18/21 09:56
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15487

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	130	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	30.6	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.01	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:35	8/24/21 11:35		1	5.30	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:01	8/25/21 10:01		1	0.0638	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:23	8/20/21 11:23		5	51.4	mg/L	2.50	5	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/18/21 09:53	8/18/21 09:53			211.09	uS/cm			FA
pH	8/18/21 09:53	8/18/21 09:53			6.05	SU			FA
Temperature	8/18/21 09:53	8/18/21 09:53			23.28	C			FA
Turbidity	8/18/21 09:53	8/18/21 09:53			1.59	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 09:56

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BB15487

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15487	Lead, Total	mg/L	0.000005	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15487	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.16	1.16	1.01	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BB15487	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BB15487	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.465	0.466	0.207	0.170 to 0.230	99.5	70.0 to 130	0.215	20.0
BB15487	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.109	0.106	0.105	0.0850 to 0.115	108	70.0 to 130	2.79	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15487	Potassium, Total	mg/L	0.00958	0.367	10.0	13.4	13.6	10.4	8.50 to 11.5	98.2	70.0 to 130	1.48	20.0
BB15487	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15487	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15487	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.109	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	0.922	20.0
BB15487	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.105	0.108	0.106	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BB15487	Magnesium, Total	mg/L	0.000806	0.0462	5.00	9.59	9.52	5.00	4.25 to 5.75	98.8	70.0 to 130	0.733	20.0
BB15487	Sodium, Total	mg/L	0.000452	0.0660	5.00	16.6	16.5	4.95	4.25 to 5.75	108	70.0 to 130	0.604	20.0
BB15487	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15487	Manganese, Total	mg/L	0.0000168	0.000147	0.100	1.68	1.63	0.106	0.0850 to 0.115	50.0	70.0 to 130	3.02	20.0
BB15487	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.258	0.257	0.198	0.170 to 0.230	102	70.0 to 130	0.388	20.0
BB15487	Calcium, Total	mg/L	-0.00148	0.152	5.00	24.3	24.2	5.07	4.25 to 5.75	96.0	70.0 to 130	0.412	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BB15487	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0978	0.0968	0.0953	0.0850 to 0.115	97.8	70.0 to 130	1.03	20.0
BB15487	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.147	0.145	0.0991	0.0850 to 0.115	97.8	70.0 to 130	1.37	20.0
BB15487	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 09:56

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BB15487

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15487	Sulfate	mg/L	-0.137	1.00	100	154	54.6	18.7	18.0 to 22.0	103	80.0 to 120	6.04	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00
BB15487	Chloride	mg/L	0.0887	1.00	10.0	15.0	5.38	9.75	9.00 to 11.0	97.0	80.0 to 120	1.50	20.0
BB15487	Fluoride	mg/L	0.0249	0.100	2.50	2.70	0.070	2.55	2.25 to 2.75	105	80.0 to 120	9.27	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 8/18/21 11:04
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15488

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 11:46		1.015	1.03	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:18		20.3	74.4	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:18		20.3	10.9	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 11:46		1.015	0.0304	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 11:46		1.015	13.8	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 11:46		1.015	35.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 11:54		101.5	10.8	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Manganese, Total	8/20/21 10:00	8/27/21 13:45		10.15	7.53	mg/L	0.000680	0.00203	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:03		1.015	0.00456	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 18:03		1.015	0.145	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 18:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 18:03		1.015	0.0000898	mg/L	0.000068	0.000203	J
* Chromium, Total	8/20/21 10:00	8/20/21 18:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/20/21 10:00	8/20/21 18:03		1.015	0.0436	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:03		1.015	0.000148	mg/L	0.000068	0.000203	J
* Potassium, Total	8/20/21 10:00	8/20/21 18:03		1.015	4.23	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 18:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:31		10.15	7.18	mg/L	0.000680	0.00203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	225	mg/L		0.1	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 8/18/21 11:04
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15488

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	401	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	225	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.06	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:51	8/24/21 11:51		1	17.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:13	8/25/21 10:13		1	0.111	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:51	8/20/21 11:51		4	83.6	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/18/21 11:01	8/18/21 11:01			657.66	uS/cm			FA
pH	8/18/21 11:01	8/18/21 11:01			6.16	SU			FA
Temperature	8/18/21 11:01	8/18/21 11:01			22.32	C			FA
Turbidity	8/18/21 11:01	8/18/21 11:01			8.22	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 11:04

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BB15488

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15488	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	10.9	10.9	0.212	0.170 to 0.230	50.0	70.0 to 130	0.00	20.0
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15488	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	7.12	7.17	0.105	0.0850 to 0.115	-60.0	70.0 to 130	0.700	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 11:04

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BB15488

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-3

Location Code: WMWGREAPFB
Collected: 8/18/21 11:40
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15489

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 11:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 11:50		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	8/25/21 08:48	8/27/21 11:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 11:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 11:50		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	8/25/21 08:48	8/27/21 11:50		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/20/21 10:00	8/20/21 18:07		1.015	0.000128	mg/L	0.000068	0.000203	J
* Potassium, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	8/24/21 11:52	8/24/21 11:52		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	8/25/21 10:15	8/25/21 10:15		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	8/20/21 11:37	8/20/21 11:37		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/18/21 11:40

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BB15489

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/18/21 11:40

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BB15489

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP
Collected: 8/18/21 12:10
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15490

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 11:53		1.015	0.131	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/27/21 11:53		1.015	17.9	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 11:53		1.015	0.0232	mg/L	0.008120	0.0406	J
* Lithium, Total	8/25/21 08:48	8/27/21 11:53		1.015	0.0821	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 11:53		1.015	4.53	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 11:53		1.015	10.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:11		1.015	0.0148	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:10		1.015	0.000247	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 18:10		1.015	0.0239	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 18:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 18:10		1.015	0.0000726	mg/L	0.000068	0.000203	J
* Chromium, Total	8/20/21 10:00	8/20/21 18:10		1.015	0.000216	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 18:10		1.015	0.000395	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:10		1.015	0.0000703	mg/L	0.000068	0.000203	J
* Potassium, Total	8/20/21 10:00	8/20/21 18:10		1.015	3.28	mg/L	0.169505	0.5075	
* Manganese, Total	8/20/21 10:00	8/20/21 18:10		1.015	0.121	mg/L	0.000068	0.000203	
* Selenium, Total	8/20/21 10:00	8/20/21 18:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/20/21 11:30	8/20/21 17:36		1.015	0.123	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	31.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	121	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP

Collected: 8/18/21 12:10

Customer ID:

Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15490

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	31.5	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.01	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/24/21 11:53	8/24/21 11:53		1	4.07	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:16	8/25/21 10:16		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:52	8/20/21 11:52		2	47.0	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/18/21 12:07	8/18/21 12:07			185.10	uS/cm			FA
pH	8/18/21 12:07	8/18/21 12:07			5.96	SU			FA
Temperature	8/18/21 12:07	8/18/21 12:07			21.32	C			FA
Turbidity	8/18/21 12:07	8/18/21 12:07			1.11	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 12:10

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BB15490

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB15497	Molybdenum, Total	mg/L	0.000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	0.108	0.105	0.105	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 12:10

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BB15490

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H DUP

Location Code: WMWGREAP
Collected: 8/18/21 12:10
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15491

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 11:56		1.015	0.131	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/27/21 11:56		1.015	18.0	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 11:56		1.015	0.0155	mg/L	0.008120	0.0406	J
* Lithium, Total	8/25/21 08:48	8/27/21 11:56		1.015	0.0822	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 11:56		1.015	4.54	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 11:56		1.015	10.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:14		1.015	0.0151	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:14		1.015	0.000224	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 18:14		1.015	0.0244	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 18:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 18:14		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/20/21 10:00	8/20/21 18:14		1.015	0.000396	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:14		1.015	0.0000940	mg/L	0.000068	0.000203	J
* Potassium, Total	8/20/21 10:00	8/20/21 18:14		1.015	3.16	mg/L	0.169505	0.5075	
* Manganese, Total	8/20/21 10:00	8/20/21 18:14		1.015	0.114	mg/L	0.000068	0.000203	
* Selenium, Total	8/20/21 10:00	8/20/21 18:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/20/21 11:30	8/20/21 17:39		1.015	0.111	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	31.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/25/21 10:32	8/27/21 13:15		1	124	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H DUP

Location Code: WMWGREAP
Collected: 8/18/21 12:10
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15491

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	31.7	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.01	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:54	8/24/21 11:54		1	4.28	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:17	8/25/21 10:17		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:53	8/20/21 11:53		2	49.4	mg/L	1.00	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/18/21 12:07	8/18/21 12:07			185.10	uS/cm			FA
pH	8/18/21 12:07	8/18/21 12:07			5.96	SU			FA
Temperature	8/18/21 12:07	8/18/21 12:07			21.32	C			FA
Turbidity	8/18/21 12:07	8/18/21 12:07			1.11	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 12:10

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-48H DUP

Laboratory ID Number: BB15491

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	0.108	0.105	0.105	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 12:10

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-48H DUP

Laboratory ID Number: BB15491

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB15491	Solids, Dissolved	mg/L	0.0000	25.0			123	52.0	40.0 to 60.0			0.405	5.00
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 8/18/21 13:33
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15492

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:00		1.015	0.646	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:21		20.3	122	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/27/21 12:00		1.015	0.863	mg/L	0.008120	0.0406	
* Lithium, Total	8/25/21 08:48	8/27/21 12:00		1.015	0.367	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/31/21 12:21		20.3	44.0	mg/L	0.4263	8.12	
* Sodium, Total	8/25/21 08:48	8/27/21 12:00		1.015	30.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:18		1.015	0.394	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Manganese, Total	8/20/21 10:00	8/23/21 17:47		10.15	8.61	mg/L	0.000680	0.00203	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:17		1.015	0.00143	mg/L	0.000068	0.000203	
* Barium, Total	8/20/21 10:00	8/20/21 18:17		1.015	0.0942	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 18:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 18:17		1.015	0.000300	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 18:17		1.015	0.0119	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:17		1.015	0.0752	mg/L	0.000068	0.000203	
* Potassium, Total	8/20/21 10:00	8/20/21 18:17		1.015	7.45	mg/L	0.169505	0.5075	
* Selenium, Total	8/20/21 10:00	8/20/21 18:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:17		1.015	0.000205	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Manganese, Dissolved	8/20/21 11:30	8/23/21 15:28		10.15	8.52	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	127	mg/L		0.1	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 8/18/21 13:33
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15492

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/25/21 10:32	8/27/21 13:15		1	730	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	127	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.11	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:56	8/24/21 11:56		1	9.94	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:18	8/25/21 10:18		1	0.172	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:54	8/20/21 11:54		20	395	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/18/21 13:30	8/18/21 13:30			999.66	uS/cm			FA
pH	8/18/21 13:30	8/18/21 13:30			6.84	SU			FA
Temperature	8/18/21 13:30	8/18/21 13:30			23.38	C			FA
Turbidity	8/18/21 13:30	8/18/21 13:30			7.7	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 13:33

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BB15492

Sample	Analysis	Units	MB					Standard		Rec			Prec
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	0.108	0.105	0.105	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 13:33

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BB15492

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 8/18/21 09:20
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15493

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:03		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 12:03		1.015	4.84	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 12:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 12:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 12:03		1.015	0.557	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 12:03		1.015	3.79	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:21		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:21		1.015	0.000157	mg/L	0.000068	0.000203	J
* Barium, Total	8/20/21 10:00	8/20/21 18:21		1.015	0.0311	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 18:21		1.015	0.000409	mg/L	0.000406	0.001015	J
* Cadmium, Total	8/20/21 10:00	8/20/21 18:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 18:21		1.015	0.000225	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 18:21		1.015	0.000669	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 18:21		1.015	0.0000696	mg/L	0.000068	0.000203	J
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/20/21 10:00	8/20/21 18:21		1.015	0.428	mg/L	0.169505	0.5075	J
* Manganese, Total	8/20/21 10:00	8/20/21 18:21		1.015	0.0433	mg/L	0.000068	0.000203	
* Selenium, Total	8/20/21 10:00	8/20/21 18:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/20/21 11:30	8/20/21 17:46		1.015	0.0421	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	21.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/24/21 14:20	8/26/21 11:25		1	43.3	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP

Collected: 8/18/21 09:20

Customer ID:

Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15493

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	21.8	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/24/21 11:57	8/24/21 11:57		1	2.97	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:19	8/25/21 10:19		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:42	8/20/21 11:42		1	7.07	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/18/21 09:17	8/18/21 09:17			57.61	uS/cm			FA
pH	8/18/21 09:17	8/18/21 09:17			5.25	SU			FA
Temperature	8/18/21 09:17	8/18/21 09:17			19.21	C			FA
Turbidity	8/18/21 09:17	8/18/21 09:17			0.16	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 09:20

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BB15493

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	0.108	0.105	0.105	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 09:20

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BB15493

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15777	Alkalinity, Total as CaCO ₃	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15486	Solids, Dissolved	mg/L	-1.00	25.0			584	50.0	40.0 to 60.0			0.516	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 8/18/21 10:15
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15494

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:07		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 12:07		1.015	1.11	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 12:07		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 12:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 12:07		1.015	0.513	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 12:07		1.015	2.60	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:24		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/20/21 10:00	8/20/21 18:24		1.015	0.0607	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 18:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 18:24		1.015	0.000184	mg/L	0.000068	0.000203	J
* Chromium, Total	8/20/21 10:00	8/20/21 18:24		1.015	0.000321	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 18:24		1.015	0.000160	mg/L	0.000068	0.000203	J
* Lead, Total	8/20/21 10:00	8/20/21 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/20/21 10:00	8/20/21 18:24		1.015	0.845	mg/L	0.169505	0.5075	
* Manganese, Total	8/20/21 10:00	8/20/21 18:24		1.015	0.0147	mg/L	0.000068	0.000203	
* Selenium, Total	8/20/21 10:00	8/20/21 18:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/20/21 11:30	8/20/21 17:50		1.015	0.0139	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 20:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	1.38	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	28.7	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 8/18/21 10:15
Customer ID:
Submittal Date: 8/19/21 11:53

Laboratory ID Number: BB15494

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	1.38	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/24/21 11:58	8/24/21 11:58		1	2.45	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:21	8/25/21 10:21		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:43	8/20/21 11:43		1	3.18	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/18/21 10:13	8/18/21 10:13			34.22	uS/cm			FA
pH	8/18/21 10:13	8/18/21 10:13			4.52	SU			FA
Temperature	8/18/21 10:13	8/18/21 10:13			19.76	C			FA
Turbidity	8/18/21 10:13	8/18/21 10:13			0.13	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 10:15

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BB15494

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	0.108	0.105	0.105	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 10:15

Customer ID:

Delivery Date: 8/19/21 11:53

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BB15494

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 8/18/21 11:07
Customer ID:
Submittal Date: 8/19/21 11:54

Laboratory ID Number: BB15495

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:10		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 12:10		1.015	1.94	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 12:10		1.015	0.00970	mg/L	0.008120	0.0406	J
* Lithium, Total	8/25/21 08:48	8/27/21 12:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 12:10		1.015	1.66	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 12:10		1.015	1.13	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:28		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:28		1.015	0.0000903	mg/L	0.000068	0.000203	J
* Barium, Total	8/20/21 10:00	8/20/21 18:28		1.015	0.198	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 18:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 18:28		1.015	0.000421	mg/L	0.000068	0.000203	
* Chromium, Total	8/20/21 10:00	8/20/21 18:28		1.015	0.000708	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 18:28		1.015	0.000362	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 18:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/20/21 10:00	8/20/21 18:28		1.015	1.79	mg/L	0.169505	0.5075	
* Manganese, Total	8/20/21 10:00	8/20/21 18:28		1.015	0.0653	mg/L	0.000068	0.000203	
* Selenium, Total	8/20/21 10:00	8/20/21 18:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/20/21 11:30	8/20/21 17:54		1.015	0.0643	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: ABB						
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	0.38	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	32.0	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 8/18/21 11:07
Customer ID:
Submittal Date: 8/19/21 11:54

Laboratory ID Number: BB15495

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.380	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 11:59	8/24/21 11:59		1	1.42	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:22	8/25/21 10:22		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:45	8/20/21 11:45		1	10.1	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/18/21 11:03	8/18/21 11:03			50.42	uS/cm			FA
pH	8/18/21 11:03	8/18/21 11:03			3.78	SU			FA
Temperature	8/18/21 11:03	8/18/21 11:03			19.09	C			FA
Turbidity	8/18/21 11:03	8/18/21 11:03			0.18	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 11:07

Customer ID:

Delivery Date: 8/19/21 11:54

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BB15495

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15495	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00394	0.00396	0.00395	0.00340 to 0.00460	98.5	70.0 to 130	0.506	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.000000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	0.108	0.105	0.105	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 11:07

Customer ID:

Delivery Date: 8/19/21 11:54

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BB15495

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 8/18/21 12:05
Customer ID:
Submittal Date: 8/19/21 11:54

Laboratory ID Number: BB15496

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:13		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 12:13		1.015	0.283	mg/L	0.070035	0.406	J
* Iron, Total	8/25/21 08:48	8/27/21 12:13		1.015	0.0139	mg/L	0.008120	0.0406	J
* Lithium, Total	8/25/21 08:48	8/27/21 12:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 12:13		1.015	0.373	mg/L	0.021315	0.406	J
* Sodium, Total	8/25/21 08:48	8/27/21 12:13		1.015	1.13	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 18:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 18:32		1.015	0.0000945	mg/L	0.000068	0.000203	J
* Barium, Total	8/20/21 10:00	8/20/21 18:32		1.015	0.0554	mg/L	0.000102	0.000203	
* Beryllium, Total	8/20/21 10:00	8/20/21 18:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 18:32		1.015	0.000193	mg/L	0.000068	0.000203	J
* Chromium, Total	8/20/21 10:00	8/20/21 18:32		1.015	0.000256	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/20/21 10:00	8/20/21 18:32		1.015	0.00190	mg/L	0.000068	0.000203	
* Lead, Total	8/20/21 10:00	8/20/21 18:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/20/21 10:00	8/20/21 18:32		1.015	0.931	mg/L	0.169505	0.5075	
* Manganese, Total	8/20/21 10:00	8/20/21 18:32		1.015	0.0190	mg/L	0.000068	0.000203	
* Selenium, Total	8/20/21 10:00	8/20/21 18:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 18:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/20/21 11:30	8/20/21 17:57		1.015	0.0189	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	0.10	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	Not Detected	mg/L		25	U

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP

Collected: 8/18/21 12:05

Customer ID:

Submittal Date: 8/19/21 11:54

Laboratory ID Number: BB15496

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.0999	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 12:00	8/24/21 12:00		1	1.42	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:23	8/25/21 10:23		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:46	8/20/21 11:46		1	0.860	mg/L	0.50	1	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/18/21 12:00	8/18/21 12:00			20.69	uS/cm			FA
pH	8/18/21 12:00	8/18/21 12:00			3.94	SU			FA
Temperature	8/18/21 12:00	8/18/21 12:00			18.70	C			FA
Turbidity	8/18/21 12:00	8/18/21 12:00			1.21	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/21 12:05
Customer ID:
Delivery Date: 8/19/21 11:54

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BB15496

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	0.108	0.105	0.105	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 12:05

Customer ID:

Delivery Date: 8/19/21 11:54

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BB15496

Sample	Analysis	Units	MB	MB			Sample		Standard		Rec			Prec Limit	
				Limit	Spike	MS	Duplicate	Standard	Limit	Rec	Limit	Prec			
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75		99.2	80.0 to 120		0.00	20.0
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0		96.4	80.0 to 120		1.13	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0		90.7	80.0 to 120		11.9	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0					0.00	10.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0					0.273	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 8/18/21 13:00
Customer ID:
Submittal Date: 8/19/21 11:54

Laboratory ID Number: BB15497

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 12:17		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	8/25/21 08:48	8/27/21 12:17		1.015	0.716	mg/L	0.070035	0.406		
* Iron, Total	8/25/21 08:48	8/27/21 12:17		1.015	0.0123	mg/L	0.008120	0.0406	J	
* Lithium, Total	8/25/21 08:48	8/27/21 12:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	8/25/21 08:48	8/27/21 12:17		1.015	0.196	mg/L	0.021315	0.406	J	
* Sodium, Total	8/25/21 08:48	8/27/21 12:17		1.015	4.15	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:35		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	8/20/21 10:00	8/20/21 18:35		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	8/20/21 10:00	8/20/21 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	8/20/21 10:00	8/20/21 18:35		1.015	0.0329	mg/L	0.000102	0.000203		
* Beryllium, Total	8/20/21 10:00	8/20/21 18:35		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	8/20/21 10:00	8/20/21 18:35		1.015	0.0000839	mg/L	0.000068	0.000203	J	
* Chromium, Total	8/20/21 10:00	8/20/21 18:35		1.015	0.000326	mg/L	0.000203	0.001015	J	
* Cobalt, Total	8/20/21 10:00	8/20/21 18:35		1.015	0.000112	mg/L	0.000068	0.000203	J	
* Lead, Total	8/20/21 10:00	8/20/21 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	8/20/21 10:00	8/20/21 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	8/20/21 10:00	8/20/21 18:35		1.015	0.741	mg/L	0.169505	0.5075		
* Manganese, Total	8/20/21 10:00	8/20/21 18:35		1.015	0.00516	mg/L	0.000068	0.000203		
* Selenium, Total	8/20/21 10:00	8/20/21 18:35		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	8/20/21 10:00	8/20/21 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: DLJ								
* Manganese, Dissolved	8/20/21 11:30	8/20/21 18:01		1.015	0.00499	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:33		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ABB								
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	3.10	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	28.7	mg/L		25		

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 8/18/21 13:00
Customer ID:
Submittal Date: 8/19/21 11:54

Laboratory ID Number: BB15497

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	3.10	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/24/21 12:02	8/24/21 12:02		1	4.46	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:24	8/25/21 10:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/20/21 11:47	8/20/21 11:47		1	0.754	mg/L	0.50	1	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/18/21 12:56	8/18/21 12:56			33.81	uS/cm			FA
pH	8/18/21 12:56	8/18/21 12:56			4.01	SU			FA
Temperature	8/18/21 12:56	8/18/21 12:56			18.91	C			FA
Turbidity	8/18/21 12:56	8/18/21 12:56			0.28	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/21 13:00
Customer ID:
Delivery Date: 8/19/21 11:54

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BB15497

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB15497	Manganese, Total	mg/L	0.0000168	0.000147	0.100	0.109	0.113	0.106	0.0850 to 0.115	104	70.0 to 130	3.60	20.0
BB15497	Thallium, Total	mg/L	-0.0000079	0.000147	0.100	0.104	0.107	0.107	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Boron, Total	mg/L	-0.000359	0.0650	1.00	1.03	1.03	1.01	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BB15497	Barium, Total	mg/L	-0.0000287	0.000200	0.100	0.137	0.140	0.0991	0.0850 to 0.115	104	70.0 to 130	2.17	20.0
BB15497	Chromium, Total	mg/L	-0.000114	0.000440	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BB15497	Cadmium, Total	mg/L	0.00000	0.000147	0.100	0.100	0.102	0.104	0.0850 to 0.115	99.9	70.0 to 130	1.98	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0
BB15497	Sodium, Total	mg/L	0.000452	0.0660	5.00	9.28	9.32	4.95	4.25 to 5.75	103	70.0 to 130	0.430	20.0
BB15497	Beryllium, Total	mg/L	0.0000695	0.000880	0.100	0.101	0.105	0.106	0.0850 to 0.115	101	70.0 to 130	3.88	20.0
BB15497	Arsenic, Total	mg/L	0.000066	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BB15497	Lithium, Total	mg/L	-7.800E-05	0.0154	0.200	0.201	0.201	0.198	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BB15497	Iron, Total	mg/L	-0.000172	0.0176	0.2	0.219	0.223	0.207	0.170 to 0.230	103	70.0 to 130	1.81	20.0
BB15497	Magnesium, Total	mg/L	0.000806	0.0462	5.00	5.25	5.24	5.00	4.25 to 5.75	101	70.0 to 130	0.191	20.0
BB15497	Lead, Total	mg/L	0.000005	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15497	Molybdenum, Total	mg/L	0.0000094	0.000147	0.100	0.102	0.104	0.101	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BB15497	Antimony, Total	mg/L	0.000113	0.00100	0.100	0.0993	0.102	0.0953	0.0850 to 0.115	99.3	70.0 to 130	2.68	20.0
BB15497	Selenium, Total	mg/L	0.0000321	0.00100	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BB15497	Potassium, Total	mg/L	0.00958	0.367	10.0	10.5	10.9	10.4	8.50 to 11.5	97.6	70.0 to 130	3.74	20.0
BB15497	Cobalt, Total	mg/L	-0.0000049	0.000147	0.100	0.104	0.108	0.107	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BB15497	Manganese, Dissolved	mg/L	0.0000294	0.000147	0.100	0.108	0.105	0.105	0.0850 to 0.115	103	70.0 to 130	2.82	20.0
BB15497	Calcium, Total	mg/L	-0.00148	0.152	5.00	5.75	5.75	5.07	4.25 to 5.75	101	70.0 to 130	0.00	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/18/21 13:00

Customer ID:

Delivery Date: 8/19/21 11:54

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BB15497

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15497	Chloride	mg/L	0.0104	1.00	10.0	14.1	4.41	9.79	9.00 to 11.0	96.4	80.0 to 120	1.13	20.0
BB15497	Fluoride	mg/L	0.0404	0.100	2.50	2.48	0.019	2.55	2.25 to 2.75	99.2	80.0 to 120	0.00	20.0
BB15497	Sulfate	mg/L	-0.140	1.00	20.0	18.9	0.669	18.5	18.0 to 22.0	90.7	80.0 to 120	11.9	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-2

Location Code: WMWGREAPFB
Collected: 8/18/21 13:15
Customer ID:
Submittal Date: 8/19/21 11:54

Laboratory ID Number: BB15498

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 12:40		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	8/25/21 08:48	8/27/21 12:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 12:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 12:40		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	8/25/21 08:48	8/27/21 12:40		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/20/21 10:00	8/20/21 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/25/21 09:28	8/27/21 13:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	8/24/21 12:13	8/24/21 12:13		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	8/25/21 10:36	8/25/21 10:36		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	8/20/21 12:05	8/20/21 12:05		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/18/21 13:15

Customer ID:

Delivery Date: 8/19/21 11:54

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BB15498

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15498	Potassium, Total	mg/L	-0.00164	0.367	10.0	9.98	9.81	10.1	8.50 to 11.5	99.8	70.0 to 130	1.72	20.0
BB15498	Arsenic, Total	mg/L	0.0000239	0.000147	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15498	Manganese, Total	mg/L	0.0000457	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BB15498	Molybdenum, Total	mg/L	0.0000096	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15498	Lead, Total	mg/L	0.0000055	0.000147	0.100	0.102	0.105	0.107	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15498	Antimony, Total	mg/L	0.000132	0.00100	0.100	0.0991	0.0982	0.102	0.0850 to 0.115	99.1	70.0 to 130	0.912	20.0
BB15498	Thallium, Total	mg/L	-0.0000068	0.000147	0.100	0.0991	0.104	0.105	0.0850 to 0.115	99.1	70.0 to 130	4.83	20.0
BB15498	Barium, Total	mg/L	-0.0000194	0.000200	0.100	0.103	0.103	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB15498	Beryllium, Total	mg/L	0.0000752	0.000880	0.100	0.105	0.0996	0.108	0.0850 to 0.115	105	70.0 to 130	5.28	20.0
BB15498	Chromium, Total	mg/L	-0.000106	0.000440	0.100	0.104	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BB15498	Selenium, Total	mg/L	0.0000424	0.00100	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15498	Cobalt, Total	mg/L	-0.0000028	0.000147	0.100	0.104	0.103	0.106	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BB15498	Cadmium, Total	mg/L	0.000006	0.000147	0.100	0.0987	0.101	0.104	0.0850 to 0.115	98.7	70.0 to 130	2.30	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/18/21 13:15

Customer ID:

Delivery Date: 8/19/21 11:54

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BB15498

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15498	Chloride	mg/L	0.0184	1.00	10.0	9.69	0.103	9.84	9.00 to 11.0	96.9	80.0 to 120	0.00	20.0
BB15498	Sulfate	mg/L	0.372	1.00	20.0	19.0	0.217	18.3	18.0 to 22.0	95.0	80.0 to 120	0.00	20.0
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15492	Solids, Dissolved	mg/L	0.0000	25.0			734	52.0	40.0 to 60.0			0.273	5.00

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 8/23/21 12:01
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15775

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 12:44		1.015	7.11	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 12:44		1.015	0.0118	mg/L	0.008120	0.0406	J
* Lithium, Total	8/25/21 08:48	8/27/21 12:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 12:44		1.015	1.23	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 12:44		1.015	5.89	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:38		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 10:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 10:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/30/21 11:00	9/1/21 10:19		1.015	0.0317	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 10:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 10:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 10:19		1.015	0.000418	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 10:19		1.015	0.000603	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 10:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 10:19		1.015	1.07	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 10:19		1.015	0.00888	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 10:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 10:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Manganese, Dissolved	8/25/21 13:05	8/25/21 14:52		1.015	0.00676	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB			Preparation Method: EPA 1638				
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB			Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	21.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW			Preparation Method: EPA 1638				
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	49.3	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP

Collected: 8/23/21 12:01

Customer ID:

Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15775

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	21.7	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:04	8/26/21 14:04		1	6.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:38	8/25/21 10:38		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 09:52	8/31/21 09:52		1	4.00	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/23/21 11:57	8/23/21 11:57			72.14	uS/cm			FA
pH	8/23/21 11:57	8/23/21 11:57			5.67	SU			FA
Temperature	8/23/21 11:57	8/23/21 11:57			20.18	C			FA
Turbidity	8/23/21 11:57	8/23/21 11:57			1.1	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 12:01

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BB15775

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15784	Barium, Total	mg/L	0.000000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.000000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 12:01

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BB15775

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 8/23/21 13:02
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15776

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:47		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 12:47		1.015	2.16	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 12:47		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 12:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 12:47		1.015	2.81	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 12:47		1.015	7.49	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 13:41		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 10:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 10:23		1.015	0.000192	mg/L	0.000068	0.000203	J
* Barium, Total	8/30/21 11:00	9/1/21 10:23		1.015	0.0764	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 10:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 10:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 10:23		1.015	0.000384	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 10:23		1.015	0.00105	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 10:23		1.015	0.000150	mg/L	0.000068	0.000203	J
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 10:23		1.015	3.56	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 10:23		1.015	0.0184	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 10:23		1.015	0.000592	mg/L	0.000508	0.001015	J
* Thallium, Total	8/30/21 11:00	9/1/21 10:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 14:56		1.015	0.0170	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ABB							
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	Not Detected	mg/L		0.1	U
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	64.7	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 8/23/21 13:02
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15776

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	Not Detected	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	Not Detected	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:05	8/26/21 14:05		1	5.61	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:39	8/25/21 10:39		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 09:53	8/31/21 09:53		1	9.18	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/23/21 12:59	8/23/21 12:59			96.04	uS/cm			FA
pH	8/23/21 12:59	8/23/21 12:59			4.17	SU			FA
Temperature	8/23/21 12:59	8/23/21 12:59			19.94	C			FA
Turbidity	8/23/21 12:59	8/23/21 12:59			0.68	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 13:02

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BB15776

Sample	Analysis	Units	MB					Standard		Rec			Prec
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0
BB15776	Iron, Dissolved	mg/L	0.000136	0.0176	0.2	0.211	0.210	0.212	0.170 to 0.230	106	70.0 to 130	0.475	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 13:02

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BB15776

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32 DUP

Location Code: WMWGREAP
Collected: 8/23/21 13:02
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15777

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 12:50		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	8/25/21 08:48	8/27/21 12:50		1.015	2.15	mg/L	0.070035	0.406		
* Iron, Total	8/25/21 08:48	8/27/21 12:50		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	8/25/21 08:48	8/27/21 12:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	8/25/21 08:48	8/27/21 12:50		1.015	2.81	mg/L	0.021315	0.406		
* Sodium, Total	8/25/21 08:48	8/27/21 12:50		1.015	7.43	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/2/21 11:07	9/2/21 14:05		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	8/30/21 11:00	9/1/21 10:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	8/30/21 11:00	9/1/21 10:26		1.015	0.000176	mg/L	0.000068	0.000203	J	
* Barium, Total	8/30/21 11:00	9/1/21 10:26		1.015	0.0781	mg/L	0.000102	0.000203		
* Beryllium, Total	8/30/21 11:00	9/1/21 10:26		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	8/30/21 11:00	9/1/21 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	8/30/21 11:00	9/1/21 10:26		1.015	0.000385	mg/L	0.000203	0.001015	J	
* Cobalt, Total	8/30/21 11:00	9/1/21 10:26		1.015	0.00101	mg/L	0.000068	0.000203		
* Lead, Total	8/30/21 11:00	9/1/21 10:26		1.015	0.000173	mg/L	0.000068	0.000203	J	
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	8/30/21 11:00	9/1/21 10:26		1.015	3.49	mg/L	0.169505	0.5075		
* Manganese, Total	8/30/21 11:00	9/1/21 10:26		1.015	0.0187	mg/L	0.000068	0.000203		
* Selenium, Total	8/30/21 11:00	9/1/21 10:26		1.015	0.000576	mg/L	0.000508	0.001015	J	
* Thallium, Total	8/30/21 11:00	9/1/21 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: ABB								
* Manganese, Dissolved	8/25/21 13:05	8/25/21 14:59		1.015	0.0173	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:48		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ABB								
Alkalinity, Total as CaCO3	8/31/21 11:23	8/31/21 14:47		1	Not Detected	mg/L		0.1	U	
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	59.3	mg/L		25		

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32 DUP

Location Code: WMWGREAP
Collected: 8/23/21 13:02
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15777

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ABB							
Bicarbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	Not Detected	mg/L			
Carbonate Alkalinity, (calc.)	8/31/21 11:23	8/31/21 14:47		1	Not Detected	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:07	8/26/21 14:07		1	5.55	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:40	8/25/21 10:40		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 09:54	8/31/21 09:54		1	9.30	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/23/21 12:59	8/23/21 12:59			96.04	uS/cm			FA
pH	8/23/21 12:59	8/23/21 12:59			4.17	SU			FA
Temperature	8/23/21 12:59	8/23/21 12:59			19.94	C			FA
Turbidity	8/23/21 12:59	8/23/21 12:59			0.68	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 13:02

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: BB15777

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 13:02

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-32 DUP

Laboratory ID Number: BB15777

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15777	Alkalinity, Total as CaCO3	mg/L					-0.200	48.9	45.0 to 55.0			0.00	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 8/23/21 14:15
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15778

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 12:54		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 12:54		1.015	9.48	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 12:54		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 12:54		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 12:54		1.015	0.676	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 12:54		1.015	3.65	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 14:08		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/30/21 11:00	9/1/21 10:30		1.015	0.0141	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 10:30		1.015	0.000502	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 10:30		1.015	0.684	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 10:30		1.015	0.000134	mg/L	0.000068	0.000203	J
* Selenium, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 15:03		1.015	0.000142	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	25.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	48.7	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP

Collected: 8/23/21 14:15

Customer ID:

Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15778

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	25.2	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 14:08	8/26/21 14:08		1	4.33	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:41	8/25/21 10:41		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 09:55	8/31/21 09:55		1	2.44	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/23/21 14:12	8/23/21 14:12			69.08	uS/cm			FA
pH	8/23/21 14:12	8/23/21 14:12			6.04	SU			FA
Temperature	8/23/21 14:12	8/23/21 14:12			22.46	C			FA
Turbidity	8/23/21 14:12	8/23/21 14:12			0.47	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 14:15

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BB15778

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 14:15

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BB15778

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33 DUP

Location Code: WMWGREAP
Collected: 8/23/21 14:15
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15779

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 12:57		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	8/25/21 08:48	8/27/21 12:57		1.015	9.53	mg/L	0.070035	0.406		
* Iron, Total	8/25/21 08:48	8/27/21 12:57		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	8/25/21 08:48	8/27/21 12:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	8/25/21 08:48	8/27/21 12:57		1.015	0.676	mg/L	0.021315	0.406		
* Sodium, Total	8/25/21 08:48	8/27/21 12:57		1.015	3.66	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/2/21 11:07	9/2/21 14:12		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Barium, Total	8/30/21 11:00	9/1/21 10:33		1.015	0.0146	mg/L	0.000102	0.000203		
* Beryllium, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	8/30/21 11:00	9/1/21 10:33		1.015	0.000497	mg/L	0.000203	0.001015	J	
* Cobalt, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	8/30/21 11:00	9/1/21 10:33		1.015	0.704	mg/L	0.169505	0.5075		
* Manganese, Total	8/30/21 11:00	9/1/21 10:33		1.015	0.000144	mg/L	0.000068	0.000203	J	
* Selenium, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	8/30/21 11:00	9/1/21 10:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: ABB								
* Manganese, Dissolved	8/25/21 13:05	8/25/21 15:06		1.015	0.000145	mg/L	0.000068	0.000203	J	
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 21:56		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ELH								
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	24.8	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	50.7	mg/L		25		

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33 DUP

Location Code: WMWGREAP
Collected: 8/23/21 14:15
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15779

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	24.8	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 14:09	8/26/21 14:09		1	4.38	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:42	8/25/21 10:42		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 09:56	8/31/21 09:56		1	2.00	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/23/21 14:12	8/23/21 14:12			69.08	uS/cm			FA
pH	8/23/21 14:12	8/23/21 14:12			6.04	SU			FA
Temperature	8/23/21 14:12	8/23/21 14:12			22.46	C			FA
Turbidity	8/23/21 14:12	8/23/21 14:12			0.47	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 14:15

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-33 DUP

Laboratory ID Number: BB15779

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 14:15

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-33 DUP

Laboratory ID Number: BB15779

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 8/23/21 15:26
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15780

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:01		1.015	0.628	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:31		20.3	87.6	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:31		20.3	28.2	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 13:01		1.015	0.116	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 13:01		1.015	17.6	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 13:01		1.015	24.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:11		101.5	31.4	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 10:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 10:37		1.015	0.368	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 10:37		1.015	0.139	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 10:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 10:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 10:37		1.015	0.000272	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 10:37		1.015	0.00645	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 10:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:37		1.015	0.00310	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 10:37		1.015	6.33	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 13:50		5.075	2.01	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 10:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 10:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 16:52		5.075	1.78	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	213	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	481	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP

Collected: 8/23/21 15:26

Customer ID:

Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15780

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	213	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.14	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:10	8/26/21 14:10		1	11.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:44	8/25/21 10:44		1	0.322	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 09:58	8/31/21 09:58		8	155	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/23/21 15:23	8/23/21 15:23			752.86	uS/cm			FA
pH	8/23/21 15:23	8/23/21 15:23			6.50	SU			FA
Temperature	8/23/21 15:23	8/23/21 15:23			22.02	C			FA
Turbidity	8/23/21 15:23	8/23/21 15:23			1.41	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 15:26

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BB15780

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 15:26

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BB15780

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 8/23/21 16:21
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15781

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 13:04		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	8/25/21 08:48	8/27/21 13:04		1.015	11.1	mg/L	0.070035	0.406		
* Iron, Total	8/25/21 08:48	8/27/21 13:04		1.015	0.0207	mg/L	0.008120	0.0406	J	
* Lithium, Total	8/25/21 08:48	8/27/21 13:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	8/25/21 08:48	8/27/21 13:04		1.015	1.59	mg/L	0.021315	0.406		
* Sodium, Total	8/25/21 08:48	8/27/21 13:04		1.015	14.5	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/2/21 11:07	9/2/21 14:18		1.015	0.0149	mg/L	0.008120	0.0406	J	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	8/30/21 11:00	9/1/21 10:40		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	8/30/21 11:00	9/1/21 10:40		1.015	0.000420	mg/L	0.000068	0.000203		
* Barium, Total	8/30/21 11:00	9/1/21 10:40		1.015	0.0478	mg/L	0.000102	0.000203		
* Beryllium, Total	8/30/21 11:00	9/1/21 10:40		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	8/30/21 11:00	9/1/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	8/30/21 11:00	9/1/21 10:40		1.015	0.000298	mg/L	0.000203	0.001015	J	
* Cobalt, Total	8/30/21 11:00	9/1/21 10:40		1.015	0.00159	mg/L	0.000068	0.000203		
* Lead, Total	8/30/21 11:00	9/1/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Potassium, Total	8/30/21 11:00	9/1/21 10:40		1.015	0.990	mg/L	0.169505	0.5075		
* Manganese, Total	8/30/21 11:00	9/1/21 10:40		1.015	0.00447	mg/L	0.000068	0.000203		
* Selenium, Total	8/30/21 11:00	9/1/21 10:40		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	8/30/21 11:00	9/1/21 10:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: ABB								
* Manganese, Dissolved	8/25/21 13:05	8/25/21 15:14		1.015	0.00365	mg/L	0.000068	0.000203		
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:04		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ELH								
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	27.6	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	89.3	mg/L		25		

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 8/23/21 16:21
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15781

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	27.6	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:11	8/26/21 14:11		1	4.36	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:45	8/25/21 10:45		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 09:59	8/31/21 09:59		1	24.8	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/23/21 16:18	8/23/21 16:18			136.63	uS/cm			FA
pH	8/23/21 16:18	8/23/21 16:18			5.54	SU			FA
Temperature	8/23/21 16:18	8/23/21 16:18			22.70	C			FA
Turbidity	8/23/21 16:18	8/23/21 16:18			1.04	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 16:21

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BB15781

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB15781	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00396	0.00398	0.00392	0.00340 to 0.00460	99.0	70.0 to 130	0.504	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 16:21

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BB15781

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 8/24/21 10:35
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15782

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:07		1.015	1.36	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:35		101.5	129	mg/L	7.0035	40.6	
* Iron, Total	8/25/21 08:48	8/27/21 13:07		1.015	0.858	mg/L	0.008120	0.0406	
* Lithium, Total	8/25/21 08:48	8/27/21 13:07		1.015	0.00951	mg/L	0.007105	0.01999956	J
* Magnesium, Total	8/25/21 08:48	8/27/21 13:07		1.015	27.4	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/31/21 12:35		101.5	108	mg/L	3.045	40.6	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 14:22		1.015	0.888	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 10:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 10:44		1.015	0.000279	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 10:44		1.015	0.0737	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 10:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 10:44		1.015	0.000181	mg/L	0.000068	0.000203	J
* Chromium, Total	8/30/21 11:00	9/1/21 10:44		1.015	0.000262	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 10:44		1.015	0.00419	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 10:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:44		1.015	0.00211	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 10:44		1.015	0.895	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 13:54		5.075	1.69	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 10:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 10:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 16:55		5.075	1.52	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	357	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	792	mg/L		50	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 8/24/21 10:35
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15782

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	357	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.14	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 14:19	8/26/21 14:19		8	56.6	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:46	8/25/21 10:46		1	0.161	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:00	8/31/21 10:00		16	210	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/24/21 10:32	8/24/21 10:32			1186.60	uS/cm			FA
pH	8/24/21 10:32	8/24/21 10:32			6.22	SU			FA
Temperature	8/24/21 10:32	8/24/21 10:32			20.92	C			FA
Turbidity	8/24/21 10:32	8/24/21 10:32			0.65	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 10:35

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BB15782

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 10:35

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BB15782

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 8/24/21 11:21
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15783

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:11		1.015	0.216	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:39		101.5	123	mg/L	7.0035	40.6	RA
* Iron, Total	8/25/21 08:48	8/27/21 13:11		1.015	0.0856	mg/L	0.008120	0.0406	
* Lithium, Total	8/25/21 08:48	8/27/21 13:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 13:11		1.015	17.2	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/31/21 12:39		101.5	183	mg/L	3.045	40.6	RA
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 14:25		1.015	0.0845	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 10:48		1.015	0.000747	mg/L	0.000508	0.001015	J
* Arsenic, Total	8/30/21 11:00	9/1/21 10:48		1.015	0.0000991	mg/L	0.000068	0.000203	J
* Barium, Total	8/30/21 11:00	9/1/21 10:48		1.015	0.0782	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 10:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 10:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 10:48		1.015	0.000363	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 10:48		1.015	0.00333	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 10:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:48		1.015	0.000128	mg/L	0.000068	0.000203	J
* Potassium, Total	8/30/21 11:00	9/1/21 10:48		1.015	0.786	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 10:48		1.015	0.736	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 10:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 10:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 15:21		1.015	0.689	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	403	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	930	mg/L		83.3	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 8/24/21 11:21
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15783

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	403	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.22	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 14:20	8/26/21 14:20		8	91.7	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:47	8/25/21 10:47		1	0.100	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:01	8/31/21 10:01		16	234	mg/L	8.00	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/24/21 11:17	8/24/21 11:17			1277.72	uS/cm			FA
pH	8/24/21 11:17	8/24/21 11:17			6.40	SU			FA
Temperature	8/24/21 11:17	8/24/21 11:17			20.33	C			FA
Turbidity	8/24/21 11:17	8/24/21 11:17			0.42	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/24/21 11:21
Customer ID:
Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BB15783

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15783	Sodium, Total	mg/L	0.000719	0.0660	5.00	183	185	4.98	4.25 to 5.75	0.00	70.0 to 130	1.09	20.0
BB15783	Iron, Total	mg/L	0.000152	0.0176	0.2	0.284	0.285	0.210	0.170 to 0.230	99.2	70.0 to 130	0.351	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15783	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.245	0.246	0.200	0.170 to 0.230	122	70.0 to 130	0.407	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB15783	Magnesium, Total	mg/L	0.00202	0.0462	5.00	22.2	22.1	5.12	4.25 to 5.75	100	70.0 to 130	0.451	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15783	Boron, Total	mg/L	0.000524	0.0650	1.00	1.25	1.26	1.02	0.850 to 1.15	103	70.0 to 130	0.797	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15783	Calcium, Total	mg/L	0.00165	0.152	5.00	124	126	5.12	4.25 to 5.75	20.0	70.0 to 130	1.60	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 11:21

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BB15783

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15783	Fluoride	mg/L	0.00873	0.100	2.50	2.75	0.0957	2.56	2.25 to 2.75	106	80.0 to 120	4.39	20.0
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 8/23/21 12:28
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15784

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:28		1.015	0.208	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:49		20.3	138	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:49		20.3	9.70	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 13:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 13:28		1.015	20.6	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 13:28		1.015	30.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:14		10.15	10.0	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 10:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 10:51		1.015	0.00263	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 10:51		1.015	0.0596	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 10:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 10:51		1.015	0.000320	mg/L	0.000068	0.000203	
* Chromium, Total	8/30/21 11:00	9/1/21 10:51		1.015	0.000302	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 10:51		1.015	0.428	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 10:51		1.015	0.000182	mg/L	0.000068	0.000203	J
* Potassium, Total	8/30/21 11:00	9/1/21 10:51		1.015	3.02	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 13:57		10.15	10.7	mg/L	0.000680	0.00203	RA
* Selenium, Total	8/30/21 11:00	9/1/21 10:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 16:59		10.15	10.2	mg/L	0.000680	0.00203	RA
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	89.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	714	mg/L		50	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 8/23/21 12:28
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15784

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	89.3	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.02	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 14:15	8/26/21 14:15		1	13.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 10:58	8/25/21 10:58		1	0.110	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:02	8/31/21 10:02		25	406	mg/L	12.50	25	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/23/21 12:24	8/23/21 12:24			913.04	uS/cm			FA
pH	8/23/21 12:24	8/23/21 12:24			6.07	SU			FA
Temperature	8/23/21 12:24	8/23/21 12:24			19.88	C			FA
Turbidity	8/23/21 12:24	8/23/21 12:24			3.63	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 12:28

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BB15784

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB15784	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.100	0.0997	0.103	0.0850 to 0.115	100	70.0 to 130	0.300	20.0
BB15784	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB15784	Barium, Total	mg/L	0.00000	0.000200	0.100	0.166	0.169	0.109	0.0850 to 0.115	106	70.0 to 130	1.79	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB15784	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.0987	0.100	0.101	0.0850 to 0.115	98.4	70.0 to 130	1.31	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB15784	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	10.5	10.8	0.108	0.0850 to 0.115	-200	70.0 to 130	2.82	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB15784	Potassium, Total	mg/L	-0.00152	0.367	10.0	13.0	12.8	9.98	8.50 to 11.5	99.8	70.0 to 130	1.55	20.0
BB15784	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	10.4	10.6	0.0983	0.0850 to 0.115	200	70.0 to 130	1.90	20.0
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB15784	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.948	20.0
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB15784	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BB15784	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.101	0.0996	0.100	0.0850 to 0.115	101	70.0 to 130	1.40	20.0
BB15784	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.0984	0.100	0.103	0.0850 to 0.115	98.2	70.0 to 130	1.61	20.0
BB15784	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.109	0.105	0.107	0.0850 to 0.115	109	70.0 to 130	3.74	20.0
BB15784	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.525	0.515	0.109	0.0850 to 0.115	97.0	70.0 to 130	1.92	20.0
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB15784	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.107	0.113	0.105	0.0850 to 0.115	107	70.0 to 130	5.45	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 12:28

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BB15784

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15784	Sulfate	mg/L	-0.101	1.00	500	922	401	18.7	18.0 to 22.0	103	80.0 to 120	1.24	20.0
BB15784	Solids, Dissolved	mg/L	1.00	25.0			712	54.0	40.0 to 60.0			0.140	5.00
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0
BB15784	Chloride	mg/L	0.0136	1.00	10.0	22.5	12.7	10.0	9.00 to 11.0	94.0	80.0 to 120	3.10	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP
Collected: 8/23/21 13:25
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15785

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:31		1.015	0.211	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:53		20.3	41.4	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:53		20.3	33.9	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 13:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 13:31		1.015	12.7	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 13:31		1.015	17.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:17		101.5	34.6	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:13		1.015	0.0290	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 11:13		1.015	0.0840	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 11:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 11:13		1.015	0.000289	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:13		1.015	0.0477	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 11:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:13		1.015	0.000892	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 11:13		1.015	4.74	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:08		5.075	2.23	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 11:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 11:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 17:13		5.075	2.03	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	104	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	301	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP

Collected: 8/23/21 13:25

Customer ID:

Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15785

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	104	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.02	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:30	8/26/21 14:30		1	8.41	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 11:00	8/25/21 11:00		1	0.244	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:15	8/31/21 10:15		8	117	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/23/21 13:20	8/23/21 13:20			481.16	uS/cm			FA
pH	8/23/21 13:20	8/23/21 13:20			6.34	SU			FA
Temperature	8/23/21 13:20	8/23/21 13:20			20.84	C			FA
Turbidity	8/23/21 13:20	8/23/21 13:20			1.18	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 13:25

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BB15785

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB15792	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	0.102	0.0986	0.0983	0.0850 to 0.115	102	70.0 to 130	3.39	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 13:25

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BB15785

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP
Collected: 8/23/21 14:30
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15786

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:34		1.015	0.458	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:56		20.3	78.2	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:56		20.3	41.1	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 13:34		1.015	0.0805	mg/L	0.007105	0.01999956	
* Magnesium, Total	8/25/21 08:48	8/27/21 13:34		1.015	18.0	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 13:34		1.015	17.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:21		101.5	41.3	mg/L	0.8120	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:16		1.015	0.454	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 11:16		1.015	0.200	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 11:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 11:16		1.015	0.000388	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:16		1.015	0.0310	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 11:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:16		1.015	0.00312	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 11:16		1.015	6.02	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:11		5.075	1.76	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 11:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 11:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 17:17		5.075	1.63	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	208	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	405	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP

Collected: 8/23/21 14:30

Customer ID:

Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15786

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	208	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.10	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:32	8/26/21 14:32		1	6.89	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 11:01	8/25/21 11:01		1	0.328	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:17	8/31/21 10:17		8	106	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/23/21 14:27	8/23/21 14:27			652.75	uS/cm			FA
pH	8/23/21 14:27	8/23/21 14:27			6.67	SU			FA
Temperature	8/23/21 14:27	8/23/21 14:27			21.40	C			FA
Turbidity	8/23/21 14:27	8/23/21 14:27			4.21	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 14:30

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BB15786

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB15792	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	0.102	0.0986	0.0983	0.0850 to 0.115	102	70.0 to 130	3.39	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB15786	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	41.2	40.4	0.212	0.170 to 0.230	-50.0	70.0 to 130	1.96	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 14:30

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BB15786

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP
Collected: 8/23/21 15:30
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15787

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:38		1.015	0.517	mg/L	0.030000	0.1015	
* Calcium, Total	8/25/21 08:48	8/31/21 12:59		20.3	79.2	mg/L	1.4007	8.12	
* Iron, Total	8/25/21 08:48	8/31/21 12:59		20.3	69.3	mg/L	0.1624	0.812	
* Lithium, Total	8/25/21 08:48	8/27/21 13:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 13:38		1.015	9.81	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 13:38		1.015	30.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:31		101.5	72.0	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:20		1.015	0.225	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 11:20		1.015	0.377	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 11:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 11:20		1.015	0.000456	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:20		1.015	0.0233	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:20		1.015	0.00142	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 11:20		1.015	4.66	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:15		5.075	2.93	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 11:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 17:20		5.075	2.78	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	317	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	390	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP
Collected: 8/23/21 15:30
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15787

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	317	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.13	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:42	8/26/21 14:42		2	21.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 11:02	8/25/21 11:02		1	0.245	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:18	8/31/21 10:18		1	11.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/23/21 15:27	8/23/21 15:27			734.45	uS/cm			FA
pH	8/23/21 15:27	8/23/21 15:27			6.33	SU			FA
Temperature	8/23/21 15:27	8/23/21 15:27			22.32	C			FA
Turbidity	8/23/21 15:27	8/23/21 15:27			2.93	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 15:30

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BB15787

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB15792	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	0.102	0.0986	0.0983	0.0850 to 0.115	102	70.0 to 130	3.39	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/23/21 15:30

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BB15787

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-5

Location Code: WMWGREAPFB
Collected: 8/23/21 16:00
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15788

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:41		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 13:41		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	8/25/21 08:48	8/27/21 13:41		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 13:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 13:41		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	8/25/21 08:48	8/27/21 13:41		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 11:23		1.015	0.000238	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 11:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	8/26/21 14:34	8/26/21 14:34		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	8/25/21 11:03	8/25/21 11:03		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	8/31/21 10:24	8/31/21 10:24		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/23/21 16:00

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BB15788

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/23/21 16:00

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BB15788

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP
Collected: 8/24/21 08:55
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15789

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:45		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 13:45		1.015	21.0	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 13:45		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	8/25/21 08:48	8/27/21 13:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 13:45		1.015	3.13	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 13:45		1.015	1.76	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 14:59		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:27		1.015	0.000105	mg/L	0.000068	0.000203	J
* Barium, Total	8/30/21 11:00	9/1/21 11:27		1.015	0.0336	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 11:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 11:27		1.015	0.000753	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/30/21 11:00	9/1/21 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 11:27		1.015	1.30	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 11:27		1.015	0.0000907	mg/L	0.000068	0.000203	J
* Selenium, Total	8/30/21 11:00	9/1/21 11:27		1.015	0.00237	mg/L	0.000508	0.001015	
* Thallium, Total	8/30/21 11:00	9/1/21 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 15:56		1.015	0.000182	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 22:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	37.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	94.0	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP

Collected: 8/24/21 08:55

Customer ID:

Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15789

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	37.2	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.01	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:35	8/26/21 14:35		1	2.79	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 11:04	8/25/21 11:04		1	0.0681	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:19	8/31/21 10:19		1	22.9	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/24/21 08:50	8/24/21 08:50			142.42	uS/cm			FA
pH	8/24/21 08:50	8/24/21 08:50			6.08	SU			FA
Temperature	8/24/21 08:50	8/24/21 08:50			20.79	C			FA
Turbidity	8/24/21 08:50	8/24/21 08:50			0	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 08:55

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BB15789

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB15792	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	0.102	0.0986	0.0983	0.0850 to 0.115	102	70.0 to 130	3.39	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 08:55

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BB15789

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 8/24/21 09:45
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15790

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:48		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 13:48		1.015	36.5	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 13:48		1.015	0.0519	mg/L	0.008120	0.0406	
* Lithium, Total	8/25/21 08:48	8/27/21 13:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 13:48		1.015	3.98	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 13:48		1.015	2.56	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:03		1.015	0.0308	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:30		1.015	0.000244	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 11:30		1.015	0.0700	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 11:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 11:30		1.015	0.000339	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:30		1.015	0.000731	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 11:30		1.015	1.39	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 11:30		1.015	0.146	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 11:30		1.015	0.000926	mg/L	0.000508	0.001015	J
* Thallium, Total	8/30/21 11:00	9/1/21 11:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 16:00		1.015	0.131	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	29.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	167	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP

Collected: 8/24/21 09:45

Customer ID:

Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15790

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	29.7	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.00	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 14:36	8/26/21 14:36		1	3.42	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 11:06	8/25/21 11:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:30	8/31/21 10:30		4	81.8	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/24/21 09:43	8/24/21 09:43			235.50	uS/cm			FA
pH	8/24/21 09:43	8/24/21 09:43			5.16	SU			FA
Temperature	8/24/21 09:43	8/24/21 09:43			20.97	C			FA
Turbidity	8/24/21 09:43	8/24/21 09:43			0.06	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 09:45

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BB15790

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB15792	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	0.102	0.0986	0.0983	0.0850 to 0.115	102	70.0 to 130	3.39	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 09:45

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BB15790

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24 DUP

Location Code: WMWGREAP
Collected: 8/24/21 09:45
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15791

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	8/25/21 08:48	8/27/21 13:51		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	8/25/21 08:48	8/27/21 13:51		1.015	36.2	mg/L	0.070035	0.406	
* Iron, Total	8/25/21 08:48	8/27/21 13:51		1.015	0.0479	mg/L	0.008120	0.0406	
* Lithium, Total	8/25/21 08:48	8/27/21 13:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	8/25/21 08:48	8/27/21 13:51		1.015	4.00	mg/L	0.021315	0.406	
* Sodium, Total	8/25/21 08:48	8/27/21 13:51		1.015	2.54	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:06		1.015	0.0275	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:34		1.015	0.000223	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 11:34		1.015	0.0695	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 11:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 11:34		1.015	0.000426	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:34		1.015	0.000699	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 11:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 11:34		1.015	1.40	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 11:34		1.015	0.144	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 11:34		1.015	0.000957	mg/L	0.000508	0.001015	J
* Thallium, Total	8/30/21 11:00	9/1/21 11:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: ABB							
* Manganese, Dissolved	8/25/21 13:05	8/25/21 16:03		1.015	0.133	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	29.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	168	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24 DUP

Location Code: WMWGREAP
Collected: 8/24/21 09:45
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15791

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	29.8	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:38	8/26/21 14:38		1	3.45	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 11:07	8/25/21 11:07		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:31	8/31/21 10:31		4	83.3	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/24/21 09:43	8/24/21 09:43			235.50	uS/cm			FA
pH	8/24/21 09:43	8/24/21 09:43			5.16	SU			FA
Temperature	8/24/21 09:43	8/24/21 09:43			20.97	C			FA
Turbidity	8/24/21 09:43	8/24/21 09:43			0.06	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 09:45

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-24 DUP

Laboratory ID Number: BB15791

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15791	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00392	0.004	0.00393	0.00340 to 0.00460	98.0	70.0 to 130	2.02	20.0
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB15792	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	0.102	0.0986	0.0983	0.0850 to 0.115	102	70.0 to 130	3.39	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 09:45

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-24 DUP

Laboratory ID Number: BB15791

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 8/24/21 10:50
Customer ID:
Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15792

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	8/25/21 08:48	8/27/21 13:55		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	8/25/21 08:48	8/27/21 13:55		1.015	26.3	mg/L	0.070035	0.406		
* Iron, Total	8/25/21 08:48	8/27/21 13:55		1.015	0.0191	mg/L	0.008120	0.0406	J	
* Lithium, Total	8/25/21 08:48	8/27/21 13:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	8/25/21 08:48	8/27/21 13:55		1.015	1.99	mg/L	0.021315	0.406		
* Sodium, Total	8/25/21 08:48	8/27/21 13:55		1.015	2.30	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA								
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:10		1.015	Not Detected	mg/L	0.008120	0.0406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	8/30/21 11:00	9/1/21 11:38		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Arsenic, Total	8/30/21 11:00	9/1/21 11:38		1.015	0.0000736	mg/L	0.000068	0.000203	J	
* Barium, Total	8/30/21 11:00	9/1/21 11:38		1.015	0.0311	mg/L	0.000102	0.000203		
* Beryllium, Total	8/30/21 11:00	9/1/21 11:38		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	8/30/21 11:00	9/1/21 11:38		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	8/30/21 11:00	9/1/21 11:38		1.015	0.000426	mg/L	0.000203	0.001015	J	
* Cobalt, Total	8/30/21 11:00	9/1/21 11:38		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	8/30/21 11:00	9/1/21 11:38		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:38		1.015	0.000167	mg/L	0.000068	0.000203	J	
* Potassium, Total	8/30/21 11:00	9/1/21 11:38		1.015	0.797	mg/L	0.169505	0.5075		
* Manganese, Total	8/30/21 11:00	9/1/21 11:38		1.015	0.000309	mg/L	0.000068	0.000203		
* Selenium, Total	8/30/21 11:00	9/1/21 11:38		1.015	0.00113	mg/L	0.000508	0.001015		
* Thallium, Total	8/30/21 11:00	9/1/21 11:38		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 200.8		Analyst: ABB								
* Manganese, Dissolved	8/25/21 13:05	8/25/21 16:07		1.015	0.000133	mg/L	0.000068	0.000203	J	
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:34		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: SM 2320 B		Analyst: ELH								
Alkalinity, Total as CaCO3	9/2/21 12:20	9/2/21 14:45		1	62.2	mg/L		0.1		
Analytical Method: SM 2540C		Analyst: TJW								
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	96.7	mg/L		25		

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP

Collected: 8/24/21 10:50

Customer ID:

Submittal Date: 8/24/21 16:17

Laboratory ID Number: BB15792

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	62.2	mg/L			
Carbonate Alkalinity, (calc.)	9/2/21 12:20	9/2/21 14:45		1	0.02	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 14:39	8/26/21 14:39		1	1.19	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/25/21 11:08	8/25/21 11:08		1	0.0713	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:23	8/31/21 10:23		1	11.6	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/24/21 10:47	8/24/21 10:47			150.86	uS/cm			FA
pH	8/24/21 10:47	8/24/21 10:47			6.09	SU			FA
Temperature	8/24/21 10:47	8/24/21 10:47			22.10	C			FA
Turbidity	8/24/21 10:47	8/24/21 10:47			0.69	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 10:50

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BB15792

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB15792	Boron, Total	mg/L	0.000524	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB15792	Calcium, Total	mg/L	0.00165	0.152	5.00	31.2	31.2	5.12	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BB15792	Sodium, Total	mg/L	0.000719	0.0660	5.00	7.33	7.37	4.98	4.25 to 5.75	101	70.0 to 130	0.544	20.0
BB15792	Lithium, Total	mg/L	-5.440E-05	0.0154	0.200	0.204	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB15792	Iron, Total	mg/L	0.000152	0.0176	0.2	0.223	0.223	0.210	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB15792	Magnesium, Total	mg/L	0.00202	0.0462	5.00	6.99	7.04	5.12	4.25 to 5.75	100	70.0 to 130	0.713	20.0
BB15792	Manganese, Dissolved	mg/L	0.0000061	0.000147	0.100	0.102	0.0986	0.0983	0.0850 to 0.115	102	70.0 to 130	3.39	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 10:50

Customer ID:

Delivery Date: 8/24/21 16:17

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BB15792

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0
BB15792	Alkalinity, Total as CaCO3	mg/L					61.2	49.7	45.0 to 55.0			1.62	10.0
BB15792	Fluoride	mg/L	0.0106	0.100	2.50	2.69	0.0754	2.55	2.25 to 2.75	105	80.0 to 120	5.59	20.0
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 8/24/21 12:24
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16075

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 10:56		1.015	1.23	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 12:46		10.15	86.4	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 10:56		1.015	0.0621	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 10:56		1.015	0.0155	mg/L	0.007105	0.01999956	J
* Magnesium, Total	9/7/21 12:58	9/13/21 10:56		1.015	17.6	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 12:46		10.15	164	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:13		1.015	0.0598	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:41		1.015	0.000271	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 11:41		1.015	0.122	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 11:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 11:41		1.015	0.000313	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:41		1.015	0.00898	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 11:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 11:41		1.015	0.876	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:19		5.075	2.05	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 11:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 11:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/30/21 10:02	8/31/21 13:59		5.075	1.95	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/3/21 09:35	9/3/21 10:57		1	402	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	690	mg/L		50	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 8/24/21 12:24
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16075

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	402	mg/L			
Carbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	0.12	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 02:54	8/26/21 02:54		8	90.8	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:13	8/27/21 15:13		1	0.141	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:25	8/31/21 10:25		4	71.4	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/24/21 12:21	8/24/21 12:21			1106.83	uS/cm			FA
pH	8/24/21 12:21	8/24/21 12:21			6.16	SU			FA
Temperature	8/24/21 12:21	8/24/21 12:21			20.85	C			FA
Turbidity	8/24/21 12:21	8/24/21 12:21			0.32	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 12:24

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BB16075

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB16076	Thallium, Total	mg/L	-0.0000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB16076	Manganese, Total	mg/L	-0.0000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.0000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 12:24

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BB16075

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00
BB16087	Alkalinity, Total as CaCO3	mg/L					424	50.1	45.0 to 55.0			0.236	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 8/24/21 13:32
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16076

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:00		1.015	0.115	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 11:00		1.015	25.9	mg/L	0.070035	0.406	
* Iron, Total	9/7/21 12:58	9/13/21 11:00		1.015	1.18	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/7/21 12:58	9/13/21 11:00		1.015	8.79	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:00		1.015	33.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:16		1.015	1.34	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 11:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 11:45		1.015	0.000279	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 11:45		1.015	0.0988	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 11:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 11:45		1.015	0.0000904	mg/L	0.000068	0.000203	J
* Chromium, Total	8/30/21 11:00	9/1/21 11:45		1.015	0.000284	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 11:45		1.015	0.0117	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 11:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 11:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 11:45		1.015	0.801	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 11:45		1.015	0.316	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 11:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 11:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/30/21 10:02	8/31/21 12:26		1.015	0.316	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/3/21 09:35	9/3/21 10:57		1	54.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	224	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 8/24/21 13:32
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16076

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	54.8	mg/L			
Carbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	0.00	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 02:55	8/26/21 02:55		4	25.3	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:14	8/27/21 15:14		1	0.0914	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 10:26	8/31/21 10:26		10	66.6	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/24/21 13:29	8/24/21 13:29			318.26	uS/cm			FA
pH	8/24/21 13:29	8/24/21 13:29			5.25	SU			FA
Temperature	8/24/21 13:29	8/24/21 13:29			22.03	C			FA
Turbidity	8/24/21 13:29	8/24/21 13:29			0.48	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 13:32

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BB16076

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0
BB16076	Thallium, Total	mg/L	-0.000484	0.000147	0.100	0.106	0.0997	0.100	0.0850 to 0.115	106	70.0 to 130	6.13	20.0
BB16076	Manganese, Total	mg/L	-0.000236	0.000147	0.100	0.427	0.431	0.108	0.0850 to 0.115	111	70.0 to 130	0.932	20.0
BB16076	Cobalt, Total	mg/L	-0.000595	0.000147	0.100	0.120	0.120	0.109	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16076	Selenium, Total	mg/L	0.0000359	0.00100	0.100	0.101	0.0995	0.103	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BB16076	Barium, Total	mg/L	0.00000	0.000200	0.100	0.208	0.207	0.109	0.0850 to 0.115	109	70.0 to 130	0.482	20.0
BB16076	Arsenic, Total	mg/L	0.0000172	0.000147	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16076	Potassium, Total	mg/L	-0.00152	0.367	10.0	10.7	10.6	9.98	8.50 to 11.5	99.0	70.0 to 130	0.939	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0
BB16076	Beryllium, Total	mg/L	0.0000491	0.000880	0.100	0.108	0.109	0.105	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16076	Lead, Total	mg/L	0.0000044	0.000147	0.100	0.103	0.0990	0.100	0.0850 to 0.115	103	70.0 to 130	3.96	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16076	Antimony, Total	mg/L	0.000173	0.00100	0.100	0.0999	0.100	0.100	0.0850 to 0.115	99.9	70.0 to 130	0.100	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16076	Cadmium, Total	mg/L	-0.000007	0.000147	0.100	0.102	0.0976	0.101	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16076	Molybdenum, Total	mg/L	0.00000	0.000147	0.100	0.102	0.100	0.103	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BB16076	Chromium, Total	mg/L	-0.0000228	0.000440	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 13:32

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BB16076

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16076	Sulfate	mg/L	0.0442	1.00	200	268	66.1	18.6	18.0 to 22.0	101	80.0 to 120	0.754	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0
BB16076	Chloride	mg/L	0.0548	1.00	40.0	66.0	25.5	10.0	9.00 to 11.0	102	80.0 to 120	0.787	20.0
BB16087	Alkalinity, Total as CaCO3	mg/L					424	50.1	45.0 to 55.0			0.236	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 8/24/21 15:02
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16077

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:03		1.015	1.93	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 12:50		10.15	83.4	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 12:50		10.15	32.2	mg/L	0.08120	0.406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:03		1.015	0.198	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:03		1.015	14.7	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:03		1.015	36.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:34		101.5	33.4	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:14		1.015	0.0129	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 12:14		1.015	0.287	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:14		1.015	0.000356	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:14		1.015	0.0514	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 12:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:14		1.015	0.0132	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 12:14		1.015	5.03	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:22		5.075	5.10	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 12:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 12:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:02		5.075	5.12	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: ELH						
Alkalinity, Total as CaCO3	9/3/21 09:35	9/3/21 10:57		1	280	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	423	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 8/24/21 15:02
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16077

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	280	mg/L			
Carbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	0.09	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:22	8/26/21 15:22		2	22.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:15	8/27/21 15:15		1	0.277	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:28	8/31/21 11:28		4	71.6	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/24/21 14:58	8/24/21 14:58			711.33	uS/cm			FA
pH	8/24/21 14:58	8/24/21 14:58			6.04	SU			FA
Temperature	8/24/21 14:58	8/24/21 14:58			19.89	C			FA
Turbidity	8/24/21 14:58	8/24/21 14:58			4.12	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 15:02

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BB16077

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 15:02

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BB16077

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0
BB16087	Alkalinity, Total as CaCO3	mg/L					424	50.1	45.0 to 55.0			0.236	10.0
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 8/24/21 15:47
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16078

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:06		1.015	1.14	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 12:53		10.15	93.1	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 12:53		10.15	12.5	mg/L	0.08120	0.406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:06		1.015	0.0383	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:06		1.015	26.9	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 12:53		10.15	88.5	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:38		101.5	11.5	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:17		1.015	0.00695	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 12:17		1.015	0.168	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:17		1.015	0.000302	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:17		1.015	0.0323	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 12:17		1.015	5.95	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:26		10.15	8.85	mg/L	0.000680	0.00203	
* Selenium, Total	8/30/21 11:00	9/1/21 12:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 12:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:06		10.15	8.52	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/3/21 09:35	9/3/21 10:57		1	267	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	624	mg/L		50	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 8/24/21 15:47
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16078

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	267	mg/L			
Carbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	0.08	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:23	8/26/21 15:23		8	90.7	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:17	8/27/21 15:17		1	0.164	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:30	8/31/21 11:30		8	139	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/24/21 15:43	8/24/21 15:43			959.84	uS/cm			FA
pH	8/24/21 15:43	8/24/21 15:43			6.08	SU			FA
Temperature	8/24/21 15:43	8/24/21 15:43			20.12	C			FA
Turbidity	8/24/21 15:43	8/24/21 15:43			0.58	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 15:47

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BB16078

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 15:47

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BB16078

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0
BB16087	Alkalinity, Total as CaCO3	mg/L					424	50.1	45.0 to 55.0			0.236	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-4

Location Code: WMWGREAPFB
Collected: 8/24/21 16:00
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16079

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:10		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	9/7/21 12:58	9/13/21 11:10		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	9/7/21 12:58	9/13/21 11:10		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	9/7/21 12:58	9/13/21 11:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/7/21 12:58	9/13/21 11:10		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	9/7/21 12:58	9/13/21 11:10		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/30/21 11:00	9/1/21 12:21		1.015	0.000149	mg/L	0.000068	0.000203	J
* Potassium, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 12:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	8/26/21 15:11	8/26/21 15:11		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	8/27/21 15:18	8/27/21 15:18		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	8/31/21 11:31	8/31/21 11:31		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/24/21 16:00

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BB16079

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 8/24/21 16:00

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BB16079

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 8/25/21 09:00
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16080

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:13		1.015	0.601	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 12:56		10.15	57.6	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 11:13		1.015	3.00	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:13		1.015	0.132	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:13		1.015	14.8	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:13		1.015	37.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:27		1.015	3.05	mg/L	0.008120	0.0406	RA
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:25		1.015	0.00518	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 12:25		1.015	0.104	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:25		1.015	0.000267	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:25		1.015	0.0507	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 12:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:25		1.015	0.0106	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 12:25		1.015	7.07	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:40		10.15	10.7	mg/L	0.000680	0.00203	
* Selenium, Total	8/30/21 11:00	9/1/21 12:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 12:25		1.015	0.000094	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:09		10.15	10.3	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	8/27/21 16:30	8/27/21 23:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	171	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	358	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP

Collected: 8/25/21 09:00

Customer ID:

Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16080

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	171	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 15:13	8/26/21 15:13		1	14.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:19	8/27/21 15:19		1	0.135	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:32	8/31/21 11:32		8	126	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/25/21 08:57	8/25/21 08:57			587.09	uS/cm			FA
pH	8/25/21 08:57	8/25/21 08:57			6.38	SU			FA
Temperature	8/25/21 08:57	8/25/21 08:57			21.24	C			FA
Turbidity	8/25/21 08:57	8/25/21 08:57			1.54	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 09:00

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BB16080

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0
BB16080	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	3.18	3.22	0.212	0.170 to 0.230	65.0	70.0 to 130	1.25	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 09:00

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BB16080

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 8/25/21 09:53
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16081

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:17		1.015	0.288	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 11:17		1.015	31.0	mg/L	0.070035	0.406	
* Iron, Total	9/7/21 12:58	9/13/21 11:17		1.015	0.0424	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:17		1.015	0.0872	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:17		1.015	10.5	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:17		1.015	22.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:50		1.015	0.0312	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:28		1.015	0.000143	mg/L	0.000068	0.000203	J
* Barium, Total	8/30/21 11:00	9/1/21 12:28		1.015	0.0865	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:28		1.015	0.000274	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:28		1.015	0.00147	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:28		1.015	0.00789	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 12:28		1.015	5.47	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 12:28		1.015	0.752	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 12:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 12:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 12:40		1.015	0.644	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	8/27/21 16:30	8/28/21 00:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	91.2	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	207	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP

Collected: 8/25/21 09:53

Customer ID:

Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16081

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	91.2	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.03	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:14	8/26/21 15:14		1	10.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:20	8/27/21 15:20		1	0.117	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:33	8/31/21 11:33		4	76.1	mg/L	2.00	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/25/21 09:49	8/25/21 09:49			342.54	uS/cm			FA
pH	8/25/21 09:49	8/25/21 09:49			6.51	SU			FA
Temperature	8/25/21 09:49	8/25/21 09:49			22.69	C			FA
Turbidity	8/25/21 09:49	8/25/21 09:49			1.26	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 09:53

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BB16081

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 09:53

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BB16081

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 8/25/21 10:39
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16082

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:20		1.015	0.393	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:00		10.15	45.2	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 11:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	9/7/21 12:58	9/13/21 11:20		1.015	0.117	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:20		1.015	14.9	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:20		1.015	18.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:54		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:32		1.015	0.000234	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 12:32		1.015	0.0323	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:32		1.015	0.000346	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:32		1.015	0.000938	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:32		1.015	0.0547	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 12:32		1.015	5.26	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:44		5.075	2.76	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 12:32		1.015	0.00281	mg/L	0.000508	0.001015	
* Thallium, Total	8/30/21 11:00	9/1/21 12:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:13		5.075	2.67	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: ABB		Preparation Method: EPA 1638				
* Mercury, Total by CVAA	8/27/21 16:30	8/28/21 00:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG		Preparation Method: EPA 1638				
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	91.8	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW		Preparation Method: EPA 1638				
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	263	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 8/25/21 10:39
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16082

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	91.7	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.12	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:15	8/26/21 15:15		1	7.43	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:21	8/27/21 15:21		1	0.188	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:34	8/31/21 11:34		8	118	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/25/21 10:36	8/25/21 10:36			410.70	uS/cm			FA
pH	8/25/21 10:36	8/25/21 10:36			7.04	SU			FA
Temperature	8/25/21 10:36	8/25/21 10:36			22.24	C			FA
Turbidity	8/25/21 10:36	8/25/21 10:36			1.2	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 10:39

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BB16082

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 10:39

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BB16082

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 8/25/21 11:37
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16083

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:23		1.015	0.438	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:03		10.15	74.2	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 11:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	9/7/21 12:58	9/13/21 11:23		1.015	0.500	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:23		1.015	15.6	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:23		1.015	16.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 15:57		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.00263	mg/L	0.000508	0.001015	
* Arsenic, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.00302	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.114	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.000261	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.0000687	mg/L	0.000068	0.000203	J
* Lead, Total	8/30/21 11:00	9/1/21 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.0319	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 12:35		1.015	7.54	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.325	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.00826	mg/L	0.000508	0.001015	
* Thallium, Total	8/30/21 11:00	9/1/21 12:35		1.015	0.00124	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/30/21 10:02	8/31/21 12:47		1.015	0.312	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	8/27/21 16:30	8/28/21 00:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	88.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	359	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 8/25/21 11:37
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16083

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	87.9	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.06	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:16	8/26/21 15:16		1	6.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:23	8/27/21 15:23		1	0.111	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:36	8/31/21 11:36		10	181	mg/L	5.00	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	8/25/21 11:34	8/25/21 11:34			534.83	uS/cm			FA
pH	8/25/21 11:34	8/25/21 11:34			6.66	SU			FA
Temperature	8/25/21 11:34	8/25/21 11:34			22.61	C			FA
Turbidity	8/25/21 11:34	8/25/21 11:34			1.21	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 11:37

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BB16083

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16083	Mercury, Total by CVAA	mg/L	4.000E-05	0.000500	0.004	0.00397	0.004	0.00395	0.00340 to 0.00460	99.2	70.0 to 130	0.753	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 11:37

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BB16083

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 8/24/21 12:15
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16084

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:27		1.015	0.139	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 11:27		1.015	1.07	mg/L	0.070035	0.406	
* Iron, Total	9/7/21 12:58	9/13/21 11:27		1.015	0.441	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/7/21 12:58	9/13/21 11:27		1.015	0.124	mg/L	0.021315	0.406	J
* Sodium, Total	9/7/21 12:58	9/13/21 13:06		10.15	65.0	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/2/21 16:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:39		1.015	0.00235	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 12:39		1.015	0.00261	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:39		1.015	0.000961	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:39		1.015	0.000321	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 12:39		1.015	0.000306	mg/L	0.000068	0.000203	
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:39		1.015	0.0000867	mg/L	0.000068	0.000203	J
* Potassium, Total	8/30/21 11:00	9/1/21 12:39		1.015	0.507	mg/L	0.169505	0.5075	J
* Manganese, Total	8/30/21 11:00	9/1/21 12:39		1.015	0.00377	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 12:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/30/21 10:02	8/31/21 12:51		1.015	0.00180	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/3/21 09:35	9/3/21 10:57		1	130	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/27/21 14:15	8/31/21 15:35		1	181	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 8/24/21 12:15
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16084

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	129	mg/L			
Carbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	0.70	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:17	8/26/21 15:17		1	2.91	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:24	8/27/21 15:24		1	0.318	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:37	8/31/21 11:37		1	9.79	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/24/21 12:11	8/24/21 12:11			261.80	uS/cm			FA
pH	8/24/21 12:11	8/24/21 12:11			7.06	SU			FA
Temperature	8/24/21 12:11	8/24/21 12:11			22.78	C			FA
Turbidity	8/24/21 12:11	8/24/21 12:11			9.16	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 12:15

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BB16084

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16084	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.19	1.17	1.02	0.850 to 1.15	105	70.0 to 130	1.69	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16084	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.36	5.24	5.21	4.25 to 5.75	105	70.0 to 130	2.26	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0
BB16084	Calcium, Total	mg/L	-0.000645	0.152	5.00	6.24	6.13	5.11	4.25 to 5.75	103	70.0 to 130	1.78	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16084	Iron, Total	mg/L	0.000362	0.0176	0.2	0.680	0.667	0.209	0.170 to 0.230	120	70.0 to 130	1.93	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16084	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.229	0.223	0.205	0.170 to 0.230	114	70.0 to 130	2.65	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16084	Sodium, Total	mg/L	0.000764	0.0660	5.00	70.6	70.2	5.14	4.25 to 5.75	112	70.0 to 130	0.568	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 12:15

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BB16084

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0
BB16075	Solids, Dissolved	mg/L	1.00	25.0			682	54.0	40.0 to 60.0			0.583	5.00
BB16087	Alkalinity, Total as CaCO3	mg/L					424	50.1	45.0 to 55.0			0.236	10.0
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16084	Fluoride	mg/L	0.0188	0.100	2.50	3.04	0.326	2.56	2.25 to 2.75	109	80.0 to 120	2.48	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP
Collected: 8/24/21 13:15
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16085

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:44		1.015	0.179	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:23		101.5	143	mg/L	7.0035	40.6	
* Iron, Total	9/7/21 12:58	9/13/21 13:23		101.5	52.3	mg/L	0.8120	4.06	
* Lithium, Total	9/7/21 12:58	9/13/21 11:44		1.015	0.0112	mg/L	0.007105	0.01999956	J
* Magnesium, Total	9/7/21 12:58	9/13/21 11:44		1.015	24.0	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:44		1.015	29.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:48		101.5	63.8	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:42		1.015	0.00811	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 12:42		1.015	0.0370	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:42		1.015	0.000259	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:42		1.015	0.0228	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:42		1.015	0.000369	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 12:42		1.015	2.17	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:47		5.075	5.28	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:17		5.075	4.98	mg/L	0.000340	0.001015	RA
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: ELH						
Alkalinity, Total as CaCO3	9/3/21 09:35	9/3/21 10:57		1	185	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	742	mg/L		50	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP
Collected: 8/24/21 13:15
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16085

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	185	mg/L			
Carbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	0.04	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:09	8/26/21 15:09		1	9.19	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:35	8/27/21 15:35		1	0.194	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:38	8/31/21 11:38		20	383	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/24/21 13:12	8/24/21 13:12			963.60	uS/cm			FA
pH	8/24/21 13:12	8/24/21 13:12			6.12	SU			FA
Temperature	8/24/21 13:12	8/24/21 13:12			24.79	C			FA
Turbidity	8/24/21 13:12	8/24/21 13:12			1.24	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 13:15

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BB16085

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16085	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	5.06	4.96	0.102	0.0850 to 0.115	80.0	70.0 to 130	2.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 13:15

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BB16085

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0
BB16087	Alkalinity, Total as CaCO3	mg/L					424	50.1	45.0 to 55.0			0.236	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 8/24/21 14:45
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16086

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:47		1.015	0.105	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:27		10.15	109	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 11:47		1.015	0.0599	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/7/21 12:58	9/13/21 11:47		1.015	8.35	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:47		1.015	3.08	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/2/21 16:07		1.015	0.00985	mg/L	0.008120	0.0406	J
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 12:46		1.015	0.000120	mg/L	0.000068	0.000203	J
* Barium, Total	8/30/21 11:00	9/1/21 12:46		1.015	0.0872	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 12:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 12:46		1.015	0.000381	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 12:46		1.015	0.000706	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 12:46		1.015	0.000476	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 12:46		1.015	2.06	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 12:46		1.015	0.0574	mg/L	0.000068	0.000203	
* Selenium, Total	8/30/21 11:00	9/1/21 12:46		1.015	0.0148	mg/L	0.000508	0.001015	
* Thallium, Total	8/30/21 11:00	9/1/21 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 13:16		1.015	0.0586	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: ELH						
Alkalinity, Total as CaCO3	9/3/21 09:35	9/3/21 10:57		1	212	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	345	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 8/24/21 14:45
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16086

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	212	mg/L			
Carbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	0.14	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:19	8/26/21 15:19		1	4.46	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:36	8/27/21 15:36		1	0.197	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:39	8/31/21 11:39		8	68.2	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/24/21 14:42	8/24/21 14:42			510.69	uS/cm			FA
pH	8/24/21 14:42	8/24/21 14:42			5.84	SU			FA
Temperature	8/24/21 14:42	8/24/21 14:42			22.55	C			FA
Turbidity	8/24/21 14:42	8/24/21 14:42			1.2	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 14:45

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BB16086

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16086	Potassium, Total	mg/L	-0.00457	0.367	10.0	11.8	12.1	9.86	8.50 to 11.5	97.4	70.0 to 130	2.51	20.0
BB16092	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	2.70	2.74	0.102	0.0850 to 0.115	50.0	70.0 to 130	1.47	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16086	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.162	0.164	0.106	0.0850 to 0.115	105	70.0 to 130	1.23	20.0
BB16086	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.0987	0.0999	0.107	0.0850 to 0.115	98.7	70.0 to 130	1.21	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16086	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0959	0.0995	0.101	0.0850 to 0.115	95.9	70.0 to 130	3.68	20.0
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16086	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.194	0.193	0.108	0.0850 to 0.115	107	70.0 to 130	0.517	20.0
BB16086	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	107	70.0 to 130	0.922	20.0
BB16086	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.115	0.118	0.101	0.0850 to 0.115	100	70.0 to 130	2.58	20.0
BB16086	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.100	0.102	0.101	0.0850 to 0.115	99.5	70.0 to 130	1.98	20.0
BB16086	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0978	0.0987	0.0986	0.0850 to 0.115	97.8	70.0 to 130	0.916	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16086	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.102	0.101	0.0981	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BB16086	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.0973	0.0988	0.104	0.0850 to 0.115	97.3	70.0 to 130	1.53	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16086	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.107	0.103	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB16086	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.108	0.105	0.0850 to 0.115	106	70.0 to 130	1.87	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 14:45

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BB16086

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16086	Solids, Dissolved	mg/L	-1.00	25.0			346	51.0	40.0 to 60.0			0.145	5.00
BB16086	Sulfate	mg/L	-0.301	1.00	160	245	68.7	19.6	18.0 to 22.0	110	80.0 to 120	0.730	20.0
BB16086	Chloride	mg/L	-0.0131	1.00	10.0	14.6	4.39	10.1	9.00 to 11.0	101	80.0 to 120	1.58	20.0
BB16087	Alkalinity, Total as CaCO3	mg/L					424	50.1	45.0 to 55.0			0.236	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 8/24/21 15:50
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16087

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:50		1.015	2.00	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:30		10.15	115	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 13:30		10.15	29.4	mg/L	0.08120	0.406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:50		1.015	0.470	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:50		1.015	26.3	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:50		1.015	33.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:51		101.5	28.3	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 13:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 13:07		1.015	0.0690	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 13:07		1.015	0.213	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 13:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 13:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 13:07		1.015	0.000327	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 13:07		1.015	0.0183	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 13:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 13:07		1.015	0.00376	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 13:07		1.015	12.6	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:51		5.075	3.71	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 13:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 13:07		1.015	0.000762	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:38		5.075	3.62	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: ELH							
Alkalinity, Total as CaCO3	9/3/21 09:35	9/3/21 10:57		1	425	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	490	mg/L		50	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 8/24/21 15:50
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16087

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: ELH							
Bicarbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	425	mg/L			
Carbonate Alkalinity, (calc.)	9/3/21 09:35	9/3/21 10:57		1	0.17	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:34	8/26/21 15:34		1	7.38	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:38	8/27/21 15:38		1	0.508	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 11:51	8/31/21 11:51		1	34.1	mg/L	0.50	1	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/24/21 15:46	8/24/21 15:46			811.40	uS/cm			FA
pH	8/24/21 15:46	8/24/21 15:46			6.13	SU			FA
Temperature	8/24/21 15:46	8/24/21 15:46			20.29	C			FA
Turbidity	8/24/21 15:46	8/24/21 15:46			2.39	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 15:50

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BB16087

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16092	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	2.70	2.74	0.102	0.0850 to 0.115	50.0	70.0 to 130	1.47	20.0
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16093	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.0996	0.103	0.0850 to 0.115	103	70.0 to 130	3.36	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.101	0.102	0.0981	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16093	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.101	0.0969	0.101	0.0850 to 0.115	101	70.0 to 130	4.14	20.0
BB16093	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0969	0.0992	0.101	0.0850 to 0.115	96.9	70.0 to 130	2.35	20.0
BB16093	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BB16093	Potassium, Total	mg/L	-0.00457	0.367	10.0	9.80	9.88	9.86	8.50 to 11.5	98.0	70.0 to 130	0.813	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16093	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.106	0.109	0.108	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16093	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BB16093	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BB16093	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.101	0.0991	0.104	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16093	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.101	0.102	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16093	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0969	0.0986	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.74	20.0
BB16093	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/24/21 15:50

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BB16087

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16091	Solids, Dissolved	mg/L	-1.00	25.0			764	51.0	40.0 to 60.0			0.650	5.00
BB16093	Chloride	mg/L	0.0241	1.00	10.0	9.91	-0.0343	9.94	9.00 to 11.0	99.1	80.0 to 120	0.00	20.0
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16087	Alkalinity, Total as CaCO3	mg/L					424	50.1	45.0 to 55.0			0.236	10.0
BB16093	Sulfate	mg/L	-0.222	1.00	20.0	19.6	-0.0552	18.7	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 8/25/21 09:25
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16088

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:54		1.015	0.830	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:34		10.15	74.8	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 11:54		1.015	1.64	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:54		1.015	0.622	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:54		1.015	19.1	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:54		1.015	32.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/2/21 16:14		1.015	1.64	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 13:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 13:11		1.015	0.000464	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 13:11		1.015	0.0402	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 13:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 13:11		1.015	0.000142	mg/L	0.000068	0.000203	J
* Chromium, Total	8/30/21 11:00	9/1/21 13:11		1.015	0.000270	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 13:11		1.015	0.0181	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 13:11		1.015	9.66	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:54		5.075	2.42	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 13:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:42		5.075	2.27	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	175	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	407	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 8/25/21 09:25
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16088

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	175	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 15:35	8/26/21 15:35		1	10.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:39	8/27/21 15:39		1	0.167	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 12:02	8/31/21 12:02		8	153	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/25/21 09:21	8/25/21 09:21			592.76	uS/cm			FA
pH	8/25/21 09:21	8/25/21 09:21			6.12	SU			FA
Temperature	8/25/21 09:21	8/25/21 09:21			19.58	C			FA
Turbidity	8/25/21 09:21	8/25/21 09:21			0.16	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 09:25

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BB16088

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16093	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.101	0.0969	0.101	0.0850 to 0.115	101	70.0 to 130	4.14	20.0
BB16093	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0969	0.0992	0.101	0.0850 to 0.115	96.9	70.0 to 130	2.35	20.0
BB16093	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BB16093	Potassium, Total	mg/L	-0.00457	0.367	10.0	9.80	9.88	9.86	8.50 to 11.5	98.0	70.0 to 130	0.813	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16093	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.0996	0.103	0.0850 to 0.115	103	70.0 to 130	3.36	20.0
BB16092	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	2.70	2.74	0.102	0.0850 to 0.115	50.0	70.0 to 130	1.47	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.101	0.102	0.0981	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16093	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.106	0.109	0.108	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16093	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BB16093	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BB16093	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.101	0.0991	0.104	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16093	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.101	0.102	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16093	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0969	0.0986	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.74	20.0
BB16093	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 09:25

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BB16088

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16091	Solids, Dissolved	mg/L	-1.00	25.0			764	51.0	40.0 to 60.0			0.650	5.00
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0
BB16093	Chloride	mg/L	0.0241	1.00	10.0	9.91	-0.0343	9.94	9.00 to 11.0	99.1	80.0 to 120	0.00	20.0
BB16093	Sulfate	mg/L	-0.222	1.00	20.0	19.6	-0.0552	18.7	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15 DUP

Location Code: WMWGREAP
Collected: 8/25/21 09:25
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 11:57		1.015	0.829	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:37		10.15	73.2	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 11:57		1.015	1.48	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 11:57		1.015	0.622	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 11:57		1.015	18.6	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 11:57		1.015	33.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/2/21 16:17		1.015	1.56	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 13:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 13:14		1.015	0.000424	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 13:14		1.015	0.0385	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 13:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 13:14		1.015	0.000100	mg/L	0.000068	0.000203	J
* Chromium, Total	8/30/21 11:00	9/1/21 13:14		1.015	0.000268	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 13:14		1.015	0.0194	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 13:14		1.015	9.80	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 14:58		5.075	2.34	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 13:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 13:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:45		5.075	2.34	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	176	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	403	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15 DUP

Location Code: WMWGREAP
Collected: 8/25/21 09:25
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	176	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 15:37	8/26/21 15:37		1	10.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:40	8/27/21 15:40		1	0.168	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 12:03	8/31/21 12:03		8	152	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/25/21 09:21	8/25/21 09:21			592.76	uS/cm			FA
pH	8/25/21 09:21	8/25/21 09:21			6.12	SU			FA
Temperature	8/25/21 09:21	8/25/21 09:21			19.58	C			FA
Turbidity	8/25/21 09:21	8/25/21 09:21			0.16	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 09:25

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-15 DUP

Laboratory ID Number: BB16089

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB16093	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0969	0.0992	0.101	0.0850 to 0.115	96.9	70.0 to 130	2.35	20.0
BB16093	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BB16093	Potassium, Total	mg/L	-0.00457	0.367	10.0	9.80	9.88	9.86	8.50 to 11.5	98.0	70.0 to 130	0.813	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16093	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.101	0.0969	0.101	0.0850 to 0.115	101	70.0 to 130	4.14	20.0
BB16092	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	2.70	2.74	0.102	0.0850 to 0.115	50.0	70.0 to 130	1.47	20.0
BB16093	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.0996	0.103	0.0850 to 0.115	103	70.0 to 130	3.36	20.0
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.101	0.102	0.0981	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16093	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.101	0.102	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16093	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0969	0.0986	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.74	20.0
BB16093	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BB16093	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.106	0.109	0.108	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16093	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BB16093	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BB16093	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.101	0.0991	0.104	0.0850 to 0.115	101	70.0 to 130	1.90	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 09:25

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-15 DUP

Laboratory ID Number: BB16089

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16093	Chloride	mg/L	0.0241	1.00	10.0	9.91	-0.0343	9.94	9.00 to 11.0	99.1	80.0 to 120	0.00	20.0
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0
BB16093	Sulfate	mg/L	-0.222	1.00	20.0	19.6	-0.0552	18.7	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BB16091	Solids, Dissolved	mg/L	-1.00	25.0			764	51.0	40.0 to 60.0			0.650	5.00

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 8/25/21 10:28
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 12:00		1.015	0.627	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:40		10.15	108	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 12:00		1.015	0.362	mg/L	0.008120	0.0406	
* Lithium, Total	9/7/21 12:58	9/13/21 12:00		1.015	0.734	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 12:00		1.015	28.6	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 12:00		1.015	29.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/2/21 16:21		1.015	0.329	mg/L	0.008120	0.0406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 13:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 13:18		1.015	0.000434	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 13:18		1.015	0.0296	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 13:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 13:18		1.015	0.0000841	mg/L	0.000068	0.000203	J
* Chromium, Total	8/30/21 11:00	9/1/21 13:18		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 13:18		1.015	0.00901	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 13:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 13:18		1.015	10.2	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 15:01		5.075	3.12	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 13:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 13:18		1.015	0.000134	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:49		5.075	3.03	mg/L	0.000340	0.001015	
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	91.2	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	562	mg/L		50	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 8/25/21 10:28
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	91.2	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.02	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 15:38	8/26/21 15:38		1	6.66	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:41	8/27/21 15:41		1	0.142	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 12:05	8/31/21 12:05		20	330	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/25/21 10:24	8/25/21 10:24			756.22	uS/cm			FA
pH	8/25/21 10:24	8/25/21 10:24			5.91	SU			FA
Temperature	8/25/21 10:24	8/25/21 10:24			19.00	C			FA
Turbidity	8/25/21 10:24	8/25/21 10:24			0.43	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 10:28

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BB16090

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16092	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	2.70	2.74	0.102	0.0850 to 0.115	50.0	70.0 to 130	1.47	20.0
BB16093	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.101	0.0969	0.101	0.0850 to 0.115	101	70.0 to 130	4.14	20.0
BB16093	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.0996	0.103	0.0850 to 0.115	103	70.0 to 130	3.36	20.0
BB16093	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.106	0.109	0.108	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16093	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BB16093	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BB16093	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.101	0.0991	0.104	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.101	0.102	0.0981	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16093	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0969	0.0992	0.101	0.0850 to 0.115	96.9	70.0 to 130	2.35	20.0
BB16093	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BB16093	Potassium, Total	mg/L	-0.00457	0.367	10.0	9.80	9.88	9.86	8.50 to 11.5	98.0	70.0 to 130	0.813	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16093	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.101	0.102	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16093	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0969	0.0986	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.74	20.0
BB16093	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16090	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	0.533	0.540	0.207	0.170 to 0.230	102	70.0 to 130	1.30	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 10:28

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BB16090

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16091	Solids, Dissolved	mg/L	-1.00	25.0			764	51.0	40.0 to 60.0			0.650	5.00
BB16093	Chloride	mg/L	0.0241	1.00	10.0	9.91	-0.0343	9.94	9.00 to 11.0	99.1	80.0 to 120	0.00	20.0
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0
BB16093	Sulfate	mg/L	-0.222	1.00	20.0	19.6	-0.0552	18.7	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 8/25/21 11:30
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 12:04		1.015	1.33	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:44		101.5	134	mg/L	7.0035	40.6	
* Iron, Total	9/7/21 12:58	9/13/21 13:44		101.5	64.0	mg/L	0.8120	4.06	
* Lithium, Total	9/7/21 12:58	9/13/21 12:04		1.015	0.985	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 12:04		1.015	32.9	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 12:04		1.015	35.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA							
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:54		101.5	63.8	mg/L	0.8120	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 13:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 13:21		1.015	0.0224	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 13:21		1.015	0.110	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 13:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 13:21		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 13:21		1.015	0.0436	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 13:21		1.015	0.0127	mg/L	0.000068	0.000203	
* Potassium, Total	8/30/21 11:00	9/1/21 13:21		1.015	10.6	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 15:05		10.15	5.97	mg/L	0.000680	0.00203	
* Selenium, Total	8/30/21 11:00	9/1/21 13:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:52		10.15	5.79	mg/L	0.000680	0.00203	
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	273	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: TJW							
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	774	mg/L		50	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 8/25/21 11:30
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	273	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.07	mg/L			
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	8/26/21 15:39	8/26/21 15:39		1	11.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:42	8/27/21 15:42		1	0.239	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 12:06	8/31/21 12:06		20	346	mg/L	10.00	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/25/21 11:25	8/25/21 11:25			1040.25	uS/cm			FA
pH	8/25/21 11:25	8/25/21 11:25			6.21	SU			FA
Temperature	8/25/21 11:25	8/25/21 11:25			20.62	C			FA
Turbidity	8/25/21 11:25	8/25/21 11:25			1.93	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 11:30

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BB16091

Sample	Analysis	Units	MB				MS		Standard		Rec		Prec
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BB16092	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	2.70	2.74	0.102	0.0850 to 0.115	50.0	70.0 to 130	1.47	20.0
BB16093	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.101	0.0969	0.101	0.0850 to 0.115	101	70.0 to 130	4.14	20.0
BB16092	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	6.47	6.45	0.207	0.170 to 0.230	90.0	70.0 to 130	0.310	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.101	0.102	0.0981	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16093	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.0996	0.103	0.0850 to 0.115	103	70.0 to 130	3.36	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16093	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.101	0.102	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16093	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0969	0.0986	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.74	20.0
BB16093	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BB16093	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0969	0.0992	0.101	0.0850 to 0.115	96.9	70.0 to 130	2.35	20.0
BB16093	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BB16093	Potassium, Total	mg/L	-0.00457	0.367	10.0	9.80	9.88	9.86	8.50 to 11.5	98.0	70.0 to 130	0.813	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16093	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.106	0.109	0.108	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16093	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BB16093	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BB16093	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.101	0.0991	0.104	0.0850 to 0.115	101	70.0 to 130	1.90	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 11:30

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BB16091

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BB16091	Solids, Dissolved	mg/L	-1.00	25.0			764	51.0	40.0 to 60.0			0.650	5.00
BB16093	Chloride	mg/L	0.0241	1.00	10.0	9.91	-0.0343	9.94	9.00 to 11.0	99.1	80.0 to 120	0.00	20.0
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0
BB16093	Sulfate	mg/L	-0.222	1.00	20.0	19.6	-0.0552	18.7	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 8/25/21 12:25
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 12:07		1.015	0.632	mg/L	0.030000	0.1015	
* Calcium, Total	9/7/21 12:58	9/13/21 13:47		10.15	78.3	mg/L	0.70035	4.06	
* Iron, Total	9/7/21 12:58	9/13/21 13:47		10.15	6.53	mg/L	0.08120	0.406	
* Lithium, Total	9/7/21 12:58	9/13/21 12:07		1.015	0.0545	mg/L	0.007105	0.01999956	
* Magnesium, Total	9/7/21 12:58	9/13/21 12:07		1.015	8.79	mg/L	0.021315	0.406	
* Sodium, Total	9/7/21 12:58	9/13/21 12:07		1.015	32.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Iron, Dissolved	9/2/21 11:07	9/3/21 12:58		10.15	6.29	mg/L	0.08120	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 13:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 13:25		1.015	0.00182	mg/L	0.000068	0.000203	
* Barium, Total	8/30/21 11:00	9/1/21 13:25		1.015	0.128	mg/L	0.000102	0.000203	
* Beryllium, Total	8/30/21 11:00	9/1/21 13:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 13:25		1.015	0.000392	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 13:25		1.015	0.0101	mg/L	0.000068	0.000203	
* Lead, Total	8/30/21 11:00	9/1/21 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 13:25		1.015	0.0000962	mg/L	0.000068	0.000203	J
* Potassium, Total	8/30/21 11:00	9/1/21 13:25		1.015	5.20	mg/L	0.169505	0.5075	
* Manganese, Total	8/30/21 11:00	9/1/21 15:09		5.075	2.70	mg/L	0.000340	0.001015	
* Selenium, Total	8/30/21 11:00	9/1/21 13:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8			Analyst: DLJ						
* Manganese, Dissolved	8/30/21 10:02	8/31/21 14:56		5.075	2.65	mg/L	0.000340	0.001015	RA
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B			Analyst: JAG						
Alkalinity, Total as CaCO3	9/7/21 13:07	9/7/21 13:47		1	119	mg/L		0.1	
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	376	mg/L		25	

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

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

Certificate Of Analysis

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP

Collected: 8/25/21 12:25

Customer ID:

Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	119	mg/L			
Carbonate Alkalinity, (calc.)	9/7/21 13:07	9/7/21 13:47		1	0.04	mg/L			
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	8/26/21 15:40	8/26/21 15:40		1	14.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	8/27/21 15:44	8/27/21 15:44		1	0.0740	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	8/31/21 12:07	8/31/21 12:07		8	147	mg/L	4.00	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	8/25/21 12:21	8/25/21 12:21			532.38	uS/cm			FA
pH	8/25/21 12:21	8/25/21 12:21			6.13	SU			FA
Temperature	8/25/21 12:21	8/25/21 12:21			21.09	C			FA
Turbidity	8/25/21 12:21	8/25/21 12:21			3.22	NTU			FA

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

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 12:25

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BB16092

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BB16092	Manganese, Dissolved	mg/L	-0.00001	0.000147	0.100	2.70	2.74	0.102	0.0850 to 0.115	50.0	70.0 to 130	1.47	20.0
BB16092	Iron, Dissolved	mg/L	0.00120	0.0176	0.2	6.47	6.45	0.207	0.170 to 0.230	90.0	70.0 to 130	0.310	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.101	0.102	0.0981	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16093	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.106	0.109	0.108	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16093	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BB16093	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BB16093	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.101	0.0991	0.104	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BB16093	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.0996	0.103	0.0850 to 0.115	103	70.0 to 130	3.36	20.0
BB16093	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.101	0.0969	0.101	0.0850 to 0.115	101	70.0 to 130	4.14	20.0
BB16093	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0969	0.0992	0.101	0.0850 to 0.115	96.9	70.0 to 130	2.35	20.0
BB16093	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BB16093	Potassium, Total	mg/L	-0.00457	0.367	10.0	9.80	9.88	9.86	8.50 to 11.5	98.0	70.0 to 130	0.813	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16093	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.101	0.102	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16093	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0969	0.0986	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.74	20.0
BB16093	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	108	70.0 to 130	0.922	20.0

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

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 8/25/21 12:25

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BB16092

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16093	Chloride	mg/L	0.0241	1.00	10.0	9.91	-0.0343	9.94	9.00 to 11.0	99.1	80.0 to 120	0.00	20.0
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16091	Solids, Dissolved	mg/L	-1.00	25.0			764	51.0	40.0 to 60.0			0.650	5.00
BB16093	Sulfate	mg/L	-0.222	1.00	20.0	19.6	-0.0552	18.7	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BB16092	Alkalinity, Total as CaCO3	mg/L					122	52.4	45.0 to 55.0			2.49	10.0

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

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 8/25/21 13:00
Customer ID:
Submittal Date: 8/26/21 11:06

Laboratory ID Number: BB16093

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	9/7/21 12:58	9/13/21 12:11		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	9/7/21 12:58	9/13/21 12:11		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	9/7/21 12:58	9/13/21 12:11		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	9/7/21 12:58	9/13/21 12:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	9/7/21 12:58	9/13/21 12:11		1.015	Not Detected	mg/L	0.021315	0.406	U
* Sodium, Total	9/7/21 12:58	9/13/21 12:11		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Arsenic, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Barium, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	8/30/21 11:00	9/1/21 13:29		1.015	0.000293	mg/L	0.000203	0.001015	J
* Cobalt, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Molybdenum, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Potassium, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	8/30/21 11:00	9/1/21 13:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	9/8/21 07:05	9/8/21 11:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C			Analyst: TJW						
* Solids, Dissolved	8/31/21 12:40	9/2/21 11:30		1	Not Detected	mg/L		25	U
Analytical Method: SM4500CI E			Analyst: JCC						
* Chloride	8/26/21 15:41	8/26/21 15:41		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017			Analyst: JCC						
* Fluoride	8/27/21 15:45	8/27/21 15:45		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011			Analyst: JCC						
* Sulfate	8/31/21 11:59	8/31/21 11:59		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 8/25/21 13:00

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB16093

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BB16093	Magnesium, Total	mg/L	0.000628	0.0462	5.00	5.20	5.13	5.21	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BB16093	Molybdenum, Total	mg/L	0.0000131	0.000147	0.100	0.101	0.0969	0.101	0.0850 to 0.115	101	70.0 to 130	4.14	20.0
BB16093	Lithium, Total	mg/L	-2.960E-05	0.0154	0.200	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BB16093	Arsenic, Total	mg/L	0.0000252	0.000147	0.100	0.101	0.102	0.0981	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Mercury, Total by CVAA	mg/L	2.000E-05	0.000500	0.004	0.00393	0.00382	0.00395	0.00340 to 0.00460	98.2	70.0 to 130	2.84	20.0
BB16093	Barium, Total	mg/L	0.0000224	0.000200	0.100	0.106	0.109	0.108	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BB16093	Boron, Total	mg/L	-0.00502	0.0650	1.00	1.02	1.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BB16093	Manganese, Total	mg/L	0.0000032	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BB16093	Selenium, Total	mg/L	-0.000019	0.00100	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BB16093	Lead, Total	mg/L	0.0000021	0.000147	0.100	0.101	0.0991	0.104	0.0850 to 0.115	101	70.0 to 130	1.90	20.0
BB16093	Cadmium, Total	mg/L	-0.0000009	0.000147	0.100	0.0969	0.0992	0.101	0.0850 to 0.115	96.9	70.0 to 130	2.35	20.0
BB16093	Chromium, Total	mg/L	-0.0000841	0.000440	0.100	0.106	0.105	0.105	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BB16093	Potassium, Total	mg/L	-0.00457	0.367	10.0	9.80	9.88	9.86	8.50 to 11.5	98.0	70.0 to 130	0.813	20.0
BB16093	Iron, Total	mg/L	0.000362	0.0176	0.2	0.209	0.208	0.209	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BB16093	Beryllium, Total	mg/L	0.0000436	0.000880	0.100	0.103	0.0996	0.103	0.0850 to 0.115	103	70.0 to 130	3.36	20.0
BB16093	Calcium, Total	mg/L	-0.000645	0.152	5.00	5.09	5.07	5.11	4.25 to 5.75	102	70.0 to 130	0.394	20.0
BB16093	Thallium, Total	mg/L	-0.0000464	0.000147	0.100	0.101	0.102	0.107	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BB16093	Sodium, Total	mg/L	0.000764	0.0660	5.00	5.13	5.08	5.14	4.25 to 5.75	103	70.0 to 130	0.979	20.0
BB16093	Antimony, Total	mg/L	0.000112	0.00100	0.100	0.0969	0.0986	0.0986	0.0850 to 0.115	96.9	70.0 to 130	1.74	20.0
BB16093	Cobalt, Total	mg/L	-0.000058	0.000147	0.100	0.108	0.109	0.108	0.0850 to 0.115	108	70.0 to 130	0.922	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 8/25/21 13:00

Customer ID:

Delivery Date: 8/26/21 11:06

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BB16093

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BB16093	Fluoride	mg/L	0.0161	0.100	2.50	2.56	0.00439	2.53	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BB16091	Solids, Dissolved	mg/L	-1.00	25.0			764	51.0	40.0 to 60.0			0.650	5.00
BB16093	Sulfate	mg/L	-0.222	1.00	20.0	19.6	-0.0552	18.7	18.0 to 22.0	98.0	80.0 to 120	0.00	20.0
BB16093	Chloride	mg/L	0.0241	1.00	10.0	9.91	-0.0343	9.94	9.00 to 11.0	99.1	80.0 to 120	0.00	20.0

Comments:

Definitions

Project Number: WMWGREAP_1337

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.
HT	Analysis was performed outside of the analytical holding time.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer		
	Jason Arledge			Requested By	Greg Dyer	
	Nick Pitts				Location	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	08/17/2021	08:45	6	Groundwater		BB15376
MW-2	08/17/2021	09:55	6	Groundwater		BB15377
MW-3	08/17/2021	10:45	6	Groundwater		BB15378
PZ-4	08/17/2021	12:20	6	Groundwater		BB15379
FB-1	08/17/2021	11:40	4	Field Blank		BB15380
MW-16	08/17/2021	14:00	6	Groundwater		BB15381
MW-17	08/17/2021	15:10	6	Groundwater		BB15382
MW-18	08/17/2021	16:00	6	Groundwater		BB15383

Relinquished By	Received By	Date/Time
		08/18/2021 12:39

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1337		
		Cooler Temp	0.7 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
Site Representative	Jason Arledge		Requested By	Greg Dyer	
Collector	Dallas Gentry		Location	Greene Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-43H	08/18/2021	08:55	6	Groundwater		BB15486
MW-49H	08/18/2021	09:56	6	Groundwater		BB15487
MW-42H	08/18/2021	11:04	6	Groundwater		BB15488
FB-3	08/18/2021	11:40	4	Field Blank		BB15489
MW-48H	08/18/2021	12:10	6	Groundwater		BB15490
MW-48H dup	08/18/2021	12:10	6	Sample Duplicate		BB15491
MW-45H	08/18/2021	13:33	6	Groundwater		BB15492

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	08/19/2021 10:33

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1337	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53677-10-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA **08/19/2021 12:00**

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer		
	Jason Arledge			Requested By	Greg Dyer	
	TJ Daugherty				Location	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-26	08/18/2021	09:20	6	Groundwater		BB15493
MW-27	08/18/2021	10:15	6	Groundwater		BB15494
MW-28	08/18/2021	11:07	6	Groundwater		BB15495
MW-29	08/18/2021	12:05	6	Groundwater		BB15496
MW-30	08/18/2021	13:00	6	Groundwater		BB15497
FB-2	08/18/2021	13:15	4	Field Blank		BB15498

Relinquished By	Received By	Date/Time
		08/19/2021 11:08

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1337	
Cooler Temp	0.1 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53677-10-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	TJ Daugherty		Greene Ash Pond

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-44H	08/23/2021	12:28	6	Groundwater		BB15784
MW-57H	08/23/2021	13:25	6	Groundwater		BB15785
MW-54H	08/23/2021	14:30	6	Groundwater		BB15786
MW-53H	08/23/2021	15:30	6	Groundwater		BB15787
FB-5	08/23/2021	16:00	4	Field Blank		BB15788
MW-35H	08/24/2021	08:55	6	Groundwater		BB15789
MW-24	08/24/2021	09:45	6	Groundwater		BB15790
MW-24 Dup	08/24/2021	09:45	6	Sample Duplicate		BB15791
MW-23	08/24/2021	10:50	6	Groundwater		BB15792

Relinquished By	Received By	Date/Time
		08/24/2021 11:15
		08/24/2021 14:31

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1337	
Cooler Temp	0.7 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53677-10-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Correcting MW-34HA time to 16:21 to match bottles. LBM 8/24/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-31	08/23/2021	12:01	6	Groundwater		BB15775
MW-32	08/23/2021	13:02	6	Groundwater		BB15776
MW-32 dup	08/23/2021	13:02	6	Sample Duplicate		BB15777
MW-33	08/23/2021	14:15	6	Groundwater		BB15778
MW-33 dup	08/23/2021	14:15	6	Sample Duplicate		BB15779
MW-5	08/23/2021	15:26	6	Groundwater		BB15780
MW-34HA	08/23/2021	16:21	6	Groundwater		BB15781
MW-6	08/24/2021	10:35	6	Groundwater		BB15782
MW-7	08/24/2021	11:21	6	Groundwater		BB15783

Relinquished By	Received By	Date/Time
		08/24/2021 11:37
		08/24/2021 14:29

SmarTroll ID	7586-41444-5-3
Turbidity ID	3901-20010-2-2
Sample Event	1337

All metals and radiological bottles have pH < 2

Cooler Temp	0.7 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
	2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8	08/24/2021	12:24	6	Groundwater		BB16075
MW-25	08/24/2021	13:32	6	Groundwater		BB16076
MW-10	08/24/2021	15:02	6	Groundwater		BB16077
MW-9	08/24/2021	15:47	6	Groundwater		BB16078
FB-4	08/24/2021	16:00	4	Field Blank		BB16079
MW-11	08/25/2021	09:00	6	Groundwater		BB16080
MW-21	08/25/2021	09:53	6	Groundwater		BB16081
MW-12	08/25/2021	10:39	6	Groundwater		BB16082
MW-13	08/25/2021	11:37	6	Groundwater		BB16083

Relinquished By	Received By	Date/Time
		08/26/2021 08:21

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2	<input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	Cooler Temp	0.1 degrees C
Sample Event	1337	Thermometer ID	5408-27568-2-2
		pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	TJ Daugherty		Greene Ash Pond

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Correcting description for MW-15 DUP to Sample Duplicate. LBM 8/26/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36H	08/24/2021	12:15	6	Groundwater		BB16084
MW-37H	08/24/2021	13:15	6	Groundwater		BB16085
MW-38H	08/24/2021	14:45	6	Groundwater		BB16086
MW-39H	08/24/2021	15:50	6	Groundwater		BB16087
MW-15	08/25/2021	09:25	6	Groundwater		BB16088
MW-15 Dup	08/25/2021	09:25	6	Sample Duplicate		BB16089
MW-40H	08/25/2021	10:28	6	Groundwater		BB16090
MW-14	08/25/2021	11:30	6	Groundwater		BB16091
MW-41H	08/25/2021	12:25	6	Groundwater		BB16092
EB-1	08/25/2021	13:00	4	Equipment Blank		BB16093

Relinquished By	Received By	Date/Time
		08/26/2021 10:23

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1337	
Cooler Temp	1.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	8440-53677-10-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer	
	Jason Arledge		Greg Dyer	
	Dallas Gentry		Greene 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-43H
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Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-43H	08/18/2021	08:55	3	Groundwater		BB15499
MW-49H	08/18/2021	09:56	1	Groundwater		BB15500
MW-42H	08/18/2021	11:04	1	Groundwater		BB15501
FB-3	08/18/2021	11:40	1	Field Blank		BB15502
MW-48H	08/18/2021	12:10	1	Groundwater		BB15503
MW-48H dup	08/18/2021	12:10	1	Sample Duplicate		BB15504
MW-45H	08/18/2021	13:33	1	Groundwater		BB15505

Relinquished By	Received By	Date/Time
		08/19/2021 10:34

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1337	
	Cooler Temp	N/A
	Thermometer ID	N/A
	pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA 08/19/2021 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments	
----------	--

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-26	08/18/2021	09:20	1	Groundwater		BB15506
MW-27	08/18/2021	10:15	1	Groundwater		BB15507
MW-28	08/18/2021	11:07	1	Groundwater		BB15508
MW-29	08/18/2021	12:05	1	Groundwater		BB15509
MW-30	08/18/2021	13:00	1	Groundwater		BB15510
FB-2	08/18/2021	13:15	1	Field Blank		BB15511

Relinquished By	Received By	Date/Time
		08/19/2021 11:08

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1337		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53677-10-3



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	
	Site Representative			Requested By	
	Jason Arledge			Greg Dyer	
Collector		TJ Daugherty	Location		Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-44H	08/23/2021	12:28	1	Groundwater		BB15802
MW-57H	08/23/2021	13:25	1	Groundwater		BB15803
MW-54H	08/23/2021	14:30	1	Groundwater		BB15804
MW-53H	08/23/2021	15:30	1	Groundwater		BB15805
FB-5	08/23/2021	16:00	1	Field Blank		BB15806
MW-35H	08/24/2021	08:55	1	Groundwater		BB15807
MW-24	08/24/2021	09:45	1	Groundwater		BB15808
MW-24 Dup	08/24/2021	09:45	1	Sample Duplicate		BB15809
MW-23	08/24/2021	10:50	1	Groundwater		BB15810

Relinquished By	Received By	Date/Time
		08/24/2021 11:15
		08/24/2021 14:30

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1337		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater
 APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	Dallas Gentry		Greene 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-31

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-31	08/23/2021	12:01	3	Groundwater		BB15793
MW-32	08/23/2021	13:02	1	Groundwater		BB15794
MW-32 dup	08/23/2021	13:02	1	Sample Duplicate		BB15795
MW-33	08/23/2021	14:15	1	Groundwater		BB15796
MW-33 dup	08/23/2021	14:15	1	Sample Duplicate		BB15797
MW-5	08/23/2021	15:26	1	Groundwater		BB15798
MW-34HA	08/23/2021	16:21	1	Groundwater		BB15799
MW-6	08/24/2021	10:35	1	Groundwater		BB15800
MW-7	08/24/2021	11:21	1	Groundwater		BB15801

Relinquished By	Received By	Date/Time
		08/24/2021 11:36
		08/24/2021 14:28

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1337		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	Dallas Gentry		Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

 Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-8	08/24/2021	12:24	1	Groundwater		BB16094
MW-25	08/24/2021	13:32	1	Groundwater		BB16095
MW-10	08/24/2021	15:02	1	Groundwater		BB16096
MW-9	08/24/2021	15:47	1	Groundwater		BB16097
FB-4	08/24/2021	16:00	1	Field Blank		BB16098
MW-11	08/25/2021	09:00	1	Groundwater		BB16099
MW-21	08/25/2021	09:53	1	Groundwater		BB16100
MW-12	08/25/2021	10:39	1	Groundwater		BB16101
MW-13	08/25/2021	11:37	1	Groundwater		BB16102

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Laura M. Dyer</i>	08/26/2021 08:22

SmarTroll ID	7586-41444-5-3	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1337	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	8440-53677-10-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Site Representative Collector	Routine	Results To Requested By Location	Dustin Brooks, Greg Dyer
	Jason Arledge		Greg Dyer
	TJ Daugherty		Greene 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: Correcting description of MW-15 DUP to Sample Duplicate. LBM 8/26/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36H	08/24/2021	12:15	1	Groundwater		BB16103
MW-37H	08/24/2021	13:15	1	Groundwater		BB16104
MW-38H	08/24/2021	14:45	1	Groundwater		BB16105
MW-39H	08/24/2021	15:50	1	Groundwater		BB16106
MW-15	08/25/2021	09:25	1	Groundwater		BB16107
MW-15 Dup	08/25/2021	09:25	1	Sample Duplicate		BB16108
MW-40H	08/25/2021	10:28	1	Groundwater		BB16109
MW-14	08/25/2021	11:30	1	Groundwater		BB16110
MW-41H	08/25/2021	12:25	1	Groundwater		BB16111
EB-1	08/25/2021	13:00	1	Equipment Blank		BB16112

Relinquished By	Received By	Date/Time
		08/26/2021 10:23

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1337		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Nick Pitts	Location	Greene 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 at MW-16.
 Correcting MW-1 time to 08:45 per bottles. LBM 8/30/21

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	08/17/2021	08:45	1	Groundwater		BB15384
MW-2	08/17/2021	09:55	1	Groundwater		BB15385
MW-3	08/17/2021	10:45	1	Groundwater		BB15386
PZ-4	08/17/2021	12:20	1	Groundwater		BB15387
FB-1	08/17/2021	11:40	1	Field Blank		BB15388
MW-16	08/17/2021	14:00	3	Groundwater		BB15389
MW-17	08/17/2021	15:10	1	Groundwater		BB15390
MW-18	08/17/2021	16:00	1	Groundwater		BB15391

Relinquished By	Received By	Date/Time
<i>St-B</i>	<i>Russell</i>	08/18/2021 12:38

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23343-4-2
Sample Event	1337

All metals and radiological bottles have pH < 2

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8440-53677-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL

October 14, 2021

Laura Midkiff
Alabama Power
744 Highway 87
GSC #8
Calera, AL 35040

RE: Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on August 31, 2021. 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,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

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 #: 9526
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: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92559158001	BB15384 MW-1	Water	08/17/21 08:45	08/31/21 10:30
92559158002	BB15385 MW-2	Water	08/17/21 09:55	08/31/21 10:30
92559158003	BB15386 MW-3	Water	08/17/21 10:45	08/31/21 10:30
92559158004	BB15387 PZ-4	Water	08/17/21 12:20	08/31/21 10:30
92559158005	BB15388 FB-1	Water	08/17/21 11:40	08/31/21 10:30
92559158006	BB15389 MW-16	Water	08/17/21 14:00	08/31/21 10:30
92559158007	BB15389 MW-16 MS	Water	08/17/21 14:00	08/31/21 10:30
92559158008	BB15389 MW-16 MSD	Water	08/17/21 14:00	08/31/21 10:30
92559158009	BB15390 MW-17	Water	08/17/21 15:10	08/31/21 10:30
92559158010	BB15391 MW-18	Water	08/17/21 16:00	08/31/21 10:30
92559158011	BB15499 MW-43H	Water	08/18/21 08:55	08/31/21 10:30
92559158012	BB15499 MW-43H MS	Water	08/18/21 08:55	08/31/21 10:30
92559158013	BB15499 MW-43H MSD	Water	08/18/21 08:55	08/31/21 10:30
92559158014	BB15500 MW-49H	Water	08/18/21 09:56	08/31/21 10:30
92559158015	BB15501 MW-42H	Water	08/18/21 11:04	08/31/21 10:30
92559158016	BB15502 FB-3	Water	08/18/21 11:40	08/31/21 10:30
92559158017	BB15503 MW-48H	Water	08/18/21 12:10	08/31/21 10:30
92559158018	BB15504 MW-48H DUP	Water	08/18/21 12:10	08/31/21 10:30
92559158019	BB15505 MW-45H	Water	08/18/21 13:33	08/31/21 10:30
92559158020	BB15506 MW-26	Water	08/18/21 09:20	08/31/21 10:30
92559158021	BB15507 MW-27	Water	08/18/21 10:15	08/31/21 10:30
92559158022	BB15508 MW-28	Water	08/18/21 11:07	08/31/21 10:30
92559158023	BB15509 MW-29	Water	08/18/21 12:05	08/31/21 10:30
92559158024	BB15510 MW-30	Water	08/18/21 13:00	08/31/21 10:30
92559158025	BB15511 FB-2	Water	08/18/21 13:15	08/31/21 10:30
92559158026	BB15793 MW-31	Water	08/23/21 12:01	08/31/21 10:30
92559158027	BB15793 MW-31 MS	Water	08/23/21 12:01	08/31/21 10:30
92559158028	BB15793 MW-31 MSD	Water	08/23/21 12:01	08/31/21 10:30
92559158029	BB15794 MW-32	Water	08/23/21 13:02	08/31/21 10:30
92559158030	BB15795 MW-32 DUP	Water	08/23/21 13:02	08/31/21 10:30
92559158031	BB15796 MW-33	Water	08/23/21 14:15	08/31/21 10:30
92559158032	BB15797 MW-33 DUP	Water	08/23/21 14:15	08/31/21 10:30
92559158033	BB15798 MW-5	Water	08/23/21 15:26	08/31/21 10:30
92559158034	BB15799 MW-34HA	Water	08/23/21 16:21	08/31/21 10:30
92559158035	BB15800 MW-6	Water	08/24/21 10:35	08/31/21 10:30
92559158036	BB15801 MW-7	Water	08/24/21 11:21	08/31/21 10:30
92559158037	BB15802 MW-44H	Water	08/23/21 12:28	08/31/21 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92559158038	BB15803 MW-57H	Water	08/23/21 13:25	08/31/21 10:30
92559158039	BB15804 MW-54H	Water	08/23/21 14:30	08/31/21 10:30
92559158040	BB15805 MW-53H	Water	08/23/21 15:30	08/31/21 10:30
92559158041	BB15806 FB-5	Water	08/23/21 16:00	08/31/21 10:30
92559158042	BB15807 MW-35H	Water	08/24/21 08:55	08/31/21 10:30
92559158043	BB15808 MW-24	Water	08/24/21 09:45	08/31/21 10:30
92559158044	BB15809 MW-24 DUP	Water	08/24/21 09:45	08/31/21 10:30
92559158045	BB15810 MW-23	Water	08/24/21 10:50	08/31/21 10:30
92559158046	BB16094 MW-8	Water	08/24/21 12:24	08/31/21 10:30
92559158047	BB16095 MW-25	Water	08/24/21 13:32	08/31/21 10:30
92559158048	BB16096 MW-10	Water	08/24/21 15:02	08/31/21 10:30
92559158049	BB16097 MW-9	Water	08/24/21 15:47	08/31/21 10:30
92559158050	BB16098 FB-4	Water	08/24/21 16:00	08/31/21 10:30
92559158051	BB16099 MW-11	Water	08/25/21 09:00	08/31/21 10:30
92559158052	BB16100 MW-21	Water	08/25/21 09:53	08/31/21 10:30
92559158053	BB16101 MW-12	Water	08/25/21 10:39	08/31/21 10:30
92559158054	BB16102 MW-13	Water	08/25/21 11:37	08/31/21 10:30
92559158055	BB16103 MW-36H	Water	08/24/21 12:15	08/31/21 10:30
92559158056	BB16104 MW-37H	Water	08/24/21 13:15	08/31/21 10:30
92559158057	BB16105 MW-38H	Water	08/24/21 14:45	08/31/21 10:30
92559158058	BB16106 MW-39H	Water	08/24/21 15:50	08/31/21 10:30
92559158059	BB16107 MW-15	Water	08/25/21 09:25	08/31/21 10:30
92559158060	BB16108 MW-15 DUP	Water	08/25/21 09:25	08/31/21 10:30
92559158061	BB16109 MW-40H	Water	08/25/21 10:28	08/31/21 10:30
92559158062	BB16110 MW-14	Water	08/25/21 11:30	08/31/21 10:30
92559158063	BB16111 MW-41H	Water	08/25/21 12:25	08/31/21 10:30
92559158064	BB16112 EB-1	Water	08/25/21 13:00	08/31/21 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92559158001	BB15384 MW-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158002	BB15385 MW-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158003	BB15386 MW-3	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158004	BB15387 PZ-4	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158005	BB15388 FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158006	BB15389 MW-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158007	BB15389 MW-16 MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158008	BB15389 MW-16 MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158009	BB15390 MW-17	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158010	BB15391 MW-18	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158011	BB15499 MW-43H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158012	BB15499 MW-43H MS	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158013	BB15499 MW-43H MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158014	BB15500 MW-49H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92559158015	BB15501 MW-42H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158016	BB15502 FB-3	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158017	BB15503 MW-48H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158018	BB15504 MW-48H DUP	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158019	BB15505 MW-45H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158020	BB15506 MW-26	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158021	BB15507 MW-27	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158022	BB15508 MW-28	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158023	BB15509 MW-29	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92559158024	BB15510 MW-30	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158025	BB15511 FB-2	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158026	BB15793 MW-31	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92559158027	BB15793 MW-31 MS	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158028	BB15793 MW-31 MSD	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158029	BB15794 MW-32	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158030	BB15795 MW-32 DUP	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158031	BB15796 MW-33	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158032	BB15797 MW-33 DUP	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158033	BB15798 MW-5	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158034	BB15799 MW-34HA	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158035	BB15800 MW-6	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158036	BB15801 MW-7	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158037	BB15802 MW-44H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158038	BB15803 MW-57H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
92559158039	BB15804 MW-54H	Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92559158040	BB15805 MW-53H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158041	BB15806 FB-5	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158042	BB15807 MW-35H	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158043	BB15808 MW-24	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158044	BB15809 MW-24 DUP	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158045	BB15810 MW-23	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158046	BB16094 MW-8	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158047	BB16095 MW-25	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158048	BB16096 MW-10	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158049	BB16097 MW-9	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158050	BB16098 FB-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158051	BB16099 MW-11	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559158052	BB16100 MW-21	EPA 9315	CLA	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92559158053	BB16101 MW-12	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158054	BB16102 MW-13	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158055	BB16103 MW-36H	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158056	BB16104 MW-37H	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158057	BB16105 MW-38H	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158058	BB16106 MW-39H	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158059	BB16107 MW-15	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158060	BB16108 MW-15 DUP	EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158061	BB16109 MW-40H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158062	BB16110 MW-14	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158063	BB16111 MW-41H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA
92559158064	BB16112 EB-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	CLA	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: October 14, 2021

General Information:

64 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: October 14, 2021

General Information:

64 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: October 14, 2021

General Information:

58 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15384 MW-1 **Lab ID: 92559158001** Collected: 08/17/21 08:45 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.482 ± 0.294 (0.471) C:86% T:NA	pCi/L	09/29/21 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.877 ± 0.353 (0.517) C:77% T:91%	pCi/L	09/17/21 10:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.36 ± 0.647 (0.988)	pCi/L	09/30/21 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15385 MW-2 **Lab ID: 92559158002** Collected: 08/17/21 09:55 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.385U ± 0.269 (0.492) C:93% T:NA	pCi/L	09/29/21 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.62 ± 0.494 (0.596) C:82% T:88%	pCi/L	09/17/21 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.01 ± 0.763 (1.09)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15386 MW-3 **Lab ID: 92559158003** Collected: 08/17/21 10:45 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.306U ± 0.217 (0.373) C:101% T:NA	pCi/L	09/29/21 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.784 ± 0.382 (0.656) C:77% T:90%	pCi/L	09/17/21 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.09 ± 0.599 (1.03)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15387 PZ-4 **Lab ID: 92559158004** Collected: 08/17/21 12:20 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.626 ± 0.288 (0.410) C:99% T:NA	pCi/L	09/29/21 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.13 ± 0.450 (0.705) C:78% T:85%	pCi/L	09/17/21 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.76 ± 0.738 (1.12)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15388 FB-1 **Lab ID: 92559158005** Collected: 08/17/21 11:40 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0191U ± 0.130 (0.339) C:97% T:NA	pCi/L	09/29/21 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.651 ± 0.344 (0.597) C:77% T:85%	pCi/L	09/17/21 10:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.670U ± 0.474 (0.936)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15389 MW-16 **Lab ID: 92559158006** Collected: 08/17/21 14:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.233U ± 0.218 (0.421) C:87% T:NA	pCi/L	09/29/21 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.257U ± 0.307 (0.645) C:80% T:82%	pCi/L	09/17/21 10:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.490U ± 0.525 (1.07)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15389 MW-16 MS **Lab ID: 92559158007** Collected: 08/17/21 14:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	105.13 %REC ± NA (NA) C:NA T:NA	pCi/L	09/29/21 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	89.65 %REC ± NA (NA) C:NA T:NA	pCi/L	09/17/21 10:46	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15389 MW-16 MSD **Lab ID: 92559158008** Collected: 08/17/21 14:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	99.29 %REC 5.71RPD ± NA (NA) C:NA T:NA	pCi/L	09/29/21 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	86.90 %REC 3.12 RPD ± NA (NA) C:NA T:NA	pCi/L	09/17/21 10:46	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15390 MW-17 **Lab ID: 92559158009** Collected: 08/17/21 15:10 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.715 ± 0.286 (0.349) C:96% T:NA	pCi/L	09/29/21 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.25 ± 0.427 (0.572) C:78% T:92%	pCi/L	09/17/21 10:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.97 ± 0.713 (0.921)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15391 MW-18 **Lab ID: 92559158010** Collected: 08/17/21 16:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.654 ± 0.328 (0.526) C:96% T:NA	pCi/L	09/29/21 09:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.39 ± 0.476 (0.648) C:78% T:85%	pCi/L	09/17/21 10:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.04 ± 0.804 (1.17)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15499 MW-43H **Lab ID: 92559158011** Collected: 08/18/21 08:55 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.559 ± 0.271 (0.382) C:97% T:NA	pCi/L	09/29/21 11:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.08 ± 0.471 (0.788) C:74% T:88%	pCi/L	09/23/21 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.64 ± 0.742 (1.17)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15499 MW-43H MS **Lab ID: 92559158012** Collected: 08/18/21 08:55 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	100.88 %REC ± NA (NA) C:NA T:NA	pCi/L	09/29/21 12:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	94.27 %REC ± NA (NA) C:NA T:NA	pCi/L	09/23/21 11:16	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15499 MW-43H MSD **Lab ID: 92559158013** Collected: 08/18/21 08:55 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	99.84 %REC 1.04RPD ± NA (NA) C:NA T:NA	pCi/L	09/29/21 12:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	124.86 %REC 27.92 RPD ± NA (NA) C:NA T:NA	pCi/L	09/23/21 11:16	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15500 MW-49H **Lab ID: 92559158014** Collected: 08/18/21 09:56 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.439U ± 0.319 (0.608) C:89% T:NA	pCi/L	09/29/21 09:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.670 ± 0.349 (0.602) C:76% T:88%	pCi/L	09/17/21 10:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.11U ± 0.668 (1.21)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15501 MW-42H **Lab ID: 92559158015** Collected: 08/18/21 11:04 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.921 ± 0.331 (0.330) C:91% T:NA	pCi/L	09/29/21 09:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.975 ± 0.405 (0.637) C:79% T:89%	pCi/L	09/17/21 10:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.90 ± 0.736 (0.967)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15502 FB-3 **Lab ID: 92559158016** Collected: 08/18/21 11:40 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.143U ± 0.158 (0.487) C:96% T:NA	pCi/L	09/29/21 09:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.441U ± 0.344 (0.676) C:76% T:84%	pCi/L	09/17/21 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.441U ± 0.502 (1.16)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15503 MW-48H **Lab ID: 92559158017** Collected: 08/18/21 12:10 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0844U ± 0.192 (0.452) C:81% T:NA	pCi/L	09/29/21 10:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.511U ± 0.298 (0.532) C:77% T:92%	pCi/L	09/17/21 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.595U ± 0.490 (0.984)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15504 MW-48H DUP **Lab ID: 92559158018** Collected: 08/18/21 12:10 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0255U ± 0.176 (0.471) C:89% T:NA	pCi/L	09/29/21 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.126U ± 0.295 (0.658) C:75% T:86%	pCi/L	09/17/21 10:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.126U ± 0.471 (1.13)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15505 MW-45H **Lab ID: 92559158019** Collected: 08/18/21 13:33 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.257U ± 0.201 (0.361) C:94% T:NA	pCi/L	09/29/21 10:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.839 ± 0.398 (0.676) C:76% T:89%	pCi/L	09/17/21 10:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10 ± 0.599 (1.04)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15506 MW-26 **Lab ID: 92559158020** Collected: 08/18/21 09:20 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.102U ± 0.170 (0.381) C:97% T:NA	pCi/L	09/29/21 10:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.225U ± 0.340 (0.735) C:75% T:87%	pCi/L	09/17/21 10:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.327U ± 0.510 (1.12)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15507 MW-27 **Lab ID: 92559158021** Collected: 08/18/21 10:15 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.350U ± 0.218 (0.369) C:98% T:NA	pCi/L	09/29/21 11:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.591U ± 0.353 (0.649) C:77% T:86%	pCi/L	09/17/21 10:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.941U ± 0.571 (1.02)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15508 MW-28 **Lab ID: 92559158022** Collected: 08/18/21 11:07 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.262U ± 0.229 (0.451) C:93% T:NA	pCi/L	09/29/21 11:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.517U ± 0.336 (0.628) C:76% T:89%	pCi/L	09/17/21 10:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.779U ± 0.565 (1.08)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15509 MW-29 **Lab ID: 92559158023** Collected: 08/18/21 12:05 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.153U ± 0.179 (0.370) C:95% T:NA	pCi/L	09/29/21 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.784 ± 0.411 (0.723) C:75% T:84%	pCi/L	09/17/21 10:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.937U ± 0.590 (1.09)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15510 MW-30 **Lab ID: 92559158024** Collected: 08/18/21 13:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.288U ± 0.206 (0.346) C:99% T:NA	pCi/L	09/29/21 12:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.935 ± 0.502 (0.919) C:77% T:79%	pCi/L	09/23/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.22U ± 0.708 (1.27)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15511 FB-2 **Lab ID: 92559158025** Collected: 08/18/21 13:15 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.00573U ± 0.169 (0.453) C:93% T:NA	pCi/L	09/29/21 12:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.969 ± 0.489 (0.867) C:72% T:82%	pCi/L	09/23/21 11:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.969U ± 0.658 (1.32)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15793 MW-31 **Lab ID: 92559158026** Collected: 08/23/21 12:01 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0208U ± 0.128 (0.333) C:94% T:NA	pCi/L	09/29/21 14:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.324U ± 0.343 (0.711) C:75% T:90%	pCi/L	09/23/21 14:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.345U ± 0.471 (1.04)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15793 MW-31 MS **Lab ID: 92559158027** Collected: 08/23/21 12:01 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	97.87 %REC ± NA (NA) C:NA T:NA	pCi/L	09/29/21 14:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	73.63 %REC ± NA (NA) C:NA T:NA	pCi/L	09/23/21 14:30	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15793 MW-31 MSD **Lab ID: 92559158028** Collected: 08/23/21 12:01 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	99.19 %REC 1.34RPD ± NA (NA) C:NA T:NA	pCi/L	09/29/21 14:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	97.94 %REC 28.34 RPD ± NA (NA) C:NA T:NA	pCi/L	09/23/21 14:30	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15794 MW-32 **Lab ID: 92559158029** Collected: 08/23/21 13:02 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.469 ± 0.247 (0.327) C:91% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.623U ± 0.378 (0.704) C:74% T:91%	pCi/L	09/23/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.09 ± 0.625 (1.03)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15795 MW-32 DUP **Lab ID: 92559158030** Collected: 08/23/21 13:02 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.334 ± 0.212 (0.325) C:93% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.38 ± 0.529 (0.826) C:72% T:85%	pCi/L	09/23/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.71 ± 0.741 (1.15)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15796 MW-33 **Lab ID: 92559158031** Collected: 08/23/21 14:15 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0432U ± 0.0938 (0.304) C:100% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.01 ± 0.488 (0.844) C:72% T:80%	pCi/L	09/23/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01U ± 0.582 (1.15)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15797 MW-33 DUP **Lab ID: 92559158032** Collected: 08/23/21 14:15 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0658U ± 0.127 (0.291) C:96% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.198U ± 0.393 (0.865) C:76% T:84%	pCi/L	09/23/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.264U ± 0.520 (1.16)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15798 MW-5 **Lab ID: 92559158033** Collected: 08/23/21 15:26 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.900 ± 0.317 (0.291) C:94% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.21 ± 0.455 (0.681) C:72% T:95%	pCi/L	09/23/21 11:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.11 ± 0.772 (0.972)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15799 MW-34HA **Lab ID: 92559158034** Collected: 08/23/21 16:21 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.334U ± 0.223 (0.360) C:92% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.00204U ± 0.349 (0.808) C:73% T:88%	pCi/L	09/23/21 11:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.336U ± 0.572 (1.17)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15800 MW-6 **Lab ID: 92559158035** Collected: 08/24/21 10:35 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.127U ± 0.172 (0.368) C:96% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.518U ± 0.401 (0.795) C:72% T:85%	pCi/L	09/23/21 11:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.645U ± 0.573 (1.16)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15801 MW-7 **Lab ID: 92559158036** Collected: 08/24/21 11:21 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.408 ± 0.229 (0.331) C:98% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.457U ± 0.410 (0.842) C:80% T:85%	pCi/L	09/23/21 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.865U ± 0.639 (1.17)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15802 MW-44H **Lab ID: 92559158037** Collected: 08/23/21 12:28 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.298U ± 0.203 (0.311) C:99% T:NA	pCi/L	09/29/21 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.828 ± 0.445 (0.807) C:72% T:89%	pCi/L	09/23/21 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.13 ± 0.648 (1.12)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15803 MW-57H **Lab ID: 92559158038** Collected: 08/23/21 13:25 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.663 ± 0.306 (0.412) C:92% T:NA	pCi/L	09/29/21 14:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.861 ± 0.463 (0.842) C:72% T:86%	pCi/L	09/23/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.52 ± 0.769 (1.25)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15804 MW-54H **Lab ID: 92559158039** Collected: 08/23/21 14:30 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.394U ± 0.285 (0.524) C:94% T:NA	pCi/L	09/29/21 14:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.584U ± 0.424 (0.829) C:70% T:89%	pCi/L	09/23/21 14:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.978U ± 0.709 (1.35)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15805 MW-53H **Lab ID: 92559158040** Collected: 08/23/21 15:30 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.762 ± 0.370 (0.567) C:98% T:NA	pCi/L	09/29/21 14:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.30 ± 0.518 (0.819) C:72% T:87%	pCi/L	09/23/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.06 ± 0.888 (1.39)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15806 FB-5 **Lab ID: 92559158041** Collected: 08/23/21 16:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0679U ± 0.149 (0.348) C:97% T:NA	pCi/L	09/29/21 14:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.300U ± 0.379 (0.806) C:74% T:90%	pCi/L	09/23/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.368U ± 0.528 (1.15)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15807 MW-35H **Lab ID: 92559158042** Collected: 08/24/21 08:55 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.122U ± 0.240 (0.554) C:98% T:NA	pCi/L	09/29/21 14:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.370U ± 0.415 (0.868) C:76% T:84%	pCi/L	09/23/21 14:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.492U ± 0.655 (1.42)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15808 MW-24 **Lab ID: 92559158043** Collected: 08/24/21 09:45 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.441 ± 0.275 (0.428) C:90% T:NA	pCi/L	09/29/21 14:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.785U ± 0.440 (0.786) C:76% T:81%	pCi/L	09/23/21 14:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.23 ± 0.715 (1.21)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15809 MW-24 DUP **Lab ID: 92559158044** Collected: 08/24/21 09:45 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.560 ± 0.308 (0.453) C:87% T:NA	pCi/L	09/29/21 14:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.285U ± 0.329 (0.689) C:74% T:92%	pCi/L	09/23/21 14:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.845U ± 0.637 (1.14)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB15810 MW-23 **Lab ID: 92559158045** Collected: 08/24/21 10:50 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0712U ± 0.193 (0.468) C:92% T:NA	pCi/L	09/29/21 14:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.664U ± 0.420 (0.792) C:71% T:85%	pCi/L	09/23/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.735U ± 0.613 (1.26)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16094 MW-8 **Lab ID: 92559158046** Collected: 08/24/21 12:24 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.573 ± 0.273 (0.354) C:88% T:NA	pCi/L	09/29/21 14:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.10 ± 0.471 (0.752) C:74% T:84%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.67 ± 0.744 (1.11)	pCi/L	09/30/21 15:57	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16095 MW-25 **Lab ID: 92559158047** Collected: 08/24/21 13:32 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.171U ± 0.199 (0.417) C:93% T:NA	pCi/L	09/29/21 14:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.522U ± 0.410 (0.813) C:74% T:84%	pCi/L	09/23/21 14:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.693U ± 0.609 (1.23)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16096 MW-10 **Lab ID: 92559158048** Collected: 08/24/21 15:02 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.422 ± 0.251 (0.395) C:91% T:NA	pCi/L	09/29/21 14:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.437 (0.690) C:72% T:91%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.45 ± 0.688 (1.09)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16097 MW-9 **Lab ID: 92559158049** Collected: 08/24/21 15:47 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.633 ± 0.294 (0.401) C:94% T:NA	pCi/L	09/29/21 14:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.798 ± 0.421 (0.740) C:73% T:86%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.43 ± 0.715 (1.14)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16098 FB-4 **Lab ID: 92559158050** Collected: 08/24/21 16:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.362U ± 0.243 (0.427) C:90% T:NA	pCi/L	09/29/21 15:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.665U ± 0.437 (0.826) C:70% T:80%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03U ± 0.680 (1.25)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16099 MW-11 **Lab ID: 92559158051** Collected: 08/25/21 09:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.233U ± 0.251 (0.522) C:82% T:NA	pCi/L	09/29/21 15:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.496U ± 0.377 (0.739) C:72% T:90%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.729U ± 0.628 (1.26)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16100 MW-21 **Lab ID: 92559158052** Collected: 08/25/21 09:53 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.159U ± 0.210 (0.454) C:91% T:NA	pCi/L	09/30/21 07:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.146U ± 0.317 (0.702) C:74% T:91%	pCi/L	09/23/21 14:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.305U ± 0.527 (1.16)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16101 MW-12 **Lab ID: 92559158053** Collected: 08/25/21 10:39 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.113U ± 0.168 (0.367) C:93% T:NA	pCi/L	09/30/21 07:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0647U ± 0.292 (0.703) C:73% T:91%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.113U ± 0.460 (1.07)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16102 MW-13 **Lab ID: 92559158054** Collected: 08/25/21 11:37 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.193U ± 0.196 (0.389) C:92% T:NA	pCi/L	09/30/21 07:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.107U ± 0.363 (0.819) C:73% T:85%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.300U ± 0.559 (1.21)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16103 MW-36H **Lab ID: 92559158055** Collected: 08/24/21 12:15 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0746U ± 0.163 (0.473) C:100% T:NA	pCi/L	09/30/21 07:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.253U ± 0.357 (0.766) C:74% T:86%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.253U ± 0.520 (1.24)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16104 MW-37H **Lab ID: 92559158056** Collected: 08/24/21 13:15 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.118U ± 0.193 (0.434) C:96% T:NA	pCi/L	09/30/21 07:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.164U ± 0.338 (0.747) C:73% T:92%	pCi/L	09/23/21 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.282U ± 0.531 (1.18)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16105 MW-38H **Lab ID: 92559158057** Collected: 08/24/21 14:45 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.302U ± 0.275 (0.545) C:95% T:NA	pCi/L	09/30/21 07:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.115U ± 0.358 (0.805) C:77% T:87%	pCi/L	09/23/21 14:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.417U ± 0.633 (1.35)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16106 MW-39H **Lab ID: 92559158058** Collected: 08/24/21 15:50 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.575 ± 0.274 (0.351) C:93% T:NA	pCi/L	09/30/21 07:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.248U ± 0.355 (0.764) C:76% T:92%	pCi/L	09/23/21 14:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.823U ± 0.629 (1.12)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16107 MW-15 **Lab ID: 92559158059** Collected: 08/25/21 09:25 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.249U ± 0.201 (0.360) C:97% T:NA	pCi/L	09/30/21 07:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0652U ± 0.346 (0.791) C:74% T:86%	pCi/L	09/23/21 14:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.314U ± 0.547 (1.15)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16108 MW-15 DUP **Lab ID: 92559158060** Collected: 08/25/21 09:25 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.404 ± 0.245 (0.377) C:94% T:NA	pCi/L	09/30/21 07:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.305U ± 0.355 (0.747) C:75% T:89%	pCi/L	09/23/21 14:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.709U ± 0.600 (1.12)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16109 MW-40H **Lab ID: 92559158061** Collected: 08/25/21 10:28 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.314U ± 0.252 (0.457) C:97% T:NA	pCi/L	09/23/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.772 ± 0.407 (0.720) C:76% T:89%	pCi/L	09/17/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.09U ± 0.659 (1.18)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16110 MW-14 **Lab ID: 92559158062** Collected: 08/25/21 11:30 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.446 ± 0.238 (0.287) C:98% T:NA	pCi/L	09/23/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.561U ± 0.376 (0.714) C:76% T:85%	pCi/L	09/17/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01 ± 0.614 (1.00)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16111 MW-41H **Lab ID: 92559158063** Collected: 08/25/21 12:25 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.326U ± 0.291 (0.561) C:93% T:NA	pCi/L	09/23/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.612U ± 0.379 (0.698) C:73% T:88%	pCi/L	09/17/21 13:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.938U ± 0.670 (1.26)	pCi/L	09/30/21 15:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Sample: BB16112 EB-1 **Lab ID: 92559158064** Collected: 08/25/21 13:00 Received: 08/31/21 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.291U ± 0.226 (0.386) C:97% T:NA	pCi/L	09/23/21 08:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.253U ± 0.374 (0.806) C:76% T:81%	pCi/L	09/17/21 13:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.544U ± 0.600 (1.19)	pCi/L	09/30/21 15:58	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

QC Batch:	463420	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92559158026, 92559158027, 92559158028, 92559158043, 92559158044, 92559158046, 92559158047, 92559158048, 92559158049, 92559158050, 92559158051, 92559158052, 92559158053, 92559158054, 92559158055, 92559158056, 92559158057, 92559158058, 92559158059, 92559158060		

METHOD BLANK:	2237342	Matrix:	Water
Associated Lab Samples:	92559158026, 92559158027, 92559158028, 92559158043, 92559158044, 92559158046, 92559158047, 92559158048, 92559158049, 92559158050, 92559158051, 92559158052, 92559158053, 92559158054, 92559158055, 92559158056, 92559158057, 92559158058, 92559158059, 92559158060		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0496 ± 0.0898 (0.204) C:97% T:NA	pCi/L	09/29/21 08:50	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

QC Batch: 463423

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92559158061, 92559158062, 92559158063, 92559158064

METHOD BLANK: 2237354

Matrix: Water

Associated Lab Samples: 92559158061, 92559158062, 92559158063, 92559158064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.479 ± 0.336 (0.631) C:74% T:82%	pCi/L	09/17/21 13:53	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

QC Batch:	463413	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92559158011, 92559158012, 92559158013, 92559158024, 92559158025, 92559158029, 92559158030, 92559158031, 92559158032, 92559158033, 92559158034, 92559158035, 92559158036, 92559158037, 92559158038, 92559158039, 92559158040, 92559158041, 92559158042, 92559158045

METHOD BLANK:	2237326	Matrix:	Water
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Associated Lab Samples: 92559158011, 92559158012, 92559158013, 92559158024, 92559158025, 92559158029, 92559158030, 92559158031, 92559158032, 92559158033, 92559158034, 92559158035, 92559158036, 92559158037, 92559158038, 92559158039, 92559158040, 92559158041, 92559158042, 92559158045

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.853 ± 0.443 (0.793) C:73% T:86%	pCi/L	09/23/21 11:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

QC Batch:	463409	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92559158001, 92559158002, 92559158003, 92559158004, 92559158005, 92559158006, 92559158007, 92559158008, 92559158009, 92559158010, 92559158014, 92559158015, 92559158016, 92559158017, 92559158018, 92559158019, 92559158020, 92559158021, 92559158022, 92559158023

METHOD BLANK:	2237321	Matrix:	Water
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Associated Lab Samples: 92559158001, 92559158002, 92559158003, 92559158004, 92559158005, 92559158006, 92559158007, 92559158008, 92559158009, 92559158010, 92559158014, 92559158015, 92559158016, 92559158017, 92559158018, 92559158019, 92559158020, 92559158021, 92559158022, 92559158023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.199 ± 0.128 (0.221) C:99% T:NA	pCi/L	09/29/21 08:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

QC Batch:	463407	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92559158001, 92559158002, 92559158003, 92559158004, 92559158005, 92559158006, 92559158007, 92559158008, 92559158009, 92559158010, 92559158014, 92559158015, 92559158016, 92559158017, 92559158018, 92559158019, 92559158020, 92559158021, 92559158022, 92559158023

METHOD BLANK:	2237319	Matrix:	Water
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Associated Lab Samples: 92559158001, 92559158002, 92559158003, 92559158004, 92559158005, 92559158006, 92559158007, 92559158008, 92559158009, 92559158010, 92559158014, 92559158015, 92559158016, 92559158017, 92559158018, 92559158019, 92559158020, 92559158021, 92559158022, 92559158023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.656 ± 0.365 (0.657) C:79% T:85%	pCi/L	09/17/21 10:45	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

QC Batch: 463425	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92559158061, 92559158062, 92559158063, 92559158064

METHOD BLANK: 2237357 Matrix: Water

Associated Lab Samples: 92559158061, 92559158062, 92559158063, 92559158064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.152 ± 0.118 (0.199) C:100% T:NA	pCi/L	09/23/21 08:10	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

QC Batch: 463419

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92559158026, 92559158027, 92559158028, 92559158043, 92559158044, 92559158046, 92559158047, 92559158048, 92559158049, 92559158050, 92559158051, 92559158052, 92559158053, 92559158054, 92559158055, 92559158056, 92559158057, 92559158058, 92559158059, 92559158060

METHOD BLANK: 2237335

Matrix: Water

Associated Lab Samples: 92559158026, 92559158027, 92559158028, 92559158043, 92559158044, 92559158046, 92559158047, 92559158048, 92559158049, 92559158050, 92559158051, 92559158052, 92559158053, 92559158054, 92559158055, 92559158056, 92559158057, 92559158058, 92559158059, 92559158060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.400 ± 0.360 (0.733) C:78% T:93%	pCi/L	09/23/21 14:30	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

QC Batch: 463414

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92559158011, 92559158012, 92559158013, 92559158024, 92559158025, 92559158029, 92559158030, 92559158031, 92559158032, 92559158033, 92559158034, 92559158035, 92559158036, 92559158037, 92559158038, 92559158039, 92559158040, 92559158041, 92559158042, 92559158045

METHOD BLANK: 2237328

Matrix: Water

Associated Lab Samples: 92559158011, 92559158012, 92559158013, 92559158024, 92559158025, 92559158029, 92559158030, 92559158031, 92559158032, 92559158033, 92559158034, 92559158035, 92559158036, 92559158037, 92559158038, 92559158039, 92559158040, 92559158041, 92559158042, 92559158045

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0437 ± 0.107 (0.254) C:106% T:NA	pCi/L	09/29/21 08:50	

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

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QUALIFIERS

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559158001	BB15384 MW-1	EPA 9315	463409		
92559158002	BB15385 MW-2	EPA 9315	463409		
92559158003	BB15386 MW-3	EPA 9315	463409		
92559158004	BB15387 PZ-4	EPA 9315	463409		
92559158005	BB15388 FB-1	EPA 9315	463409		
92559158006	BB15389 MW-16	EPA 9315	463409		
92559158007	BB15389 MW-16 MS	EPA 9315	463409		
92559158008	BB15389 MW-16 MSD	EPA 9315	463409		
92559158009	BB15390 MW-17	EPA 9315	463409		
92559158010	BB15391 MW-18	EPA 9315	463409		
92559158011	BB15499 MW-43H	EPA 9315	463414		
92559158012	BB15499 MW-43H MS	EPA 9315	463414		
92559158013	BB15499 MW-43H MSD	EPA 9315	463414		
92559158014	BB15500 MW-49H	EPA 9315	463409		
92559158015	BB15501 MW-42H	EPA 9315	463409		
92559158016	BB15502 FB-3	EPA 9315	463409		
92559158017	BB15503 MW-48H	EPA 9315	463409		
92559158018	BB15504 MW-48H DUP	EPA 9315	463409		
92559158019	BB15505 MW-45H	EPA 9315	463409		
92559158020	BB15506 MW-26	EPA 9315	463409		
92559158021	BB15507 MW-27	EPA 9315	463409		
92559158022	BB15508 MW-28	EPA 9315	463409		
92559158023	BB15509 MW-29	EPA 9315	463409		
92559158024	BB15510 MW-30	EPA 9315	463414		
92559158025	BB15511 FB-2	EPA 9315	463414		
92559158026	BB15793 MW-31	EPA 9315	463420		
92559158027	BB15793 MW-31 MS	EPA 9315	463420		
92559158028	BB15793 MW-31 MSD	EPA 9315	463420		
92559158029	BB15794 MW-32	EPA 9315	463414		
92559158030	BB15795 MW-32 DUP	EPA 9315	463414		
92559158031	BB15796 MW-33	EPA 9315	463414		
92559158032	BB15797 MW-33 DUP	EPA 9315	463414		
92559158033	BB15798 MW-5	EPA 9315	463414		
92559158034	BB15799 MW-34HA	EPA 9315	463414		
92559158035	BB15800 MW-6	EPA 9315	463414		
92559158036	BB15801 MW-7	EPA 9315	463414		
92559158037	BB15802 MW-44H	EPA 9315	463414		
92559158038	BB15803 MW-57H	EPA 9315	463414		
92559158039	BB15804 MW-54H	EPA 9315	463414		
92559158040	BB15805 MW-53H	EPA 9315	463414		
92559158041	BB15806 FB-5	EPA 9315	463414		
92559158042	BB15807 MW-35H	EPA 9315	463414		
92559158043	BB15808 MW-24	EPA 9315	463420		
92559158044	BB15809 MW-24 DUP	EPA 9315	463420		
92559158045	BB15810 MW-23	EPA 9315	463414		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE ASH POND WMWGREAP_1337

Pace Project No.: 92559158

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559158046	BB16094 MW-8	EPA 9315	463420		
92559158047	BB16095 MW-25	EPA 9315	463420		
92559158048	BB16096 MW-10	EPA 9315	463420		
92559158049	BB16097 MW-9	EPA 9315	463420		
92559158050	BB16098 FB-4	EPA 9315	463420		
92559158051	BB16099 MW-11	EPA 9315	463420		
92559158052	BB16100 MW-21	EPA 9315	463420		
92559158053	BB16101 MW-12	EPA 9315	463420		
92559158054	BB16102 MW-13	EPA 9315	463420		
92559158055	BB16103 MW-36H	EPA 9315	463420		
92559158056	BB16104 MW-37H	EPA 9315	463420		
92559158057	BB16105 MW-38H	EPA 9315	463420		
92559158058	BB16106 MW-39H	EPA 9315	463420		
92559158059	BB16107 MW-15	EPA 9315	463420		
92559158060	BB16108 MW-15 DUP	EPA 9315	463420		
92559158061	BB16109 MW-40H	EPA 9315	463425		
92559158062	BB16110 MW-14	EPA 9315	463425		
92559158063	BB16111 MW-41H	EPA 9315	463425		
92559158064	BB16112 EB-1	EPA 9315	463425		
92559158001	BB15384 MW-1	EPA 9320	463407		
92559158002	BB15385 MW-2	EPA 9320	463407		
92559158003	BB15386 MW-3	EPA 9320	463407		
92559158004	BB15387 PZ-4	EPA 9320	463407		
92559158005	BB15388 FB-1	EPA 9320	463407		
92559158006	BB15389 MW-16	EPA 9320	463407		
92559158007	BB15389 MW-16 MS	EPA 9320	463407		
92559158008	BB15389 MW-16 MSD	EPA 9320	463407		
92559158009	BB15390 MW-17	EPA 9320	463407		
92559158010	BB15391 MW-18	EPA 9320	463407		
92559158011	BB15499 MW-43H	EPA 9320	463413		
92559158012	BB15499 MW-43H MS	EPA 9320	463413		
92559158013	BB15499 MW-43H MSD	EPA 9320	463413		
92559158014	BB15500 MW-49H	EPA 9320	463407		
92559158015	BB15501 MW-42H	EPA 9320	463407		
92559158016	BB15502 FB-3	EPA 9320	463407		
92559158017	BB15503 MW-48H	EPA 9320	463407		
92559158018	BB15504 MW-48H DUP	EPA 9320	463407		
92559158019	BB15505 MW-45H	EPA 9320	463407		
92559158020	BB15506 MW-26	EPA 9320	463407		
92559158021	BB15507 MW-27	EPA 9320	463407		
92559158022	BB15508 MW-28	EPA 9320	463407		
92559158023	BB15509 MW-29	EPA 9320	463407		
92559158024	BB15510 MW-30	EPA 9320	463413		
92559158025	BB15511 FB-2	EPA 9320	463413		
92559158026	BB15793 MW-31	EPA 9320	463419		
92559158027	BB15793 MW-31 MS	EPA 9320	463419		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559158028	BB15793 MW-31 MSD	EPA 9320	463419		
92559158029	BB15794 MW-32	EPA 9320	463413		
92559158030	BB15795 MW-32 DUP	EPA 9320	463413		
92559158031	BB15796 MW-33	EPA 9320	463413		
92559158032	BB15797 MW-33 DUP	EPA 9320	463413		
92559158033	BB15798 MW-5	EPA 9320	463413		
92559158034	BB15799 MW-34HA	EPA 9320	463413		
92559158035	BB15800 MW-6	EPA 9320	463413		
92559158036	BB15801 MW-7	EPA 9320	463413		
92559158037	BB15802 MW-44H	EPA 9320	463413		
92559158038	BB15803 MW-57H	EPA 9320	463413		
92559158039	BB15804 MW-54H	EPA 9320	463413		
92559158040	BB15805 MW-53H	EPA 9320	463413		
92559158041	BB15806 FB-5	EPA 9320	463413		
92559158042	BB15807 MW-35H	EPA 9320	463413		
92559158043	BB15808 MW-24	EPA 9320	463419		
92559158044	BB15809 MW-24 DUP	EPA 9320	463419		
92559158045	BB15810 MW-23	EPA 9320	463413		
92559158046	BB16094 MW-8	EPA 9320	463419		
92559158047	BB16095 MW-25	EPA 9320	463419		
92559158048	BB16096 MW-10	EPA 9320	463419		
92559158049	BB16097 MW-9	EPA 9320	463419		
92559158050	BB16098 FB-4	EPA 9320	463419		
92559158051	BB16099 MW-11	EPA 9320	463419		
92559158052	BB16100 MW-21	EPA 9320	463419		
92559158053	BB16101 MW-12	EPA 9320	463419		
92559158054	BB16102 MW-13	EPA 9320	463419		
92559158055	BB16103 MW-36H	EPA 9320	463419		
92559158056	BB16104 MW-37H	EPA 9320	463419		
92559158057	BB16105 MW-38H	EPA 9320	463419		
92559158058	BB16106 MW-39H	EPA 9320	463419		
92559158059	BB16107 MW-15	EPA 9320	463419		
92559158060	BB16108 MW-15 DUP	EPA 9320	463419		
92559158061	BB16109 MW-40H	EPA 9320	463423		
92559158062	BB16110 MW-14	EPA 9320	463423		
92559158063	BB16111 MW-41H	EPA 9320	463423		
92559158064	BB16112 EB-1	EPA 9320	463423		
92559158001	BB15384 MW-1	Total Radium Calculation	466273		
92559158002	BB15385 MW-2	Total Radium Calculation	466273		
92559158003	BB15386 MW-3	Total Radium Calculation	466273		
92559158004	BB15387 PZ-4	Total Radium Calculation	466273		
92559158005	BB15388 FB-1	Total Radium Calculation	466273		
92559158006	BB15389 MW-16	Total Radium Calculation	466273		
92559158009	BB15390 MW-17	Total Radium Calculation	466273		
92559158010	BB15391 MW-18	Total Radium Calculation	466273		
92559158011	BB15499 MW-43H	Total Radium Calculation	466273		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559158014	BB15500 MW-49H	Total Radium Calculation	466273		
92559158015	BB15501 MW-42H	Total Radium Calculation	466273		
92559158016	BB15502 FB-3	Total Radium Calculation	466273		
92559158017	BB15503 MW-48H	Total Radium Calculation	466273		
92559158018	BB15504 MW-48H DUP	Total Radium Calculation	466273		
92559158019	BB15505 MW-45H	Total Radium Calculation	466273		
92559158020	BB15506 MW-26	Total Radium Calculation	466273		
92559158021	BB15507 MW-27	Total Radium Calculation	466273		
92559158022	BB15508 MW-28	Total Radium Calculation	466273		
92559158023	BB15509 MW-29	Total Radium Calculation	466273		
92559158024	BB15510 MW-30	Total Radium Calculation	466273		
92559158025	BB15511 FB-2	Total Radium Calculation	466274		
92559158026	BB15793 MW-31	Total Radium Calculation	466274		
92559158029	BB15794 MW-32	Total Radium Calculation	466274		
92559158030	BB15795 MW-32 DUP	Total Radium Calculation	466274		
92559158031	BB15796 MW-33	Total Radium Calculation	466274		
92559158032	BB15797 MW-33 DUP	Total Radium Calculation	466274		
92559158033	BB15798 MW-5	Total Radium Calculation	466274		
92559158034	BB15799 MW-34HA	Total Radium Calculation	466274		
92559158035	BB15800 MW-6	Total Radium Calculation	466274		
92559158036	BB15801 MW-7	Total Radium Calculation	466274		
92559158037	BB15802 MW-44H	Total Radium Calculation	466274		
92559158038	BB15803 MW-57H	Total Radium Calculation	466274		
92559158039	BB15804 MW-54H	Total Radium Calculation	466274		
92559158040	BB15805 MW-53H	Total Radium Calculation	466274		
92559158041	BB15806 FB-5	Total Radium Calculation	466274		
92559158042	BB15807 MW-35H	Total Radium Calculation	466274		
92559158043	BB15808 MW-24	Total Radium Calculation	466274		
92559158044	BB15809 MW-24 DUP	Total Radium Calculation	466274		
92559158045	BB15810 MW-23	Total Radium Calculation	466274		
92559158046	BB16094 MW-8	Total Radium Calculation	466274		
92559158047	BB16095 MW-25	Total Radium Calculation	466276		
92559158048	BB16096 MW-10	Total Radium Calculation	466276		
92559158049	BB16097 MW-9	Total Radium Calculation	466276		
92559158050	BB16098 FB-4	Total Radium Calculation	466276		
92559158051	BB16099 MW-11	Total Radium Calculation	466276		
92559158052	BB16100 MW-21	Total Radium Calculation	466276		
92559158053	BB16101 MW-12	Total Radium Calculation	466276		
92559158054	BB16102 MW-13	Total Radium Calculation	466276		
92559158055	BB16103 MW-36H	Total Radium Calculation	466276		
92559158056	BB16104 MW-37H	Total Radium Calculation	466276		
92559158057	BB16105 MW-38H	Total Radium Calculation	466276		
92559158058	BB16106 MW-39H	Total Radium Calculation	466276		
92559158059	BB16107 MW-15	Total Radium Calculation	466276		
92559158060	BB16108 MW-15 DUP	Total Radium Calculation	466276		
92559158061	BB16109 MW-40H	Total Radium Calculation	466276		
92559158062	BB16110 MW-14	Total Radium Calculation	466276		
92559158063	BB16111 MW-41H	Total Radium Calculation	466276		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENE ASH POND WMWGREAP_1337
Pace Project No.: 92559158

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559158064	BB16112 EB-1	Total Radium Calculation	466276		

REPORT OF LABORATORY ANALYSIS

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Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace NC

WO#: 92559158



92559158

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 5140 344 9477

Label AF
LIMS Login Vpinc

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A 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#			Date and Initials of person examining contents:
	Yes	No	N/A	
Chain of Custody Present:	/			1. 10 D0411
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:		/		3. No Signature/printed name
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>pn12</u>
All containers meet method preservation requirements.	/			Initial when completed <u>AF</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:		/		18.
Trip Blank Custody Seals Present		/		
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: <u>AF</u> Date: <u>9/7/21</u> Survey Meter SN: <u>1503</u>

WO#: 30439036

PM: AES Due Date: 09/30/21 CLIENT: PACE_92_HUNC

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

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 Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Phone: 205-664-6197 Requested Due Date: 28 days	Report To: Laura Mickitt Copy To: Brooke Caton & Renee Jernigan Purchase Order #: LAPC10700668 Project Name: Plant Greene Ash Pond Project Number: WMMWGREATP 1337
Email To: lbmickit@southernco.com Fax:	Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 State/Location: AL CCR Pace Project Manager: Kevin.Herrino@pacelabs.com Pace Profile #: 13805

ITEM #	SAMPLEID One Character per box (A-Z, 0-9 /, -,) Sample ids must be unique	MATRIX Drinking Water Waste Water Storm Water Watershed Surface Water Wells Other Tissue	CODE DW WW SW SL AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPT)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives							Analytes Test	EPA 9316	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)							
						DATE	TIME	DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Melhanol									Other						
																											START	END	1	2	3	4
1	BB15384			MMW-1	GWG	8/17/2021	8:55	8/17/2021	1:45	1	X																					
2	BB15385			MMW-2	GWG	8/17/2021	9:55			1	X																					
3	BB15386			MMW-3	GWG	8/17/2021	10:45			1	X																					
4	BB15387			PZ-4	GWG	8/17/2021	12:20			1	X																					
5	BB15388			FB-1	GWG	8/17/2021	11:40			1	X																					
6	BB15389			MMW-16	GWG	8/17/2021	14:00			3	X																					
7	BB15390			MMW-17	GWG	8/17/2021	15:10			1	X																					
8	BB15391			MMW-18	GWG	8/17/2021	16:00			1	X																					
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS:	RELINQUISHED BY/AFFILIATION:
	Laura Mickitt/ APC GTL
	DATE: 8/26/2021 TIME: 14:00
	<i>[Signature]</i>
	DATE: 9-21-21 TIME: 10:30
	ACCEPTED BY/AFFILIATION:

SAMPLER NAME AND SIGNATURE	
PRINT NAME of SAMPLER:	DATE Signed:
SIGNATURE of SAMPLER:	
TEMP in C	SAMPLE CONDITIONS
Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)	

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:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkff@southemco.com
 Phone: 205-664-6197
 Requested Due Date: 28 days

Section B Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: JAPC10700668
 Project Name: Plant Greene Ash Pond
 Project Number: WMWWGREAP 1337

Section C Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Kevin Herrina@paceelabs.com
 Pace Profile #: 13805

Regulatory Agency: AL
 State Location: AL

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
				START DATE	END DATE			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Melhanol	Other				EPA 9316
1	BB15499	MMW-43H	GW G	8/18/2021	8:55		3		X							X		
2	BB15500	MMW-49H	GW G	8/18/2021	9:56		1	X								X		
3	BB15501	MMW-42H	GW G	8/18/2021	11:04		1	X								X		
4	BB15502	FB-3	GW G	8/18/2021	11:40		1	X								X		
5	BB15503	MMW-48H	GW G	8/18/2021	12:10		1	X								X		
6	BB15504	MMW-48H DUP	GW G	8/18/2021	12:10		1	X								X		
7	BB15505	MMW-45H	GW G	8/18/2021	13:33		1	X								X		
8																		
9																		
10																		
11																		
12																		

RELEASING BY / AFFILIATION: Laura Midkiff/ APC GTL
 DATE: 8/28/2021
 TIME: 14:00

ACCEPTED BY / AFFILIATION: _____
 DATE: _____
 TIME: _____

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: _____
 DATE Signed: _____

TEMP In C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____

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:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #9
 Calera, AL 35040
 Email To: lbmidkitt@southemco.com
 Phone: 205-654-5197
 Requested Due Date: 28 days

Section B
Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10700668
 Project Name: Plant Greene Ash Pond
 Project Number: WMMWGREAP 1337

Section C
Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #9
 Pace Quote: CCR
 Pace Project Manager: Kevin.Herring@pacelabs.com
 Pace Profile #: 13805

Regulatory Agency
 State / Location: AL
 Requested Analysis Filtered (Y/N)
 Residual Chlorine (Y/N)

ITEM #	SAMPLE ID <small>One Character per box: (A-Z, 0-9 / , -) Sample ids must be unique</small>	MATRIX <small>Dinking Water Water Waste Water Process Silt/Solid Wipe Air Other Tissue</small>	CODE <small>DW WT WW P SL MID AS OT TS</small>	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Requested Analysis Filtered (Y/N)	Y/N	DATE	TIME	SAMPLER CONDITIONS			
				START	END											TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1	BR15506		GWG	8/18/2021	9:20			1	X										
2	BR15507		GWG	8/18/2021	10:15			1	X										
3	BR15508		GWG	8/18/2021	11:07			1	X										
4	BR15509		GWG	8/18/2021	12:05			1	X										
5	BR15510		GWG	8/18/2021	13:00			1	X										
6	BR15511		GWG	8/18/2021	13:15			1	X										
7																			
8																			
9																			
10																			
11																			
12																			
REINQUISHED BY / AFFILIATION: Laura Midkiff/ APC GTL				DATE:	8/28/2021	TIME:	14:00					DATE Signed:							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: _____

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: Company: Alabama Power Company, Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040, Email To: lbmidkiff@southalabama.com, Phone: 205-664-5197, Requested Due Date: 28 days

Section B Required Project Information: Report To: Laura Mickitt, Copy To: Brooke Caron & Renee Jernigan, Project Name: Plant Greene Ash Pond, Project Number: WMMWGREAT 1337

Section C Invoice Information: Attention: Laura Mickitt, Company Name: Alabama Power Co., Address: 744 Highway 87 GSC Bldg #8, Face Quote: CCR, Face Project Manager: Kevin Herring@peacelabs.com, Face Profile #: 13805

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS																
				START	END					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3					Melhanol	Other	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)							
1	BB15793	MMW-31	GWG	8/23/2021	12:01			3	X							X																				
2	BB15794	MMW-32	GWG	8/23/2021	13:02			1	X							X																				
3	BB15795	MMW-32 DUP	GWG	8/23/2021	13:02			1	X							X																				
4	BB15796	MMW-33	GWG	8/23/2021	14:15			1	X							X																				
5	BB15797	MMW-33 DUP	GWG	8/23/2021	14:15			1	X							X																				
6	BB15798	MMW-5	GWG	8/23/2021	15:26			1	X							X																				
7	BB15799	MMW-34/A	GWG	8/23/2021	16:21			1	X							X																				
8	BB15800	MMW-5	GWG	8/24/2021	10:35			1	X							X																				
9	BB15801	MMW-7	GWG	8/24/2021	11:21			1	X							X																				
10																																				
11																																				
12																																				

RELINQUISHED BY / AFFILIATION: Laura Mickitt/ APC GTL DATE: 8/28/2021 TIME: 14:00

ACCEPTED BY / AFFILIATION: _____ DATE: _____ TIME: _____

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 accurately.

Page : 5 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Laura Mickitt	Attention:	Laura Mickitt
Address:	744 Highway 87 GSC Bld #8 Calera, AL 35040	Copy To:	Brooke Catton & Renee Jernigan	Company Name:	Alabama Power Co.
Email To:	lbmidkitt@southernco.com	Purchase Order #:	APC10700688	Address:	744 Highway 87 GSC Bld #8 Calera, AL 35040
Phone:	205-664-6197	Project Name:	Plant Greene Ash Pond	Pace Quote:	CCR
Requested Due Date:	28 days	Project Number:	WMWGREAP 1337	Pace Project Manager:	Kevin Herring@pacealabs.com
				Pace Profile #:	13805
				Requested Analysis Filtered (Y/N)	
				Regulatory Agency	AL
				State / Location	AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Process Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL DL WP AP OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		PRESERVATIVES		ANALYSES TEST		TEMP in C	SAMPLE CONDITIONS							
						DATE	TIME	DATE	TIME	Y/N	Y/N		Y/N	Y/N	Y/N	Y/N				
						START	END	UNPRESERVED	H2SO4	HNO3	HCl		NaOH	Na2S2O3	Methanol	Other	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D
1	BB15802			GW G	G	8/23/2021	12:28													
2	BB15803			GW G	G	8/23/2021	13:25	X												
3	BB15804			GW G	G	8/23/2021	14:30	X												
4	BB15805			GW G	G	8/23/2021	15:30	X												
5	BB15806			GW G	G	8/23/2021	16:00	X												
6	BB15807			GW G	G	8/24/2021	8:55	X												
7	BB15808			GW G	G	8/24/2021	9:45	X												
8	BB15809			GW G	G	8/24/2021	9:45	X												
9	BB15810			GW G	G	8/24/2021	10:50	X												
10																				
11																				
12																				

RELEASING BY / AFFILIATION				ACCEPTED BY / AFFILIATION			
Laura Mickitt/ APC GTL				8/28/2021 14:00			
SAMPLER NAME AND SIGNATURE				DATE Signed:			
PRINT Name of SAMPLER:							
SIGNATURE of SAMPLER:							

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:

Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmickiff@southernco.com
 Phone: 205-664-6197 Fax:
 Requested Due Date: 28 days

Section B
 Required Project Information:

Report To: Laura Mickiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10700668
 Project Name: Plant Greene Ash Pond
 Project Number: WMMWGREAP 1337

Section C
 Invoice Information:

Attention: Laura Mickiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Kevin Herring@pacelabs.com
 Pace Profile #: 13805

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique</small>	MATRIX <small>Drinking Water Water Waste Water Product Seawater Oil Milk Other Tissue</small>	CODE <small>DW WT WW P SL OL WP WR OT TS</small>	COLLECTED		DATE		SAMPLE TEMP AT COLLECTION		PRESERVATIVES							ANALYSES TEST				Residual Chlorine (Y/N)	SAMPLE CONDITIONS						
				DATE	TIME	DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	EPA 9315	EPA 9320	Total Radium Sum	Matrix Spike/Matrix Spike D	Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)					
1	BB16094	MW-8	GW-G	8/24/2021	12:24				1	X	X	X	X	X	X	X	X	X	X	X								
2	BB16095	MW-25	GW-G	8/24/2021	13:32				1	X	X	X	X	X	X	X	X	X	X	X								
3	BB16096	MW-10	GW-G	8/24/2021	15:02				1	X	X	X	X	X	X	X	X	X	X	X								
4	BB16097	MW-9	GW-G	8/24/2021	15:47				1	X	X	X	X	X	X	X	X	X	X	X								
5	BB16098	FB-4	GW-G	8/24/2021	16:00				1	X	X	X	X	X	X	X	X	X	X	X								
6	BB16099	MW-11	GW-G	8/25/2021	9:00				1	X	X	X	X	X	X	X	X	X	X	X								
7	BB16100	MW-21	GW-G	8/25/2021	9:53				1	X	X	X	X	X	X	X	X	X	X	X								
8	BB16101	MW-12	GW-G	8/25/2021	10:39				1	X	X	X	X	X	X	X	X	X	X	X								
9	BB16102	MW-13	GW-G	8/25/2021	11:37				1	X	X	X	X	X	X	X	X	X	X	X								
10																												
11																												
12																												
ADDITIONAL COMMENTS		RELINQUISHED BY/AFFILIATION		DATE	TIME	ACCEPTED BY/AFFILIATION		DATE	TIME	Requester Analysis Filtered (Y/N)		Regulatory Agency		State / Location			AL											
		Laura Mickiff/ APC GTL		8/28/2021	14:00							Regulatory Agency		State / Location			AL											

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: JC2
 Date: 9/16/2021
 Worklist: 62599
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2237335
MB concentration:	0.400
MB 2 Sigma CSU:	0.360
MB MDC:	0.733
MB Numerical Performance Indicator:	2.18
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	N
Count Date:	9/23/2021	LCS062599	LCS062599
Spike I.D.:	21-029		
Decay Corrected Spike Concentration (pCi/mL):	38.110		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.815		
Target Conc. (pCi/L, g, F):	4.675		
Uncertainty (Calculated):	0.229		
Result (pCi/L, g, F):	4.670		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.078		
Numerical Performance Indicator:	-0.01		
Percent Recovery:	99.88%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/23/2021	
Sample I.D.:	92559158026	
Sample MS I.D.:	92559158027	
Sample MSD I.D.:	92559158028	
Spike I.D.:	21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.503	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.817	
MS Target Conc. (pCi/L, g, F):	9.427	
MSD Aliquot (L, g, F):	0.810	
MSD Target Conc. (pCi/L, g, F):	9.511	
MS Spike Uncertainty (calculated):	0.462	
MSD Spike Uncertainty (calculated):	0.466	
Sample Result:	0.324	
Sample Matrix Spike Result:	0.343	
Sample Matrix Spike Duplicate Result:	7.266	
Sample Matrix Spike Duplicate Result:	1.514	
Sample Matrix Spike Duplicate Result:	9.639	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.959	
MS Numerical Performance Indicator:	-3.008	
MSD Numerical Performance Indicator:	-0.188	
MS Percent Recovery:	73.63%	
MSD Percent Recovery:	97.94%	
MS Status vs Numerical Indicator:	Fail****	
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	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 Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result 2 Sigma CSU (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?	Duplicate Numerical Performance Indicator:
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.	92559158026
See Below ##	92559158027
	92559158028
	7.266
	1.514
	9.639
	1.959
	-1.879
	28.34%
	Pass
	Pass
	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

MS passes 90 Recovery Criteria

****If all other 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.

Quetz

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CLA
Date: 9/17/2021
Worklist: 62604
Matrix: DW

Method Blank Assessment	LCS/MSD ID	Y/N
MB Sample ID	2237357	
MB concentration:	0.152	
M/B Counting Uncertainty:	0.116	
MB MDC:	0.199	
MB Numerical Performance Indicator:	2.57	
MB Status vs Numerical Indicator:	N/A	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCS/MSD ID	Y/N
Count Date:	9/23/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.034	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.510	
Target Conc. (pCi/L, g, F):	4.715	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.665	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.531	
Numerical Performance Indicator:	-0.22	
Percent Recovery:	98.72%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment	LCS/MSD ID	Y/N
Duplicate Sample I.D.:	LCS/MSD62604	
Duplicate Result (pCi/L, g, F):	4.655	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.531	
Sample Duplicate Result (pCi/L, g, F):	3.665	
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.530	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	2.586	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.53%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Sample Matrix Spike Control Assessment	MS/MSD ID	MS/MSD 2
Sample Collection Date:	8/17/2021	
Sample I.D.:	92557700004	
Sample MS I.D.:	92557700005	
Sample MSD I.D.:	92557700006	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.035	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.20	
MS Target Conc. (pCi/L, g, F):	0.303	
MSD Aliquot (L, g, F):	15.874	
MSD Target Conc. (pCi/L, g, F):	0.296	
MS Spike Uncertainty (calculated):	16.234	
MSD Spike Uncertainty (calculated):	0.190	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.195	
Sample Matrix Spike Result:	0.023	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.254	
Matrix Spike Duplicate Result:	14.576	
Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.215	
MS Numerical Performance Indicator:	16.071	
MS/MSD Duplicate Status vs Numerical Indicator:	-2.061	
MS/MSD Duplicate Status vs RPD:	-0.277	
MS/MSD Lower % Recovery Limits:	91.68%	
MS/MSD Upper % Recovery Limits:	98.86%	
MS Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	N/A	
MSD Status vs Numerical Indicator:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Duplicate Status vs Numerical Indicator:	125%	
MS/MSD Duplicate Status vs RPD:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD ID	MS/MSD 2
Sample I.D.:	92557700004	
Sample MS I.D.:	92557700005	
Sample MSD I.D.:	92557700006	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	14.576	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.215	
Duplicate Numerical Performance Indicator:	16.071	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	-1.666	
MS/MSD Duplicate Status vs Numerical Indicator:	7.53%	
MS/MSD Duplicate Status vs RPD:	N/A	
% RPD Limit:	Pass	
	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

WAM 9/23/21

Initial MD

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 9/15/2021
Worklist: 62592
Matrix: WT

Method Blank Assessment	
MB Sample ID	2237319
MB concentration:	0.656
M/B 2 Sigma CSU:	0.365
MB MDC:	0.657
MB Numerical Performance Indicator:	3.52
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	Count Date:	LCSD62592
Spike I.D.:	21-029	
Decay Corrected Spike Concentration (pCi/mL):	38.188	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.817	
Target Conc. (pCi/L, g, F):	4.676	
Uncertainty (Calculated):	0.229	
Result (pCi/L, g, F):	4.401	
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.027	
Numerical Performance Indicator:	-0.51	
Percent Recovery:	94.12%	
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:

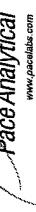
*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/17/2021	
Sample I.D.:	92559158006	
Sample MS I.D.:	92559158007	
Sample MSD I.D.:	92559158008	
Spike I.D.:	21-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.579	
Spike Volume Used in MSD (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.808	
MS Target Conc. (pCi/L, g, F):	9.547	
MSD Aliquot (L, g, F):	0.810	
MSD Target Conc. (pCi/L, g, F):	9.528	
MS Spike Uncertainty (calculated):	0.468	
MSD Spike Uncertainty (calculated):	0.467	
Sample Result:	0.257	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.307	
Sample Matrix Spike Result:	8.817	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.758	
Sample Matrix Spike Duplicate Result:	8.537	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.710	
MS Numerical Performance Indicator:	-1.049	
MSD Numerical Performance Indicator:	-1.360	
MS Percent Recovery:	89.65%	
MSD Percent Recovery:	86.90%	
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.:	92559158006
Sample MS I.D.:	92559158007
Sample MSD I.D.:	92559158008
Sample Matrix Spike Result:	8.817
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.758
Sample Matrix Spike Duplicate Result:	8.537
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.710
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.223
Duplicate Numerical Performance Indicator:	3.12%
(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%

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Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: JC2
Date: 9/16/2021
Worklist: 62596
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2237326
MB concentration:	0.853
M/B 2 Sigma CSU:	0.443
MB MDC:	0.793
MB Numerical Performance Indicator:	3.78
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		N
LCS2 (Y or N)?		LCS2596
Count Date:	9/23/2021	
Spike I.D.:	21-029	
Decay Corrected Spike Concentration (pCi/mL):	38.112	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.826	
Target Conc. (pCi/L, g, F):	4.812	
Uncertainty (Calculated):	0.226	
Result (pCi/L, g, F):	3.904	
LCS/LCS2 2 Sigma CSU (pCi/L, g, F):	0.924	
Numerical Performance Indicator:	-1.46	
Percent Recovery:	84.65%	
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?	
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:	8/18/2021		
Sample I.D.:	92559158011		
Sample MS I.D.:	92559158012		
Sample MSD I.D.:	92559158013		
Spike I.D.:	21-029		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.569		
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):	9.574		
MSD Aliquot (L, g, F):	0.802		
MSD Target Conc. (pCi/L, g, F):	9.619		
MS Spike Uncertainty (calculated):	0.469		
MSD Spike Uncertainty (calculated):	0.471		
Sample Result:	1.084		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.471		
Sample Matrix Spike Result:	10.109		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.011		
Sample Matrix Spike Duplicate Result:	13.094		
Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.542		
MS Numerical Performance Indicator:	-0.508		
MSD Numerical Performance Indicator:	1.784		
MS Percent Recovery:	94.27%		
MSD Percent Recovery:	124.86%		
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.:	92559158011
Sample MS I.D.:	92559158012
Sample MSD I.D.:	92559158013
Spike I.D.:	21-029
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.011
Sample Matrix Spike Duplicate Result:	13.094
Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.542
Duplicate Numerical Performance Indicator:	-1.805
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	27.92%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

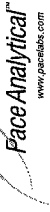
Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Jahid

W. J. ...

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 9/15/2021
Worklist: 62603
Matrix: WT

Method Blank Assessment

MB Sample ID: 2237354
MB concentration: 0.479
MB 2 Sigma CSU: 0.336
MB MDC: 0.631
MB Numerical Performance Indicator: 2.80
MB Status vs Numerical Indicator: Warning
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	N
LCSD62603	LCSD62603

Count Date: 9/17/2021
Spike I.D.: 21-029
Decay Corrected Spike Concentration (pCi/mL): 38.186
Volume Used (mL): 0.10
Aliquot Volume (L, g, F): 0.805
Target Conc. (pCi/L, g, F): 4.742
Uncertainty (Calculated): 0.232
Result (pCi/L, g, F): 4.744
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F): 1.091
Numerical Performance Indicator: 0.00
Percent Recovery: 100.04%
Status vs Numerical Indicator: M/A
Status vs Recovery: Pass
Upper % Recovery Limits: 136%
Lower % Recovery Limits: 60%

Duplicate Sample Assessment

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):
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:

Enter Duplicate sample IDs if other than LCSD/LCSD in the space below.

See Below ##

Sample Matrix Spike Control Assessment

Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.:	92557700004	92557700004
Sample MS I.D.:	92557700005	92556995006
Sample MSD I.D.:	92557700006	92556995007
Spike I.D.:	21-029	21-029
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.580	38.580
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.809	0.809
MS Target Conc. (pCi/L, g, F):	9.541	9.541
MSD Aliquot (L, g, F):	0.805	0.806
MSD Target Conc. (pCi/L, g, F):	9.580	9.572
MS Spike Uncertainty (calculated):	0.468	0.468
MSD Spike Uncertainty (calculated):	0.469	0.469
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.537	0.246
Sample Matrix Spike Result:	0.352	0.322
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	8.736	9.748
Sample Matrix Spike Duplicate Result:	1.762	1.944
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	7.071	7.965
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.457	1.640
MS Numerical Performance Indicator:	-1.417	-0.038
MSD Numerical Performance Indicator:	-3.801	-2.092
MS Percent Recovery:	85.93%	99.58%
MSD Percent Recovery:	68.20%	80.64%
MS Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Fail	Warning
MSD Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	MS/MSD 1	MS/MSD 2
Sample MS I.D.:	92557700004	92556995006
Sample MSD I.D.:	92557700005	92556995007
Spike I.D.:	21-029	21-029
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	8.736	9.748
Sample Matrix Spike Duplicate Result:	1.762	1.944
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	7.071	7.965
Duplicate Numerical Performance Indicator:	1.457	1.640
Duplicate RPD:	23.00%	21.02%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: *Quality*

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-226
Analyst: LAL
Date: 9/14/2021
Worklist: 62594
Matrix: DW

Method Blank Assessment	
MB Sample ID	2237321
MB concentration:	0.199
M/B Counting Uncertainty:	0.125
MB MDC:	0.221
MB Numerical Performance Indicator:	3.12
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:	9/29/2021	LCS62594	9/29/2021
Spike I.D.:	19-033		19-033
Decay Corrected Spike Concentration (pCi/mL):	24.034		24.034
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.504		0.504
Target Conc. (pCi/L, g, F):	4.790		4.766
Uncertainty (Calculated):	0.057		0.057
Result (pCi/L, g, F):	5.669		5.028
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.520		0.485
Numerical Performance Indicator:	3.29		1.05
Percent Recovery:	118.36%		105.48%
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.:	LCS62594
Duplicate Sample I.D.:	LCSD62594
Sample Result (pCi/L, g, F):	5.669
Sample Duplicate Result (pCi/L, g, F):	5.520
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.485
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.768
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.50%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/17/2021	92559158006	92559158007
Sample I.D.:	92559158006	92559158007	92559158008
Sample MS I.D.:	92559158007	92559158008	92559158009
Sample MSD I.D.:	92559158008	92559158009	92559158010
Spike I.D.:	19-033	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.035	24.035	24.035
Spike Volume Used in MS (mL):	0.20	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20	0.20
MS Aliquot (L, g, F):	0.312	0.312	0.312
MS Target Conc. (pCi/L, g, F):	15.414	15.414	15.414
MSD Aliquot (L, g, F):	0.254	0.254	0.254
MSD Target Conc. (pCi/L, g, F):	18.922	18.922	18.922
MS Spike Uncertainty (calculated):	0.185	0.185	0.185
MSD Spike Uncertainty (calculated):	0.227	0.227	0.227
Sample Result:	0.233	0.233	0.233
Sample Result Counting Uncertainty (pCi/L, g, F):	0.216	0.216	0.216
Sample Matrix Spike Result:	16.437	16.437	16.437
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	1.150	1.150	1.150
Sample Matrix Spike Duplicate Result:	19.021	19.021	19.021
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.376	1.376	1.376
MS Numerical Performance Indicator:	1.308	1.308	1.308
MSD Numerical Performance Indicator:	-0.187	-0.187	-0.187
MS Percent Recovery:	105.13%	105.13%	105.13%
MSD Percent Recovery:	96.29%	96.29%	96.29%
MS Status vs Numerical Indicator:	N/A	N/A	N/A
MSD Status vs Numerical Indicator:	N/A	N/A	N/A
MS Status vs Recovery:	Pass	Pass	Pass
MSD Status vs Recovery:	Pass	Pass	Pass
MS/MSD Upper % Recovery Limits:	125%	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92559158006
Sample MS I.D.:	92559158007
Sample MSD I.D.:	92559158008
Sample Matrix Spike Result:	16.437
Sample Matrix Spike Duplicate Result:	1.150
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	19.021
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.376
Duplicate Numerical Performance Indicator:	-2.825
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	5.71%
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:

Handwritten notes: "19-033", "9/13/21", "AM 9/30/21"

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 9/15/2021
Worklist: 62597
Matrix: DW



Method Blank Assessment	
MB Sample ID	2237328
MB concentration:	0.044
M/B Counting Uncertainty:	0.107
MB MDC:	0.254
MB Numerical Performance Indicator:	0.80
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

LCS/D (Y or N)?	LCS/D 62597	
	Y	N
Count Date:	9/29/2021	9/29/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.034	24.034
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.500
Target Conc. (pCi/L, g, F):	4.805	4.805
Uncertainty (Calculated):	0.058	0.058
Result (pCi/L, g, F):	5.165	5.361
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.517	0.547
Numerical Performance Indicator:	1.34	1.98
Percent Recovery:	107.42%	111.57%
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.:	LCS62597
Duplicate Sample I.D.:	LCS62597
Sample Result (pCi/L, g, F):	5.165
Sample Duplicate Result (pCi/L, g, F):	0.517
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	5.361
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.547
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.512
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.79%
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:		8/18/2021	
Sample I.D.:		92559158011	
Sample MS I.D.:		92559158012	
Sample MSD I.D.:		92559158013	
Spike I.D.:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		24.035	
Spike Volume Used in MS (mL):		0.20	
MS Aliquot (L, g, F):		0.20	
MS Target Conc. (pCi/L, g, F):		16.827	
MSD Aliquot (L, g, F):		0.277	
MSD Target Conc. (pCi/L, g, F):		17.345	
MS Spike Uncertainty (calculated):		0.202	
MSD Spike Uncertainty (calculated):		0.208	
Sample Result:		0.569	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.259	
Sample Matrix Spike Result:		17.534	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		1.256	
Sample Matrix Spike Duplicate Result:		17.875	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		1.317	
MS Numerical Performance Indicator:		0.223	
MSD Numerical Performance Indicator:		-0.041	
MS Percent Recovery:		100.88%	
MSD Percent Recovery:		99.84%	
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.:	92559158011
Sample MS I.D.:	92559158012
Sample MSD I.D.:	92559158013
Sample Matrix Spike Result:	17.534
Sample Matrix Spike Duplicate Result:	17.875
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	1.256
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.317
Duplicate Numerical Performance Indicator:	-0.368
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.04%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

19/09/21
LAL

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CLA
Date: 9/15/2021
Worklist: 62600
Matrix: DW

Method Blank Assessment	
MB Sample ID	2237342
MB concentration:	0.050
M/B Counting Uncertainty:	0.090
MB MDC:	0.204
MB Numerical Performance Indicator:	1.09
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:		LCS62600	LCS62600
Spike I.D.:	19-033	9/29/2021	9/29/2021
Decay Corrected Spike Concentration (pCi/mL):	24.034	19-033	19-033
Volume Used (mL):	0.10	24.034	24.034
Aliquot Volume (L, g, F):	0.502	0.10	0.10
Target Conc. (pCi/L, g, F):	4.785	0.511	0.511
Uncertainty (Calculated):	0.057	4.702	4.702
Result (pCi/L, g, F):	4.821	0.056	0.056
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.509	4.503	4.503
Numerical Performance Indicator:	0.14	0.490	0.490
Percent Recovery:	100.77%	-0.79	-0.79
Status vs Numerical Indicator:	N/A	95.76%	95.76%
Status vs Recovery:	Pass	N/A	N/A
Upper % Recovery Limits:	125%	Pass	Pass
Lower % Recovery Limits:	75%	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS62600
Duplicate Sample I.D.:	LCS62600
Sample Result (pCi/L, g, F):	4.821
Sample Duplicate Result (pCi/L, g, F):	0.509
Sample Result Counting Uncertainty (pCi/L, g, F):	4.503
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.490
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.883
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.10%
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:		8/23/2021	
Sample I.D.:	92559158026		
Sample MS I.D.:	92559158027		
Sample MSD I.D.:	92559158028		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.035		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.292		
MSD Aliquot (L, g, F):	16.473		
MS Target Conc. (pCi/L, g, F):	0.307		
MSD Target Conc. (pCi/L, g, F):	15.680		
MS Spike Uncertainty (calculated):	0.196		
MSD Spike Uncertainty (calculated):	0.188		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.021		
Sample Matrix Spike Result:	16.143		
Sample Matrix Spike Duplicate Result:	1.169		
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	15.574		
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.178		
MS Numerical Performance Indicator:	-0.577		
MSD Numerical Performance Indicator:	-0.207		
MS Percent Recovery:	97.87%		
MSD Percent Recovery:	99.19%		
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.:	92559158026
Sample MS I.D.:	92559158027
Sample MSD I.D.:	92559158028
Sample Matrix Spike Result:	16.143
Sample Matrix Spike Duplicate Result:	1.169
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	15.574
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.178
Duplicate Numerical Performance Indicator:	0.672
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.34%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

9/30/21
9/30/21

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-1	8/17/2021 8:21	Conductivity	1406.62	uS/cm
GC-AP-MW-1	8/17/2021 8:21	DO	1.4	mg/L
GC-AP-MW-1	8/17/2021 8:21	Depth to Water Detail	17.77	ft
GC-AP-MW-1	8/17/2021 8:21	Oxidation Reduction Potention	3.63	mv
GC-AP-MW-1	8/17/2021 8:21	pH	5.46	SU
GC-AP-MW-1	8/17/2021 8:21	Temperature	21.57	C
GC-AP-MW-1	8/17/2021 8:21	Turbidity	0.26	NTU
GC-AP-MW-1	8/17/2021 8:26	Conductivity	1464.09	uS/cm
GC-AP-MW-1	8/17/2021 8:26	DO	1.22	mg/L
GC-AP-MW-1	8/17/2021 8:26	Depth to Water Detail	17.77	ft
GC-AP-MW-1	8/17/2021 8:26	Oxidation Reduction Potention	4.01	mv
GC-AP-MW-1	8/17/2021 8:26	pH	5.48	SU
GC-AP-MW-1	8/17/2021 8:26	Temperature	21.57	C
GC-AP-MW-1	8/17/2021 8:26	Turbidity	0.4	NTU
GC-AP-MW-1	8/17/2021 8:31	Conductivity	1471.05	uS/cm
GC-AP-MW-1	8/17/2021 8:31	DO	1.1	mg/L
GC-AP-MW-1	8/17/2021 8:31	Depth to Water Detail	17.77	ft
GC-AP-MW-1	8/17/2021 8:31	Oxidation Reduction Potention	6.37	mv
GC-AP-MW-1	8/17/2021 8:31	pH	5.47	SU
GC-AP-MW-1	8/17/2021 8:31	Temperature	21.55	C
GC-AP-MW-1	8/17/2021 8:31	Turbidity	0.21	NTU
GC-AP-MW-1	8/17/2021 8:36	Conductivity	1459.78	uS/cm
GC-AP-MW-1	8/17/2021 8:36	DO	1.04	mg/L
GC-AP-MW-1	8/17/2021 8:36	Depth to Water Detail	17.77	ft
GC-AP-MW-1	8/17/2021 8:36	Oxidation Reduction Potention	8.72	mv
GC-AP-MW-1	8/17/2021 8:36	pH	5.47	SU
GC-AP-MW-1	8/17/2021 8:36	Temperature	21.56	C
GC-AP-MW-1	8/17/2021 8:36	Turbidity	0.17	NTU
GC-AP-MW-1	8/17/2021 8:41	Conductivity	1452.91	uS/cm
GC-AP-MW-1	8/17/2021 8:41	DO	0.96	mg/L
GC-AP-MW-1	8/17/2021 8:41	Depth to Water Detail	17.77	ft
GC-AP-MW-1	8/17/2021 8:41	Oxidation Reduction Potention	9.95	mv
GC-AP-MW-1	8/17/2021 8:41	pH	5.49	SU
GC-AP-MW-1	8/17/2021 8:41	Temperature	21.45	C
GC-AP-MW-1	8/17/2021 8:41	Turbidity	0.17	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-3	8/17/2021 10:24	Conductivity	541.07	uS/cm
GC-AP-MW-3	8/17/2021 10:24	DO	1.07	mg/L
GC-AP-MW-3	8/17/2021 10:24	Depth to Water Detail	13.62	ft
GC-AP-MW-3	8/17/2021 10:24	Oxidation Reduction Potention	-1.31	mv
GC-AP-MW-3	8/17/2021 10:24	pH	6.26	SU
GC-AP-MW-3	8/17/2021 10:24	Temperature	22.26	C
GC-AP-MW-3	8/17/2021 10:24	Turbidity	0.3	NTU
GC-AP-MW-3	8/17/2021 10:29	Conductivity	545.37	uS/cm
GC-AP-MW-3	8/17/2021 10:29	DO	0.95	mg/L
GC-AP-MW-3	8/17/2021 10:29	Depth to Water Detail	13.62	ft
GC-AP-MW-3	8/17/2021 10:29	Oxidation Reduction Potention	-3.47	mv
GC-AP-MW-3	8/17/2021 10:29	pH	6.16	SU
GC-AP-MW-3	8/17/2021 10:29	Temperature	22.35	C
GC-AP-MW-3	8/17/2021 10:29	Turbidity	0.38	NTU
GC-AP-MW-3	8/17/2021 10:34	Conductivity	551.41	uS/cm
GC-AP-MW-3	8/17/2021 10:34	DO	0.92	mg/L
GC-AP-MW-3	8/17/2021 10:34	Depth to Water Detail	13.62	ft
GC-AP-MW-3	8/17/2021 10:34	Oxidation Reduction Potention	-6.57	mv
GC-AP-MW-3	8/17/2021 10:34	pH	6.12	SU
GC-AP-MW-3	8/17/2021 10:34	Temperature	22.39	C
GC-AP-MW-3	8/17/2021 10:34	Turbidity	0.34	NTU
GC-AP-MW-3	8/17/2021 10:39	Conductivity	554.26	uS/cm
GC-AP-MW-3	8/17/2021 10:39	DO	0.87	mg/L
GC-AP-MW-3	8/17/2021 10:39	Depth to Water Detail	13.62	ft
GC-AP-MW-3	8/17/2021 10:39	Oxidation Reduction Potention	-10.24	mv
GC-AP-MW-3	8/17/2021 10:39	pH	6.13	SU
GC-AP-MW-3	8/17/2021 10:39	Temperature	22.38	C
GC-AP-MW-3	8/17/2021 10:39	Turbidity	0.46	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	8/17/2021 13:43	Conductivity	778.08	uS/cm
GC-AP-MW-16	8/17/2021 13:43	DO	0.31	mg/L
GC-AP-MW-16	8/17/2021 13:43	Depth to Water Detail	32.84	ft
GC-AP-MW-16	8/17/2021 13:43	Oxidation Reduction Potention	55.59	mv
GC-AP-MW-16	8/17/2021 13:43	pH	6.48	SU
GC-AP-MW-16	8/17/2021 13:43	Temperature	20.21	C
GC-AP-MW-16	8/17/2021 13:43	Turbidity	25.3	NTU
GC-AP-MW-16	8/17/2021 13:48	Conductivity	780.17	uS/cm
GC-AP-MW-16	8/17/2021 13:48	DO	0.26	mg/L
GC-AP-MW-16	8/17/2021 13:48	Depth to Water Detail	32.84	ft
GC-AP-MW-16	8/17/2021 13:48	Oxidation Reduction Potention	52.39	mv
GC-AP-MW-16	8/17/2021 13:48	pH	6.35	SU
GC-AP-MW-16	8/17/2021 13:48	Temperature	20.12	C
GC-AP-MW-16	8/17/2021 13:48	Turbidity	20.5	NTU
GC-AP-MW-16	8/17/2021 13:53	Conductivity	780.47	uS/cm
GC-AP-MW-16	8/17/2021 13:53	DO	0.24	mg/L
GC-AP-MW-16	8/17/2021 13:53	Depth to Water Detail	32.84	ft
GC-AP-MW-16	8/17/2021 13:53	Oxidation Reduction Potention	45.45	mv
GC-AP-MW-16	8/17/2021 13:53	pH	6.33	SU
GC-AP-MW-16	8/17/2021 13:53	Temperature	20.07	C
GC-AP-MW-16	8/17/2021 13:53	Turbidity	13.5	NTU
GC-AP-MW-16	8/17/2021 13:58	Conductivity	785.59	uS/cm
GC-AP-MW-16	8/17/2021 13:58	DO	0.23	mg/L
GC-AP-MW-16	8/17/2021 13:58	Depth to Water Detail	32.84	ft
GC-AP-MW-16	8/17/2021 13:58	Oxidation Reduction Potention	39.53	mv
GC-AP-MW-16	8/17/2021 13:58	pH	6.33	SU
GC-AP-MW-16	8/17/2021 13:58	Temperature	19.95	C
GC-AP-MW-16	8/17/2021 13:58	Turbidity	7.6	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-17	8/17/2021 14:41	Conductivity	798.21	uS/cm
GC-AP-MW-17	8/17/2021 14:41	DO	0.34	mg/L
GC-AP-MW-17	8/17/2021 14:41	Depth to Water Detail	29.47	ft
GC-AP-MW-17	8/17/2021 14:41	Oxidation Reduction Potention	-15.37	mv
GC-AP-MW-17	8/17/2021 14:41	pH	6.77	SU
GC-AP-MW-17	8/17/2021 14:41	Temperature	21.38	C
GC-AP-MW-17	8/17/2021 14:41	Turbidity	72	NTU
GC-AP-MW-17	8/17/2021 14:46	Conductivity	816.59	uS/cm
GC-AP-MW-17	8/17/2021 14:46	DO	0.28	mg/L
GC-AP-MW-17	8/17/2021 14:46	Depth to Water Detail	29.47	ft
GC-AP-MW-17	8/17/2021 14:46	Oxidation Reduction Potention	-26.03	mv
GC-AP-MW-17	8/17/2021 14:46	pH	6.73	SU
GC-AP-MW-17	8/17/2021 14:46	Temperature	21	C
GC-AP-MW-17	8/17/2021 14:46	Turbidity	26.1	NTU
GC-AP-MW-17	8/17/2021 14:51	Conductivity	828.62	uS/cm
GC-AP-MW-17	8/17/2021 14:51	DO	0.26	mg/L
GC-AP-MW-17	8/17/2021 14:51	Depth to Water Detail	29.47	ft
GC-AP-MW-17	8/17/2021 14:51	Oxidation Reduction Potention	-32.35	mv
GC-AP-MW-17	8/17/2021 14:51	pH	6.67	SU
GC-AP-MW-17	8/17/2021 14:51	Temperature	20.83	C
GC-AP-MW-17	8/17/2021 14:51	Turbidity	19.1	NTU
GC-AP-MW-17	8/17/2021 14:56	Conductivity	831.92	uS/cm
GC-AP-MW-17	8/17/2021 14:56	DO	0.25	mg/L
GC-AP-MW-17	8/17/2021 14:56	Depth to Water Detail	29.47	ft
GC-AP-MW-17	8/17/2021 14:56	Oxidation Reduction Potention	-36.98	mv
GC-AP-MW-17	8/17/2021 14:56	pH	6.62	SU
GC-AP-MW-17	8/17/2021 14:56	Temperature	20.94	C
GC-AP-MW-17	8/17/2021 14:56	Turbidity	12.8	NTU
GC-AP-MW-17	8/17/2021 15:01	Conductivity	833.69	uS/cm
GC-AP-MW-17	8/17/2021 15:01	DO	0.24	mg/L
GC-AP-MW-17	8/17/2021 15:01	Depth to Water Detail	29.47	ft
GC-AP-MW-17	8/17/2021 15:01	Oxidation Reduction Potention	-41.05	mv
GC-AP-MW-17	8/17/2021 15:01	pH	6.59	SU
GC-AP-MW-17	8/17/2021 15:01	Temperature	20.95	C
GC-AP-MW-17	8/17/2021 15:01	Turbidity	8.58	NTU
GC-AP-MW-17	8/17/2021 15:06	Conductivity	835.21	uS/cm
GC-AP-MW-17	8/17/2021 15:06	DO	0.24	mg/L
GC-AP-MW-17	8/17/2021 15:06	Depth to Water Detail	29.47	ft
GC-AP-MW-17	8/17/2021 15:06	Oxidation Reduction Potention	-44.14	mv
GC-AP-MW-17	8/17/2021 15:06	pH	6.57	SU
GC-AP-MW-17	8/17/2021 15:06	Temperature	21.11	C
GC-AP-MW-17	8/17/2021 15:06	Turbidity	6.01	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-18	8/17/2021 15:41	Conductivity	642.25	uS/cm
GC-AP-MW-18	8/17/2021 15:41	DO	0.44	mg/L
GC-AP-MW-18	8/17/2021 15:41	Depth to Water Detail	28.47	ft
GC-AP-MW-18	8/17/2021 15:41	Oxidation Reduction Potention	-6.44	mv
GC-AP-MW-18	8/17/2021 15:41	pH	6.47	SU
GC-AP-MW-18	8/17/2021 15:41	Temperature	21.11	C
GC-AP-MW-18	8/17/2021 15:41	Turbidity	3.29	NTU
GC-AP-MW-18	8/17/2021 15:46	Conductivity	642.53	uS/cm
GC-AP-MW-18	8/17/2021 15:46	DO	0.36	mg/L
GC-AP-MW-18	8/17/2021 15:46	Depth to Water Detail	28.47	ft
GC-AP-MW-18	8/17/2021 15:46	Oxidation Reduction Potention	-5.47	mv
GC-AP-MW-18	8/17/2021 15:46	pH	6.4	SU
GC-AP-MW-18	8/17/2021 15:46	Temperature	21.14	C
GC-AP-MW-18	8/17/2021 15:46	Turbidity	2.41	NTU
GC-AP-MW-18	8/17/2021 15:51	Conductivity	644.13	uS/cm
GC-AP-MW-18	8/17/2021 15:51	DO	0.33	mg/L
GC-AP-MW-18	8/17/2021 15:51	Depth to Water Detail	28.47	ft
GC-AP-MW-18	8/17/2021 15:51	Oxidation Reduction Potention	-5.99	mv
GC-AP-MW-18	8/17/2021 15:51	pH	6.37	SU
GC-AP-MW-18	8/17/2021 15:51	Temperature	20.98	C
GC-AP-MW-18	8/17/2021 15:51	Turbidity	2.42	NTU
GC-AP-MW-18	8/17/2021 15:56	Conductivity	648.44	uS/cm
GC-AP-MW-18	8/17/2021 15:56	DO	0.33	mg/L
GC-AP-MW-18	8/17/2021 15:56	Depth to Water Detail	28.47	ft
GC-AP-MW-18	8/17/2021 15:56	Oxidation Reduction Potention	-7.47	mv
GC-AP-MW-18	8/17/2021 15:56	pH	6.38	SU
GC-AP-MW-18	8/17/2021 15:56	Temperature	20.85	C
GC-AP-MW-18	8/17/2021 15:56	Turbidity	1.65	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	8/17/2021 11:27	Conductivity	431.16	uS/cm
GC-AP-PZ-4	8/17/2021 11:27	DO	1.31	mg/L
GC-AP-PZ-4	8/17/2021 11:27	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 11:27	Oxidation Reduction Potention	80.15	mv
GC-AP-PZ-4	8/17/2021 11:27	pH	5.01	SU
GC-AP-PZ-4	8/17/2021 11:27	Temperature	22.8	C
GC-AP-PZ-4	8/17/2021 11:27	Turbidity	1.28	NTU
GC-AP-PZ-4	8/17/2021 11:32	Conductivity	619.15	uS/cm
GC-AP-PZ-4	8/17/2021 11:32	DO	1.02	mg/L
GC-AP-PZ-4	8/17/2021 11:32	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 11:32	Oxidation Reduction Potention	75.54	mv
GC-AP-PZ-4	8/17/2021 11:32	pH	5.12	SU
GC-AP-PZ-4	8/17/2021 11:32	Temperature	22.72	C
GC-AP-PZ-4	8/17/2021 11:32	Turbidity	0.55	NTU
GC-AP-PZ-4	8/17/2021 11:37	Conductivity	726.22	uS/cm
GC-AP-PZ-4	8/17/2021 11:37	DO	0.83	mg/L
GC-AP-PZ-4	8/17/2021 11:37	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 11:37	Oxidation Reduction Potention	69.22	mv
GC-AP-PZ-4	8/17/2021 11:37	pH	5.22	SU
GC-AP-PZ-4	8/17/2021 11:37	Temperature	22.7	C
GC-AP-PZ-4	8/17/2021 11:37	Turbidity	0.92	NTU
GC-AP-PZ-4	8/17/2021 11:42	Conductivity	801.82	uS/cm
GC-AP-PZ-4	8/17/2021 11:42	DO	0.7	mg/L
GC-AP-PZ-4	8/17/2021 11:42	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 11:42	Oxidation Reduction Potention	63.46	mv
GC-AP-PZ-4	8/17/2021 11:42	pH	5.31	SU
GC-AP-PZ-4	8/17/2021 11:42	Temperature	22.79	C
GC-AP-PZ-4	8/17/2021 11:42	Turbidity	1.86	NTU
GC-AP-PZ-4	8/17/2021 11:47	Conductivity	867.5	uS/cm
GC-AP-PZ-4	8/17/2021 11:47	DO	0.6	mg/L
GC-AP-PZ-4	8/17/2021 11:47	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 11:47	Oxidation Reduction Potention	60.44	mv
GC-AP-PZ-4	8/17/2021 11:47	pH	5.37	SU
GC-AP-PZ-4	8/17/2021 11:47	Temperature	22.71	C
GC-AP-PZ-4	8/17/2021 11:47	Turbidity	1.42	NTU
GC-AP-PZ-4	8/17/2021 11:52	Conductivity	906.68	uS/cm
GC-AP-PZ-4	8/17/2021 11:52	DO	0.51	mg/L
GC-AP-PZ-4	8/17/2021 11:52	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 11:52	Oxidation Reduction Potention	56.12	mv
GC-AP-PZ-4	8/17/2021 11:52	pH	5.48	SU
GC-AP-PZ-4	8/17/2021 11:52	Temperature	22.63	C
GC-AP-PZ-4	8/17/2021 11:52	Turbidity	2.32	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	8/17/2021 11:57	Conductivity	942.19	uS/cm
GC-AP-PZ-4	8/17/2021 11:57	DO	0.46	mg/L
GC-AP-PZ-4	8/17/2021 11:57	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 11:57	Oxidation Reduction Potention	53.49	mv
GC-AP-PZ-4	8/17/2021 11:57	pH	5.52	SU
GC-AP-PZ-4	8/17/2021 11:57	Temperature	22.66	C
GC-AP-PZ-4	8/17/2021 11:57	Turbidity	2.32	NTU
GC-AP-PZ-4	8/17/2021 12:02	Conductivity	975.67	uS/cm
GC-AP-PZ-4	8/17/2021 12:02	DO	0.43	mg/L
GC-AP-PZ-4	8/17/2021 12:02	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 12:02	Oxidation Reduction Potention	51.24	mv
GC-AP-PZ-4	8/17/2021 12:02	pH	5.54	SU
GC-AP-PZ-4	8/17/2021 12:02	Temperature	22.71	C
GC-AP-PZ-4	8/17/2021 12:02	Turbidity	1.77	NTU
GC-AP-PZ-4	8/17/2021 12:07	Conductivity	997.77	uS/cm
GC-AP-PZ-4	8/17/2021 12:07	DO	0.4	mg/L
GC-AP-PZ-4	8/17/2021 12:07	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 12:07	Oxidation Reduction Potention	49.56	mv
GC-AP-PZ-4	8/17/2021 12:07	pH	5.59	SU
GC-AP-PZ-4	8/17/2021 12:07	Temperature	22.71	C
GC-AP-PZ-4	8/17/2021 12:07	Turbidity	1.76	NTU
GC-AP-PZ-4	8/17/2021 12:12	Conductivity	1026.54	uS/cm
GC-AP-PZ-4	8/17/2021 12:12	DO	0.39	mg/L
GC-AP-PZ-4	8/17/2021 12:12	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 12:12	Oxidation Reduction Potention	48.03	mv
GC-AP-PZ-4	8/17/2021 12:12	pH	5.6	SU
GC-AP-PZ-4	8/17/2021 12:12	Temperature	22.66	C
GC-AP-PZ-4	8/17/2021 12:12	Turbidity	1.46	NTU
GC-AP-PZ-4	8/17/2021 12:17	Conductivity	1044.53	uS/cm
GC-AP-PZ-4	8/17/2021 12:17	DO	0.37	mg/L
GC-AP-PZ-4	8/17/2021 12:17	Depth to Water Detail	12.21	ft
GC-AP-PZ-4	8/17/2021 12:17	Oxidation Reduction Potention	45.92	mv
GC-AP-PZ-4	8/17/2021 12:17	pH	5.64	SU
GC-AP-PZ-4	8/17/2021 12:17	Temperature	22.67	C
GC-AP-PZ-4	8/17/2021 12:17	Turbidity	1.29	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-2	8/17/2021 9:32	Conductivity	1019.36	uS/cm
GC-AP-MW-2	8/17/2021 9:32	DO	1.26	mg/L
GC-AP-MW-2	8/17/2021 9:32	Depth to Water Detail	14.15	ft
GC-AP-MW-2	8/17/2021 9:32	Oxidation Reduction Potention	27.23	mv
GC-AP-MW-2	8/17/2021 9:32	pH	5.98	SU
GC-AP-MW-2	8/17/2021 9:32	Temperature	23.41	C
GC-AP-MW-2	8/17/2021 9:32	Turbidity	2.71	NTU
GC-AP-MW-2	8/17/2021 9:37	Conductivity	1024.18	uS/cm
GC-AP-MW-2	8/17/2021 9:37	DO	1.1	mg/L
GC-AP-MW-2	8/17/2021 9:37	Depth to Water Detail	14.17	ft
GC-AP-MW-2	8/17/2021 9:37	Oxidation Reduction Potention	25.98	mv
GC-AP-MW-2	8/17/2021 9:37	pH	5.94	SU
GC-AP-MW-2	8/17/2021 9:37	Temperature	23.41	C
GC-AP-MW-2	8/17/2021 9:37	Turbidity	2.66	NTU
GC-AP-MW-2	8/17/2021 9:42	Conductivity	1025.87	uS/cm
GC-AP-MW-2	8/17/2021 9:42	DO	0.93	mg/L
GC-AP-MW-2	8/17/2021 9:42	Depth to Water Detail	14.19	ft
GC-AP-MW-2	8/17/2021 9:42	Oxidation Reduction Potention	22.59	mv
GC-AP-MW-2	8/17/2021 9:42	pH	5.96	SU
GC-AP-MW-2	8/17/2021 9:42	Temperature	23.32	C
GC-AP-MW-2	8/17/2021 9:42	Turbidity	3.9	NTU
GC-AP-MW-2	8/17/2021 9:47	Conductivity	1025.69	uS/cm
GC-AP-MW-2	8/17/2021 9:47	DO	0.9	mg/L
GC-AP-MW-2	8/17/2021 9:47	Depth to Water Detail	14.2	ft
GC-AP-MW-2	8/17/2021 9:47	Oxidation Reduction Potention	20.38	mv
GC-AP-MW-2	8/17/2021 9:47	pH	5.98	SU
GC-AP-MW-2	8/17/2021 9:47	Temperature	23.27	C
GC-AP-MW-2	8/17/2021 9:47	Turbidity	4.15	NTU
GC-AP-MW-2	8/17/2021 9:52	Conductivity	1027.12	uS/cm
GC-AP-MW-2	8/17/2021 9:52	DO	0.88	mg/L
GC-AP-MW-2	8/17/2021 9:52	Depth to Water Detail	14.2	ft
GC-AP-MW-2	8/17/2021 9:52	Oxidation Reduction Potention	18.72	mv
GC-AP-MW-2	8/17/2021 9:52	pH	5.99	SU
GC-AP-MW-2	8/17/2021 9:52	Temperature	23.34	C
GC-AP-MW-2	8/17/2021 9:52	Turbidity	3.04	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	8/18/2021 10:41	Conductivity	687.04	uS/cm
GC-AP-MW-42H	8/18/2021 10:41	DO	0.11	mg/L
GC-AP-MW-42H	8/18/2021 10:41	Depth to Water Detail	6.92	ft
GC-AP-MW-42H	8/18/2021 10:41	Oxidation Reduction Potention	0.47	mv
GC-AP-MW-42H	8/18/2021 10:41	pH	6.2	SU
GC-AP-MW-42H	8/18/2021 10:41	Temperature	21.86	C
GC-AP-MW-42H	8/18/2021 10:41	Turbidity	17.4	NTU
GC-AP-MW-42H	8/18/2021 10:46	Conductivity	672.13	uS/cm
GC-AP-MW-42H	8/18/2021 10:46	DO	0.1	mg/L
GC-AP-MW-42H	8/18/2021 10:46	Depth to Water Detail	6.92	ft
GC-AP-MW-42H	8/18/2021 10:46	Oxidation Reduction Potention	1.38	mv
GC-AP-MW-42H	8/18/2021 10:46	pH	6.14	SU
GC-AP-MW-42H	8/18/2021 10:46	Temperature	22.02	C
GC-AP-MW-42H	8/18/2021 10:46	Turbidity	12	NTU
GC-AP-MW-42H	8/18/2021 10:51	Conductivity	669.03	uS/cm
GC-AP-MW-42H	8/18/2021 10:51	DO	0.13	mg/L
GC-AP-MW-42H	8/18/2021 10:51	Depth to Water Detail	6.92	ft
GC-AP-MW-42H	8/18/2021 10:51	Oxidation Reduction Potention	0.18	mv
GC-AP-MW-42H	8/18/2021 10:51	pH	6.15	SU
GC-AP-MW-42H	8/18/2021 10:51	Temperature	22.1	C
GC-AP-MW-42H	8/18/2021 10:51	Turbidity	11.88	NTU
GC-AP-MW-42H	8/18/2021 10:56	Conductivity	660.45	uS/cm
GC-AP-MW-42H	8/18/2021 10:56	DO	0.14	mg/L
GC-AP-MW-42H	8/18/2021 10:56	Depth to Water Detail	6.92	ft
GC-AP-MW-42H	8/18/2021 10:56	Oxidation Reduction Potention	0.61	mv
GC-AP-MW-42H	8/18/2021 10:56	pH	6.12	SU
GC-AP-MW-42H	8/18/2021 10:56	Temperature	21.97	C
GC-AP-MW-42H	8/18/2021 10:56	Turbidity	8.99	NTU
GC-AP-MW-42H	8/18/2021 11:01	Conductivity	657.66	uS/cm
GC-AP-MW-42H	8/18/2021 11:01	DO	0.09	mg/L
GC-AP-MW-42H	8/18/2021 11:01	Depth to Water Detail	6.92	ft
GC-AP-MW-42H	8/18/2021 11:01	Oxidation Reduction Potention	-1.22	mv
GC-AP-MW-42H	8/18/2021 11:01	pH	6.16	SU
GC-AP-MW-42H	8/18/2021 11:01	Temperature	22.32	C
GC-AP-MW-42H	8/18/2021 11:01	Turbidity	8.22	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-43H	8/18/2021 8:37	Conductivity	1010.12	uS/cm
GC-AP-MW-43H	8/18/2021 8:37	DO	0.44	mg/L
GC-AP-MW-43H	8/18/2021 8:37	Depth to Water Detail	8.54	ft
GC-AP-MW-43H	8/18/2021 8:37	Oxidation Reduction Potention	-53.95	mv
GC-AP-MW-43H	8/18/2021 8:37	pH	6.45	SU
GC-AP-MW-43H	8/18/2021 8:37	Temperature	20.96	C
GC-AP-MW-43H	8/18/2021 8:37	Turbidity	6.64	NTU
GC-AP-MW-43H	8/18/2021 8:42	Conductivity	1000.19	uS/cm
GC-AP-MW-43H	8/18/2021 8:42	DO	0.27	mg/L
GC-AP-MW-43H	8/18/2021 8:42	Depth to Water Detail	8.54	ft
GC-AP-MW-43H	8/18/2021 8:42	Oxidation Reduction Potention	-60.49	mv
GC-AP-MW-43H	8/18/2021 8:42	pH	6.45	SU
GC-AP-MW-43H	8/18/2021 8:42	Temperature	21.03	C
GC-AP-MW-43H	8/18/2021 8:42	Turbidity	4.76	NTU
GC-AP-MW-43H	8/18/2021 8:47	Conductivity	994.07	uS/cm
GC-AP-MW-43H	8/18/2021 8:47	DO	0.26	mg/L
GC-AP-MW-43H	8/18/2021 8:47	Depth to Water Detail	8.54	ft
GC-AP-MW-43H	8/18/2021 8:47	Oxidation Reduction Potention	-62.08	mv
GC-AP-MW-43H	8/18/2021 8:47	pH	6.45	SU
GC-AP-MW-43H	8/18/2021 8:47	Temperature	20.93	C
GC-AP-MW-43H	8/18/2021 8:47	Turbidity	4.88	NTU
GC-AP-MW-43H	8/18/2021 8:52	Conductivity	991.06	uS/cm
GC-AP-MW-43H	8/18/2021 8:52	DO	0.29	mg/L
GC-AP-MW-43H	8/18/2021 8:52	Depth to Water Detail	8.54	ft
GC-AP-MW-43H	8/18/2021 8:52	Oxidation Reduction Potention	-60.06	mv
GC-AP-MW-43H	8/18/2021 8:52	pH	6.46	SU
GC-AP-MW-43H	8/18/2021 8:52	Temperature	20.78	C
GC-AP-MW-43H	8/18/2021 8:52	Turbidity	2.28	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-45H	8/18/2021 13:10	Conductivity	1032.15	uS/cm
GC-AP-MW-45H	8/18/2021 13:10	DO	0.65	mg/L
GC-AP-MW-45H	8/18/2021 13:10	Depth to Water Detail	19.74	ft
GC-AP-MW-45H	8/18/2021 13:10	Oxidation Reduction Potention	15.69	mv
GC-AP-MW-45H	8/18/2021 13:10	pH	6.76	SU
GC-AP-MW-45H	8/18/2021 13:10	Temperature	23.21	C
GC-AP-MW-45H	8/18/2021 13:10	Turbidity	42	NTU
GC-AP-MW-45H	8/18/2021 13:15	Conductivity	1012.67	uS/cm
GC-AP-MW-45H	8/18/2021 13:15	DO	0.57	mg/L
GC-AP-MW-45H	8/18/2021 13:15	Depth to Water Detail	19.74	ft
GC-AP-MW-45H	8/18/2021 13:15	Oxidation Reduction Potention	3.05	mv
GC-AP-MW-45H	8/18/2021 13:15	pH	6.8	SU
GC-AP-MW-45H	8/18/2021 13:15	Temperature	23	C
GC-AP-MW-45H	8/18/2021 13:15	Turbidity	11.7	NTU
GC-AP-MW-45H	8/18/2021 13:20	Conductivity	1006.54	uS/cm
GC-AP-MW-45H	8/18/2021 13:20	DO	0.39	mg/L
GC-AP-MW-45H	8/18/2021 13:20	Depth to Water Detail	19.74	ft
GC-AP-MW-45H	8/18/2021 13:20	Oxidation Reduction Potention	-5.97	mv
GC-AP-MW-45H	8/18/2021 13:20	pH	6.8	SU
GC-AP-MW-45H	8/18/2021 13:20	Temperature	23.55	C
GC-AP-MW-45H	8/18/2021 13:20	Turbidity	10.47	NTU
GC-AP-MW-45H	8/18/2021 13:25	Conductivity	1000.47	uS/cm
GC-AP-MW-45H	8/18/2021 13:25	DO	0.48	mg/L
GC-AP-MW-45H	8/18/2021 13:25	Depth to Water Detail	19.74	ft
GC-AP-MW-45H	8/18/2021 13:25	Oxidation Reduction Potention	-12.65	mv
GC-AP-MW-45H	8/18/2021 13:25	pH	6.81	SU
GC-AP-MW-45H	8/18/2021 13:25	Temperature	23.3	C
GC-AP-MW-45H	8/18/2021 13:25	Turbidity	8.47	NTU
GC-AP-MW-45H	8/18/2021 13:30	Conductivity	999.66	uS/cm
GC-AP-MW-45H	8/18/2021 13:30	DO	0.46	mg/L
GC-AP-MW-45H	8/18/2021 13:30	Depth to Water Detail	19.74	ft
GC-AP-MW-45H	8/18/2021 13:30	Oxidation Reduction Potention	-17.19	mv
GC-AP-MW-45H	8/18/2021 13:30	pH	6.84	SU
GC-AP-MW-45H	8/18/2021 13:30	Temperature	23.38	C
GC-AP-MW-45H	8/18/2021 13:30	Turbidity	7.7	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-48H	8/18/2021 11:52	Conductivity	168.81	uS/cm
GC-AP-MW-48H	8/18/2021 11:52	DO	0.13	mg/L
GC-AP-MW-48H	8/18/2021 11:52	Depth to Water Detail	8.79	ft
GC-AP-MW-48H	8/18/2021 11:52	Oxidation Reduction Potention	94.19	mv
GC-AP-MW-48H	8/18/2021 11:52	pH	5.9	SU
GC-AP-MW-48H	8/18/2021 11:52	Temperature	21.36	C
GC-AP-MW-48H	8/18/2021 11:52	Turbidity	1.67	NTU
GC-AP-MW-48H	8/18/2021 11:57	Conductivity	182.66	uS/cm
GC-AP-MW-48H	8/18/2021 11:57	DO	0.11	mg/L
GC-AP-MW-48H	8/18/2021 11:57	Depth to Water Detail	8.79	ft
GC-AP-MW-48H	8/18/2021 11:57	Oxidation Reduction Potention	103.02	mv
GC-AP-MW-48H	8/18/2021 11:57	pH	5.94	SU
GC-AP-MW-48H	8/18/2021 11:57	Temperature	21.86	C
GC-AP-MW-48H	8/18/2021 11:57	Turbidity	1.18	NTU
GC-AP-MW-48H	8/18/2021 12:02	Conductivity	182.87	uS/cm
GC-AP-MW-48H	8/18/2021 12:02	DO	0.1	mg/L
GC-AP-MW-48H	8/18/2021 12:02	Depth to Water Detail	8.79	ft
GC-AP-MW-48H	8/18/2021 12:02	Oxidation Reduction Potention	106.47	mv
GC-AP-MW-48H	8/18/2021 12:02	pH	5.94	SU
GC-AP-MW-48H	8/18/2021 12:02	Temperature	21.51	C
GC-AP-MW-48H	8/18/2021 12:02	Turbidity	0.98	NTU
GC-AP-MW-48H	8/18/2021 12:07	Conductivity	185.1	uS/cm
GC-AP-MW-48H	8/18/2021 12:07	DO	0.09	mg/L
GC-AP-MW-48H	8/18/2021 12:07	Depth to Water Detail	8.79	ft
GC-AP-MW-48H	8/18/2021 12:07	Oxidation Reduction Potention	107.26	mv
GC-AP-MW-48H	8/18/2021 12:07	pH	5.96	SU
GC-AP-MW-48H	8/18/2021 12:07	Temperature	21.32	C
GC-AP-MW-48H	8/18/2021 12:07	Turbidity	1.11	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-49H	8/18/2021 9:38	Conductivity	210.2	uS/cm
GC-AP-MW-49H	8/18/2021 9:38	DO	0.44	mg/L
GC-AP-MW-49H	8/18/2021 9:38	Depth to Water Detail	9.89	ft
GC-AP-MW-49H	8/18/2021 9:38	Oxidation Reduction Potention	56.22	mv
GC-AP-MW-49H	8/18/2021 9:38	pH	6.03	SU
GC-AP-MW-49H	8/18/2021 9:38	Temperature	23.07	C
GC-AP-MW-49H	8/18/2021 9:38	Turbidity	7.98	NTU
GC-AP-MW-49H	8/18/2021 9:43	Conductivity	207.5	uS/cm
GC-AP-MW-49H	8/18/2021 9:43	DO	0.64	mg/L
GC-AP-MW-49H	8/18/2021 9:43	Depth to Water Detail	9.89	ft
GC-AP-MW-49H	8/18/2021 9:43	Oxidation Reduction Potention	65.27	mv
GC-AP-MW-49H	8/18/2021 9:43	pH	5.99	SU
GC-AP-MW-49H	8/18/2021 9:43	Temperature	23.31	C
GC-AP-MW-49H	8/18/2021 9:43	Turbidity	3.82	NTU
GC-AP-MW-49H	8/18/2021 9:48	Conductivity	209.16	uS/cm
GC-AP-MW-49H	8/18/2021 9:48	DO	0.71	mg/L
GC-AP-MW-49H	8/18/2021 9:48	Depth to Water Detail	9.89	ft
GC-AP-MW-49H	8/18/2021 9:48	Oxidation Reduction Potention	69.89	mv
GC-AP-MW-49H	8/18/2021 9:48	pH	5.96	SU
GC-AP-MW-49H	8/18/2021 9:48	Temperature	23.16	C
GC-AP-MW-49H	8/18/2021 9:48	Turbidity	2.73	NTU
GC-AP-MW-49H	8/18/2021 9:53	Conductivity	211.09	uS/cm
GC-AP-MW-49H	8/18/2021 9:53	DO	0.7	mg/L
GC-AP-MW-49H	8/18/2021 9:53	Depth to Water Detail	9.89	ft
GC-AP-MW-49H	8/18/2021 9:53	Oxidation Reduction Potention	65.51	mv
GC-AP-MW-49H	8/18/2021 9:53	pH	6.05	SU
GC-AP-MW-49H	8/18/2021 9:53	Temperature	23.28	C
GC-AP-MW-49H	8/18/2021 9:53	Turbidity	1.59	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-26	8/18/2021 8:57	Conductivity	58	uS/cm
GC-AP-MW-26	8/18/2021 8:57	DO	2.09	mg/L
GC-AP-MW-26	8/18/2021 8:57	Depth to Water Detail	6.82	ft
GC-AP-MW-26	8/18/2021 8:57	Oxidation Reduction Potention	162.12	mv
GC-AP-MW-26	8/18/2021 8:57	pH	4.85	SU
GC-AP-MW-26	8/18/2021 8:57	Temperature	19.24	C
GC-AP-MW-26	8/18/2021 8:57	Turbidity	1.34	NTU
GC-AP-MW-26	8/18/2021 9:02	Conductivity	57.78	uS/cm
GC-AP-MW-26	8/18/2021 9:02	DO	2.34	mg/L
GC-AP-MW-26	8/18/2021 9:02	Depth to Water Detail	6.82	ft
GC-AP-MW-26	8/18/2021 9:02	Oxidation Reduction Potention	150.75	mv
GC-AP-MW-26	8/18/2021 9:02	pH	4.96	SU
GC-AP-MW-26	8/18/2021 9:02	Temperature	19.19	C
GC-AP-MW-26	8/18/2021 9:02	Turbidity	0.71	NTU
GC-AP-MW-26	8/18/2021 9:07	Conductivity	56.58	uS/cm
GC-AP-MW-26	8/18/2021 9:07	DO	2.34	mg/L
GC-AP-MW-26	8/18/2021 9:07	Depth to Water Detail	6.82	ft
GC-AP-MW-26	8/18/2021 9:07	Oxidation Reduction Potention	140.47	mv
GC-AP-MW-26	8/18/2021 9:07	pH	5.05	SU
GC-AP-MW-26	8/18/2021 9:07	Temperature	19.2	C
GC-AP-MW-26	8/18/2021 9:07	Turbidity	0.84	NTU
GC-AP-MW-26	8/18/2021 9:12	Conductivity	57.99	uS/cm
GC-AP-MW-26	8/18/2021 9:12	DO	2.34	mg/L
GC-AP-MW-26	8/18/2021 9:12	Depth to Water Detail	6.82	ft
GC-AP-MW-26	8/18/2021 9:12	Oxidation Reduction Potention	130.55	mv
GC-AP-MW-26	8/18/2021 9:12	pH	5.18	SU
GC-AP-MW-26	8/18/2021 9:12	Temperature	19.21	C
GC-AP-MW-26	8/18/2021 9:12	Turbidity	0.21	NTU
GC-AP-MW-26	8/18/2021 9:17	Conductivity	57.61	uS/cm
GC-AP-MW-26	8/18/2021 9:17	DO	2.34	mg/L
GC-AP-MW-26	8/18/2021 9:17	Depth to Water Detail	6.82	ft
GC-AP-MW-26	8/18/2021 9:17	Oxidation Reduction Potention	123.68	mv
GC-AP-MW-26	8/18/2021 9:17	pH	5.25	SU
GC-AP-MW-26	8/18/2021 9:17	Temperature	19.21	C
GC-AP-MW-26	8/18/2021 9:17	Turbidity	0.16	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-27	8/18/2021 9:48	Conductivity	33.89	uS/cm
GC-AP-MW-27	8/18/2021 9:48	DO	4.93	mg/L
GC-AP-MW-27	8/18/2021 9:48	Depth to Water Detail	8.54	ft
GC-AP-MW-27	8/18/2021 9:48	Oxidation Reduction Potention	164.56	mv
GC-AP-MW-27	8/18/2021 9:48	pH	4.05	SU
GC-AP-MW-27	8/18/2021 9:48	Temperature	19.72	C
GC-AP-MW-27	8/18/2021 9:48	Turbidity	0.1	NTU
GC-AP-MW-27	8/18/2021 9:53	Conductivity	33.78	uS/cm
GC-AP-MW-27	8/18/2021 9:53	DO	5.02	mg/L
GC-AP-MW-27	8/18/2021 9:53	Depth to Water Detail	8.54	ft
GC-AP-MW-27	8/18/2021 9:53	Oxidation Reduction Potention	167.31	mv
GC-AP-MW-27	8/18/2021 9:53	pH	4.05	SU
GC-AP-MW-27	8/18/2021 9:53	Temperature	19.71	C
GC-AP-MW-27	8/18/2021 9:53	Turbidity	0.03	NTU
GC-AP-MW-27	8/18/2021 9:58	Conductivity	33.77	uS/cm
GC-AP-MW-27	8/18/2021 9:58	DO	5.03	mg/L
GC-AP-MW-27	8/18/2021 9:58	Depth to Water Detail	8.54	ft
GC-AP-MW-27	8/18/2021 9:58	Oxidation Reduction Potention	159.13	mv
GC-AP-MW-27	8/18/2021 9:58	pH	4.2	SU
GC-AP-MW-27	8/18/2021 9:58	Temperature	19.72	C
GC-AP-MW-27	8/18/2021 9:58	Turbidity	0	NTU
GC-AP-MW-27	8/18/2021 10:03	Conductivity	34.17	uS/cm
GC-AP-MW-27	8/18/2021 10:03	DO	5.06	mg/L
GC-AP-MW-27	8/18/2021 10:03	Depth to Water Detail	8.54	ft
GC-AP-MW-27	8/18/2021 10:03	Oxidation Reduction Potention	151.36	mv
GC-AP-MW-27	8/18/2021 10:03	pH	4.33	SU
GC-AP-MW-27	8/18/2021 10:03	Temperature	19.72	C
GC-AP-MW-27	8/18/2021 10:03	Turbidity	0.15	NTU
GC-AP-MW-27	8/18/2021 10:08	Conductivity	34.24	uS/cm
GC-AP-MW-27	8/18/2021 10:08	DO	5.02	mg/L
GC-AP-MW-27	8/18/2021 10:08	Depth to Water Detail	8.54	ft
GC-AP-MW-27	8/18/2021 10:08	Oxidation Reduction Potention	143.16	mv
GC-AP-MW-27	8/18/2021 10:08	pH	4.46	SU
GC-AP-MW-27	8/18/2021 10:08	Temperature	19.7	C
GC-AP-MW-27	8/18/2021 10:08	Turbidity	0.1	NTU
GC-AP-MW-27	8/18/2021 10:13	Conductivity	34.22	uS/cm
GC-AP-MW-27	8/18/2021 10:13	DO	5.02	mg/L
GC-AP-MW-27	8/18/2021 10:13	Depth to Water Detail	8.54	ft
GC-AP-MW-27	8/18/2021 10:13	Oxidation Reduction Potention	141.07	mv
GC-AP-MW-27	8/18/2021 10:13	pH	4.52	SU
GC-AP-MW-27	8/18/2021 10:13	Temperature	19.76	C
GC-AP-MW-27	8/18/2021 10:13	Turbidity	0.13	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-28	8/18/2021 10:48	Conductivity	51.64	uS/cm
GC-AP-MW-28	8/18/2021 10:48	DO	8.22	mg/L
GC-AP-MW-28	8/18/2021 10:48	Depth to Water Detail	8.8	ft
GC-AP-MW-28	8/18/2021 10:48	Oxidation Reduction Potention	186.45	mv
GC-AP-MW-28	8/18/2021 10:48	pH	3.6	SU
GC-AP-MW-28	8/18/2021 10:48	Temperature	19.2	C
GC-AP-MW-28	8/18/2021 10:48	Turbidity	1.33	NTU
GC-AP-MW-28	8/18/2021 10:53	Conductivity	51.56	uS/cm
GC-AP-MW-28	8/18/2021 10:53	DO	8.16	mg/L
GC-AP-MW-28	8/18/2021 10:53	Depth to Water Detail	8.8	ft
GC-AP-MW-28	8/18/2021 10:53	Oxidation Reduction Potention	194.04	mv
GC-AP-MW-28	8/18/2021 10:53	pH	3.59	SU
GC-AP-MW-28	8/18/2021 10:53	Temperature	19.21	C
GC-AP-MW-28	8/18/2021 10:53	Turbidity	0.53	NTU
GC-AP-MW-28	8/18/2021 10:58	Conductivity	50.6	uS/cm
GC-AP-MW-28	8/18/2021 10:58	DO	8.08	mg/L
GC-AP-MW-28	8/18/2021 10:58	Depth to Water Detail	8.8	ft
GC-AP-MW-28	8/18/2021 10:58	Oxidation Reduction Potention	195.13	mv
GC-AP-MW-28	8/18/2021 10:58	pH	3.68	SU
GC-AP-MW-28	8/18/2021 10:58	Temperature	19.05	C
GC-AP-MW-28	8/18/2021 10:58	Turbidity	0.82	NTU
GC-AP-MW-28	8/18/2021 11:03	Conductivity	50.42	uS/cm
GC-AP-MW-28	8/18/2021 11:03	DO	7.98	mg/L
GC-AP-MW-28	8/18/2021 11:03	Depth to Water Detail	8.8	ft
GC-AP-MW-28	8/18/2021 11:03	Oxidation Reduction Potention	193.66	mv
GC-AP-MW-28	8/18/2021 11:03	pH	3.78	SU
GC-AP-MW-28	8/18/2021 11:03	Temperature	19.09	C
GC-AP-MW-28	8/18/2021 11:03	Turbidity	0.18	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-29	8/18/2021 11:45	Conductivity	21.09	uS/cm
GC-AP-MW-29	8/18/2021 11:45	DO	8.67	mg/L
GC-AP-MW-29	8/18/2021 11:45	Depth to Water Detail	7.19	ft
GC-AP-MW-29	8/18/2021 11:45	Oxidation Reduction Potention	194.17	mv
GC-AP-MW-29	8/18/2021 11:45	pH	3.87	SU
GC-AP-MW-29	8/18/2021 11:45	Temperature	18.8	C
GC-AP-MW-29	8/18/2021 11:45	Turbidity	8.65	NTU
GC-AP-MW-29	8/18/2021 11:50	Conductivity	20.94	uS/cm
GC-AP-MW-29	8/18/2021 11:50	DO	8.77	mg/L
GC-AP-MW-29	8/18/2021 11:50	Depth to Water Detail	7.19	ft
GC-AP-MW-29	8/18/2021 11:50	Oxidation Reduction Potention	198.77	mv
GC-AP-MW-29	8/18/2021 11:50	pH	3.77	SU
GC-AP-MW-29	8/18/2021 11:50	Temperature	18.76	C
GC-AP-MW-29	8/18/2021 11:50	Turbidity	5.86	NTU
GC-AP-MW-29	8/18/2021 11:55	Conductivity	20.98	uS/cm
GC-AP-MW-29	8/18/2021 11:55	DO	8.78	mg/L
GC-AP-MW-29	8/18/2021 11:55	Depth to Water Detail	7.19	ft
GC-AP-MW-29	8/18/2021 11:55	Oxidation Reduction Potention	194.11	mv
GC-AP-MW-29	8/18/2021 11:55	pH	3.84	SU
GC-AP-MW-29	8/18/2021 11:55	Temperature	18.73	C
GC-AP-MW-29	8/18/2021 11:55	Turbidity	2.88	NTU
GC-AP-MW-29	8/18/2021 12:00	Conductivity	20.69	uS/cm
GC-AP-MW-29	8/18/2021 12:00	DO	8.81	mg/L
GC-AP-MW-29	8/18/2021 12:00	Depth to Water Detail	7.19	ft
GC-AP-MW-29	8/18/2021 12:00	Oxidation Reduction Potention	187.78	mv
GC-AP-MW-29	8/18/2021 12:00	pH	3.94	SU
GC-AP-MW-29	8/18/2021 12:00	Temperature	18.7	C
GC-AP-MW-29	8/18/2021 12:00	Turbidity	1.21	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-30	8/18/2021 12:41	Conductivity	33.69	uS/cm
GC-AP-MW-30	8/18/2021 12:41	DO	3.52	mg/L
GC-AP-MW-30	8/18/2021 12:41	Depth to Water Detail	8.26	ft
GC-AP-MW-30	8/18/2021 12:41	Oxidation Reduction Potention	193.92	mv
GC-AP-MW-30	8/18/2021 12:41	pH	4.01	SU
GC-AP-MW-30	8/18/2021 12:41	Temperature	19.07	C
GC-AP-MW-30	8/18/2021 12:41	Turbidity	11.06	NTU
GC-AP-MW-30	8/18/2021 12:46	Conductivity	33.79	uS/cm
GC-AP-MW-30	8/18/2021 12:46	DO	3.5	mg/L
GC-AP-MW-30	8/18/2021 12:46	Depth to Water Detail	8.26	ft
GC-AP-MW-30	8/18/2021 12:46	Oxidation Reduction Potention	201.52	mv
GC-AP-MW-30	8/18/2021 12:46	pH	3.92	SU
GC-AP-MW-30	8/18/2021 12:46	Temperature	19	C
GC-AP-MW-30	8/18/2021 12:46	Turbidity	2.53	NTU
GC-AP-MW-30	8/18/2021 12:51	Conductivity	33.77	uS/cm
GC-AP-MW-30	8/18/2021 12:51	DO	3.52	mg/L
GC-AP-MW-30	8/18/2021 12:51	Depth to Water Detail	8.26	ft
GC-AP-MW-30	8/18/2021 12:51	Oxidation Reduction Potention	200.68	mv
GC-AP-MW-30	8/18/2021 12:51	pH	3.96	SU
GC-AP-MW-30	8/18/2021 12:51	Temperature	18.82	C
GC-AP-MW-30	8/18/2021 12:51	Turbidity	0.79	NTU
GC-AP-MW-30	8/18/2021 12:56	Conductivity	33.81	uS/cm
GC-AP-MW-30	8/18/2021 12:56	DO	3.53	mg/L
GC-AP-MW-30	8/18/2021 12:56	Depth to Water Detail	8.26	ft
GC-AP-MW-30	8/18/2021 12:56	Oxidation Reduction Potention	199.6	mv
GC-AP-MW-30	8/18/2021 12:56	pH	4.01	SU
GC-AP-MW-30	8/18/2021 12:56	Temperature	18.91	C
GC-AP-MW-30	8/18/2021 12:56	Turbidity	0.28	NTU
GC-AP-MW-44H	8/23/2021 11:54	Conductivity	916.31	uS/cm
GC-AP-MW-44H	8/23/2021 11:54	DO	0.24	mg/L
GC-AP-MW-44H	8/23/2021 11:54	Depth to Water Detail	9.59	ft
GC-AP-MW-44H	8/23/2021 11:54	Oxidation Reduction Potention	25.09	mv
GC-AP-MW-44H	8/23/2021 11:54	pH	6.16	SU
GC-AP-MW-44H	8/23/2021 11:54	Temperature	20.21	C
GC-AP-MW-44H	8/23/2021 11:54	Turbidity	9	NTU
GC-AP-MW-44H	8/23/2021 11:59	Conductivity	919.6	uS/cm
GC-AP-MW-44H	8/23/2021 11:59	DO	0.24	mg/L
GC-AP-MW-44H	8/23/2021 11:59	Depth to Water Detail	9.76	ft
GC-AP-MW-44H	8/23/2021 11:59	Oxidation Reduction Potention	26.39	mv
GC-AP-MW-44H	8/23/2021 11:59	pH	6.12	SU
GC-AP-MW-44H	8/23/2021 11:59	Temperature	19.81	C
GC-AP-MW-44H	8/23/2021 11:59	Turbidity	9.24	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-44H	8/23/2021 12:04	Conductivity	920.63	uS/cm
GC-AP-MW-44H	8/23/2021 12:04	DO	2.83	mg/L
GC-AP-MW-44H	8/23/2021 12:04	Depth to Water Detail	9.76	ft
GC-AP-MW-44H	8/23/2021 12:04	Oxidation Reduction Potention	29.43	mv
GC-AP-MW-44H	8/23/2021 12:04	pH	6.19	SU
GC-AP-MW-44H	8/23/2021 12:04	Temperature	20.12	C
GC-AP-MW-44H	8/23/2021 12:04	Turbidity	7.66	NTU
GC-AP-MW-44H	8/23/2021 12:09	Conductivity	811.47	uS/cm
GC-AP-MW-44H	8/23/2021 12:09	DO	3.19	mg/L
GC-AP-MW-44H	8/23/2021 12:09	Depth to Water Detail	9.76	ft
GC-AP-MW-44H	8/23/2021 12:09	Oxidation Reduction Potention	47.32	mv
GC-AP-MW-44H	8/23/2021 12:09	pH	6.68	SU
GC-AP-MW-44H	8/23/2021 12:09	Temperature	21.66	C
GC-AP-MW-44H	8/23/2021 12:09	Turbidity	6.33	NTU
GC-AP-MW-44H	8/23/2021 12:14	Conductivity	918.04	uS/cm
GC-AP-MW-44H	8/23/2021 12:14	DO	0.3	mg/L
GC-AP-MW-44H	8/23/2021 12:14	Depth to Water Detail	9.76	ft
GC-AP-MW-44H	8/23/2021 12:14	Oxidation Reduction Potention	33.61	mv
GC-AP-MW-44H	8/23/2021 12:14	pH	6.09	SU
GC-AP-MW-44H	8/23/2021 12:14	Temperature	19.94	C
GC-AP-MW-44H	8/23/2021 12:14	Turbidity	5.93	NTU
GC-AP-MW-44H	8/23/2021 12:19	Conductivity	916.38	uS/cm
GC-AP-MW-44H	8/23/2021 12:19	DO	0.26	mg/L
GC-AP-MW-44H	8/23/2021 12:19	Depth to Water Detail	9.76	ft
GC-AP-MW-44H	8/23/2021 12:19	Oxidation Reduction Potention	34.02	mv
GC-AP-MW-44H	8/23/2021 12:19	pH	6.08	SU
GC-AP-MW-44H	8/23/2021 12:19	Temperature	19.88	C
GC-AP-MW-44H	8/23/2021 12:19	Turbidity	4.05	NTU
GC-AP-MW-44H	8/23/2021 12:24	Conductivity	913.04	uS/cm
GC-AP-MW-44H	8/23/2021 12:24	DO	0.24	mg/L
GC-AP-MW-44H	8/23/2021 12:24	Depth to Water Detail	9.76	ft
GC-AP-MW-44H	8/23/2021 12:24	Oxidation Reduction Potention	33.63	mv
GC-AP-MW-44H	8/23/2021 12:24	pH	6.07	SU
GC-AP-MW-44H	8/23/2021 12:24	Temperature	19.88	C
GC-AP-MW-44H	8/23/2021 12:24	Turbidity	3.63	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-57H	8/23/2021 13:05	Conductivity	433.53	uS/cm
GC-AP-MW-57H	8/23/2021 13:05	DO	0.28	mg/L
GC-AP-MW-57H	8/23/2021 13:05	Depth to Water Detail	7.99	ft
GC-AP-MW-57H	8/23/2021 13:05	Oxidation Reduction Potention	15.74	mv
GC-AP-MW-57H	8/23/2021 13:05	pH	6.15	SU
GC-AP-MW-57H	8/23/2021 13:05	Temperature	20.84	C
GC-AP-MW-57H	8/23/2021 13:05	Turbidity	3.25	NTU
GC-AP-MW-57H	8/23/2021 13:10	Conductivity	460.15	uS/cm
GC-AP-MW-57H	8/23/2021 13:10	DO	0.24	mg/L
GC-AP-MW-57H	8/23/2021 13:10	Depth to Water Detail	7.99	ft
GC-AP-MW-57H	8/23/2021 13:10	Oxidation Reduction Potention	-1.58	mv
GC-AP-MW-57H	8/23/2021 13:10	pH	6.27	SU
GC-AP-MW-57H	8/23/2021 13:10	Temperature	20.88	C
GC-AP-MW-57H	8/23/2021 13:10	Turbidity	1.55	NTU
GC-AP-MW-57H	8/23/2021 13:15	Conductivity	470.63	uS/cm
GC-AP-MW-57H	8/23/2021 13:15	DO	0.24	mg/L
GC-AP-MW-57H	8/23/2021 13:15	Depth to Water Detail	7.99	ft
GC-AP-MW-57H	8/23/2021 13:15	Oxidation Reduction Potention	-10.85	mv
GC-AP-MW-57H	8/23/2021 13:15	pH	6.29	SU
GC-AP-MW-57H	8/23/2021 13:15	Temperature	20.84	C
GC-AP-MW-57H	8/23/2021 13:15	Turbidity	1.49	NTU
GC-AP-MW-57H	8/23/2021 13:20	Conductivity	481.16	uS/cm
GC-AP-MW-57H	8/23/2021 13:20	DO	0.23	mg/L
GC-AP-MW-57H	8/23/2021 13:20	Depth to Water Detail	7.99	ft
GC-AP-MW-57H	8/23/2021 13:20	Oxidation Reduction Potention	-15.71	mv
GC-AP-MW-57H	8/23/2021 13:20	pH	6.34	SU
GC-AP-MW-57H	8/23/2021 13:20	Temperature	20.84	C
GC-AP-MW-57H	8/23/2021 13:20	Turbidity	1.18	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-54H	8/23/2021 14:12	Conductivity	648.42	uS/cm
GC-AP-MW-54H	8/23/2021 14:12	DO	0.19	mg/L
GC-AP-MW-54H	8/23/2021 14:12	Depth to Water Detail	10.72	ft
GC-AP-MW-54H	8/23/2021 14:12	Oxidation Reduction Potention	-74.68	mv
GC-AP-MW-54H	8/23/2021 14:12	pH	6.68	SU
GC-AP-MW-54H	8/23/2021 14:12	Temperature	21.29	C
GC-AP-MW-54H	8/23/2021 14:12	Turbidity	10.9	NTU
GC-AP-MW-54H	8/23/2021 14:17	Conductivity	651.77	uS/cm
GC-AP-MW-54H	8/23/2021 14:17	DO	0.18	mg/L
GC-AP-MW-54H	8/23/2021 14:17	Depth to Water Detail	10.72	ft
GC-AP-MW-54H	8/23/2021 14:17	Oxidation Reduction Potention	-78.43	mv
GC-AP-MW-54H	8/23/2021 14:17	pH	6.67	SU
GC-AP-MW-54H	8/23/2021 14:17	Temperature	21.32	C
GC-AP-MW-54H	8/23/2021 14:17	Turbidity	7.28	NTU
GC-AP-MW-54H	8/23/2021 14:22	Conductivity	652.6	uS/cm
GC-AP-MW-54H	8/23/2021 14:22	DO	0.18	mg/L
GC-AP-MW-54H	8/23/2021 14:22	Depth to Water Detail	10.72	ft
GC-AP-MW-54H	8/23/2021 14:22	Oxidation Reduction Potention	-81.85	mv
GC-AP-MW-54H	8/23/2021 14:22	pH	6.67	SU
GC-AP-MW-54H	8/23/2021 14:22	Temperature	21.43	C
GC-AP-MW-54H	8/23/2021 14:22	Turbidity	7.99	NTU
GC-AP-MW-54H	8/23/2021 14:27	Conductivity	652.75	uS/cm
GC-AP-MW-54H	8/23/2021 14:27	DO	0.17	mg/L
GC-AP-MW-54H	8/23/2021 14:27	Depth to Water Detail	10.72	ft
GC-AP-MW-54H	8/23/2021 14:27	Oxidation Reduction Potention	-84.95	mv
GC-AP-MW-54H	8/23/2021 14:27	pH	6.67	SU
GC-AP-MW-54H	8/23/2021 14:27	Temperature	21.4	C
GC-AP-MW-54H	8/23/2021 14:27	Turbidity	4.21	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-53H	8/23/2021 15:12	Conductivity	734.26	uS/cm
GC-AP-MW-53H	8/23/2021 15:12	DO	0.26	mg/L
GC-AP-MW-53H	8/23/2021 15:12	Depth to Water Detail	11.27	ft
GC-AP-MW-53H	8/23/2021 15:12	Oxidation Reduction Potention	-58.08	mv
GC-AP-MW-53H	8/23/2021 15:12	pH	6.32	SU
GC-AP-MW-53H	8/23/2021 15:12	Temperature	22.28	C
GC-AP-MW-53H	8/23/2021 15:12	Turbidity	5.11	NTU
GC-AP-MW-53H	8/23/2021 15:17	Conductivity	732.35	uS/cm
GC-AP-MW-53H	8/23/2021 15:17	DO	0.23	mg/L
GC-AP-MW-53H	8/23/2021 15:17	Depth to Water Detail	11.27	ft
GC-AP-MW-53H	8/23/2021 15:17	Oxidation Reduction Potention	-62.8	mv
GC-AP-MW-53H	8/23/2021 15:17	pH	6.33	SU
GC-AP-MW-53H	8/23/2021 15:17	Temperature	22.3	C
GC-AP-MW-53H	8/23/2021 15:17	Turbidity	3.82	NTU
GC-AP-MW-53H	8/23/2021 15:22	Conductivity	733.33	uS/cm
GC-AP-MW-53H	8/23/2021 15:22	DO	0.22	mg/L
GC-AP-MW-53H	8/23/2021 15:22	Depth to Water Detail	11.27	ft
GC-AP-MW-53H	8/23/2021 15:22	Oxidation Reduction Potention	-65.44	mv
GC-AP-MW-53H	8/23/2021 15:22	pH	6.33	SU
GC-AP-MW-53H	8/23/2021 15:22	Temperature	22.31	C
GC-AP-MW-53H	8/23/2021 15:22	Turbidity	2.25	NTU
GC-AP-MW-53H	8/23/2021 15:27	Conductivity	734.45	uS/cm
GC-AP-MW-53H	8/23/2021 15:27	DO	0.22	mg/L
GC-AP-MW-53H	8/23/2021 15:27	Depth to Water Detail	11.27	ft
GC-AP-MW-53H	8/23/2021 15:27	Oxidation Reduction Potention	-67.34	mv
GC-AP-MW-53H	8/23/2021 15:27	pH	6.33	SU
GC-AP-MW-53H	8/23/2021 15:27	Temperature	22.32	C
GC-AP-MW-53H	8/23/2021 15:27	Turbidity	2.93	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-35H	8/24/2021 8:35	Conductivity	142.71	uS/cm
GC-AP-MW-35H	8/24/2021 8:35	DO	7.82	mg/L
GC-AP-MW-35H	8/24/2021 8:35	Depth to Water Detail	22.03	ft
GC-AP-MW-35H	8/24/2021 8:35	Oxidation Reduction Potention	118.56	mv
GC-AP-MW-35H	8/24/2021 8:35	pH	6.05	SU
GC-AP-MW-35H	8/24/2021 8:35	Temperature	20.78	C
GC-AP-MW-35H	8/24/2021 8:35	Turbidity	0.19	NTU
GC-AP-MW-35H	8/24/2021 8:40	Conductivity	142.88	uS/cm
GC-AP-MW-35H	8/24/2021 8:40	DO	7.76	mg/L
GC-AP-MW-35H	8/24/2021 8:40	Depth to Water Detail	22.03	ft
GC-AP-MW-35H	8/24/2021 8:40	Oxidation Reduction Potention	115.88	mv
GC-AP-MW-35H	8/24/2021 8:40	pH	6.06	SU
GC-AP-MW-35H	8/24/2021 8:40	Temperature	20.77	C
GC-AP-MW-35H	8/24/2021 8:40	Turbidity	0.16	NTU
GC-AP-MW-35H	8/24/2021 8:45	Conductivity	142.83	uS/cm
GC-AP-MW-35H	8/24/2021 8:45	DO	7.75	mg/L
GC-AP-MW-35H	8/24/2021 8:45	Depth to Water Detail	22.03	ft
GC-AP-MW-35H	8/24/2021 8:45	Oxidation Reduction Potention	111.58	mv
GC-AP-MW-35H	8/24/2021 8:45	pH	6.08	SU
GC-AP-MW-35H	8/24/2021 8:45	Temperature	20.78	C
GC-AP-MW-35H	8/24/2021 8:45	Turbidity	0	NTU
GC-AP-MW-35H	8/24/2021 8:50	Conductivity	142.42	uS/cm
GC-AP-MW-35H	8/24/2021 8:50	DO	7.75	mg/L
GC-AP-MW-35H	8/24/2021 8:50	Depth to Water Detail	22.03	ft
GC-AP-MW-35H	8/24/2021 8:50	Oxidation Reduction Potention	109.61	mv
GC-AP-MW-35H	8/24/2021 8:50	pH	6.08	SU
GC-AP-MW-35H	8/24/2021 8:50	Temperature	20.79	C
GC-AP-MW-35H	8/24/2021 8:50	Turbidity	0	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-24	8/24/2021 9:28	Conductivity	216.26	uS/cm
GC-AP-MW-24	8/24/2021 9:28	DO	4.77	mg/L
GC-AP-MW-24	8/24/2021 9:28	Depth to Water Detail	18.05	ft
GC-AP-MW-24	8/24/2021 9:28	Oxidation Reduction Potention	139.76	mv
GC-AP-MW-24	8/24/2021 9:28	pH	4.93	SU
GC-AP-MW-24	8/24/2021 9:28	Temperature	20.92	C
GC-AP-MW-24	8/24/2021 9:28	Turbidity	0.45	NTU
GC-AP-MW-24	8/24/2021 9:33	Conductivity	225.28	uS/cm
GC-AP-MW-24	8/24/2021 9:33	DO	4.67	mg/L
GC-AP-MW-24	8/24/2021 9:33	Depth to Water Detail	18.05	ft
GC-AP-MW-24	8/24/2021 9:33	Oxidation Reduction Potention	135.1	mv
GC-AP-MW-24	8/24/2021 9:33	pH	5.03	SU
GC-AP-MW-24	8/24/2021 9:33	Temperature	20.94	C
GC-AP-MW-24	8/24/2021 9:33	Turbidity	0.37	NTU
GC-AP-MW-24	8/24/2021 9:38	Conductivity	232.64	uS/cm
GC-AP-MW-24	8/24/2021 9:38	DO	4.62	mg/L
GC-AP-MW-24	8/24/2021 9:38	Depth to Water Detail	18.05	ft
GC-AP-MW-24	8/24/2021 9:38	Oxidation Reduction Potention	130.22	mv
GC-AP-MW-24	8/24/2021 9:38	pH	5.12	SU
GC-AP-MW-24	8/24/2021 9:38	Temperature	20.94	C
GC-AP-MW-24	8/24/2021 9:38	Turbidity	0.23	NTU
GC-AP-MW-24	8/24/2021 9:43	Conductivity	235.5	uS/cm
GC-AP-MW-24	8/24/2021 9:43	DO	4.6	mg/L
GC-AP-MW-24	8/24/2021 9:43	Depth to Water Detail	18.05	ft
GC-AP-MW-24	8/24/2021 9:43	Oxidation Reduction Potention	127.33	mv
GC-AP-MW-24	8/24/2021 9:43	pH	5.16	SU
GC-AP-MW-24	8/24/2021 9:43	Temperature	20.97	C
GC-AP-MW-24	8/24/2021 9:43	Turbidity	0.06	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-23	8/24/2021 10:32	Conductivity	159.74	uS/cm
GC-AP-MW-23	8/24/2021 10:32	DO	5.53	mg/L
GC-AP-MW-23	8/24/2021 10:32	Depth to Water Detail	14.79	ft
GC-AP-MW-23	8/24/2021 10:32	Oxidation Reduction Potention	99.74	mv
GC-AP-MW-23	8/24/2021 10:32	pH	6.08	SU
GC-AP-MW-23	8/24/2021 10:32	Temperature	22.09	C
GC-AP-MW-23	8/24/2021 10:32	Turbidity	2.01	NTU
GC-AP-MW-23	8/24/2021 10:37	Conductivity	154.91	uS/cm
GC-AP-MW-23	8/24/2021 10:37	DO	5.75	mg/L
GC-AP-MW-23	8/24/2021 10:37	Depth to Water Detail	14.79	ft
GC-AP-MW-23	8/24/2021 10:37	Oxidation Reduction Potention	95	mv
GC-AP-MW-23	8/24/2021 10:37	pH	6.11	SU
GC-AP-MW-23	8/24/2021 10:37	Temperature	22.05	C
GC-AP-MW-23	8/24/2021 10:37	Turbidity	1.85	NTU
GC-AP-MW-23	8/24/2021 10:42	Conductivity	152.2	uS/cm
GC-AP-MW-23	8/24/2021 10:42	DO	5.84	mg/L
GC-AP-MW-23	8/24/2021 10:42	Depth to Water Detail	14.79	ft
GC-AP-MW-23	8/24/2021 10:42	Oxidation Reduction Potention	94.16	mv
GC-AP-MW-23	8/24/2021 10:42	pH	6.1	SU
GC-AP-MW-23	8/24/2021 10:42	Temperature	22.08	C
GC-AP-MW-23	8/24/2021 10:42	Turbidity	0.89	NTU
GC-AP-MW-23	8/24/2021 10:47	Conductivity	150.86	uS/cm
GC-AP-MW-23	8/24/2021 10:47	DO	5.86	mg/L
GC-AP-MW-23	8/24/2021 10:47	Depth to Water Detail	14.79	ft
GC-AP-MW-23	8/24/2021 10:47	Oxidation Reduction Potention	92.53	mv
GC-AP-MW-23	8/24/2021 10:47	pH	6.09	SU
GC-AP-MW-23	8/24/2021 10:47	Temperature	22.1	C
GC-AP-MW-23	8/24/2021 10:47	Turbidity	0.69	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-36H	8/24/2021 11:46	Conductivity	260.74	uS/cm
GC-AP-MW-36H	8/24/2021 11:46	DO	0.59	mg/L
GC-AP-MW-36H	8/24/2021 11:46	Depth to Water Detail	26.11	ft
GC-AP-MW-36H	8/24/2021 11:46	Oxidation Reduction Potention	120.47	mv
GC-AP-MW-36H	8/24/2021 11:46	pH	6.71	SU
GC-AP-MW-36H	8/24/2021 11:46	Temperature	22.74	C
GC-AP-MW-36H	8/24/2021 11:46	Turbidity	12	NTU
GC-AP-MW-36H	8/24/2021 11:51	Conductivity	261.48	uS/cm
GC-AP-MW-36H	8/24/2021 11:51	DO	0.51	mg/L
GC-AP-MW-36H	8/24/2021 11:51	Depth to Water Detail	26.11	ft
GC-AP-MW-36H	8/24/2021 11:51	Oxidation Reduction Potention	113.84	mv
GC-AP-MW-36H	8/24/2021 11:51	pH	6.83	SU
GC-AP-MW-36H	8/24/2021 11:51	Temperature	22.76	C
GC-AP-MW-36H	8/24/2021 11:51	Turbidity	12.2	NTU
GC-AP-MW-36H	8/24/2021 11:56	Conductivity	261.45	uS/cm
GC-AP-MW-36H	8/24/2021 11:56	DO	0.49	mg/L
GC-AP-MW-36H	8/24/2021 11:56	Depth to Water Detail	26.11	ft
GC-AP-MW-36H	8/24/2021 11:56	Oxidation Reduction Potention	107.64	mv
GC-AP-MW-36H	8/24/2021 11:56	pH	6.88	SU
GC-AP-MW-36H	8/24/2021 11:56	Temperature	22.83	C
GC-AP-MW-36H	8/24/2021 11:56	Turbidity	11.2	NTU
GC-AP-MW-36H	8/24/2021 12:01	Conductivity	261.68	uS/cm
GC-AP-MW-36H	8/24/2021 12:01	DO	0.47	mg/L
GC-AP-MW-36H	8/24/2021 12:01	Depth to Water Detail	26.11	ft
GC-AP-MW-36H	8/24/2021 12:01	Oxidation Reduction Potention	100.94	mv
GC-AP-MW-36H	8/24/2021 12:01	pH	6.95	SU
GC-AP-MW-36H	8/24/2021 12:01	Temperature	22.78	C
GC-AP-MW-36H	8/24/2021 12:01	Turbidity	10.42	NTU
GC-AP-MW-36H	8/24/2021 12:06	Conductivity	262.17	uS/cm
GC-AP-MW-36H	8/24/2021 12:06	DO	0.45	mg/L
GC-AP-MW-36H	8/24/2021 12:06	Depth to Water Detail	26.11	ft
GC-AP-MW-36H	8/24/2021 12:06	Oxidation Reduction Potention	94.31	mv
GC-AP-MW-36H	8/24/2021 12:06	pH	7	SU
GC-AP-MW-36H	8/24/2021 12:06	Temperature	22.81	C
GC-AP-MW-36H	8/24/2021 12:06	Turbidity	10.48	NTU
GC-AP-MW-36H	8/24/2021 12:11	Conductivity	261.8	uS/cm
GC-AP-MW-36H	8/24/2021 12:11	DO	0.46	mg/L
GC-AP-MW-36H	8/24/2021 12:11	Depth to Water Detail	26.11	ft
GC-AP-MW-36H	8/24/2021 12:11	Oxidation Reduction Potention	88.08	mv
GC-AP-MW-36H	8/24/2021 12:11	pH	7.06	SU
GC-AP-MW-36H	8/24/2021 12:11	Temperature	22.78	C
GC-AP-MW-36H	8/24/2021 12:11	Turbidity	9.16	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-37H	8/24/2021 13:06	Conductivity	966.42	uS/cm
GC-AP-MW-37H	8/24/2021 13:06	DO	0.76	mg/L
GC-AP-MW-37H	8/24/2021 13:06	Depth to Water Detail	25.89	ft
GC-AP-MW-37H	8/24/2021 13:06	Oxidation Reduction Potention	15.36	mv
GC-AP-MW-37H	8/24/2021 13:06	pH	6.12	SU
GC-AP-MW-37H	8/24/2021 13:06	Temperature	24.7	C
GC-AP-MW-37H	8/24/2021 13:06	Turbidity	2.12	NTU
GC-AP-MW-37H	8/24/2021 13:12	Conductivity	963.6	uS/cm
GC-AP-MW-37H	8/24/2021 13:12	DO	0.69	mg/L
GC-AP-MW-37H	8/24/2021 13:12	Depth to Water Detail	26.04	ft
GC-AP-MW-37H	8/24/2021 13:12	Oxidation Reduction Potention	6.69	mv
GC-AP-MW-37H	8/24/2021 13:12	pH	6.12	SU
GC-AP-MW-37H	8/24/2021 13:12	Temperature	24.79	C
GC-AP-MW-37H	8/24/2021 13:12	Turbidity	1.24	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-38H	8/24/2021 14:27	Conductivity	519.47	uS/cm
GC-AP-MW-38H	8/24/2021 14:27	DO	2.58	mg/L
GC-AP-MW-38H	8/24/2021 14:27	Depth to Water Detail	20.71	ft
GC-AP-MW-38H	8/24/2021 14:27	Oxidation Reduction Potention	35.65	mv
GC-AP-MW-38H	8/24/2021 14:27	pH	5.83	SU
GC-AP-MW-38H	8/24/2021 14:27	Temperature	22.73	C
GC-AP-MW-38H	8/24/2021 14:27	Turbidity	2.87	NTU
GC-AP-MW-38H	8/24/2021 14:32	Conductivity	523.52	uS/cm
GC-AP-MW-38H	8/24/2021 14:32	DO	2.51	mg/L
GC-AP-MW-38H	8/24/2021 14:32	Depth to Water Detail	20.76	ft
GC-AP-MW-38H	8/24/2021 14:32	Oxidation Reduction Potention	39.87	mv
GC-AP-MW-38H	8/24/2021 14:32	pH	5.79	SU
GC-AP-MW-38H	8/24/2021 14:32	Temperature	22.8	C
GC-AP-MW-38H	8/24/2021 14:32	Turbidity	1.49	NTU
GC-AP-MW-38H	8/24/2021 14:37	Conductivity	513.06	uS/cm
GC-AP-MW-38H	8/24/2021 14:37	DO	2.57	mg/L
GC-AP-MW-38H	8/24/2021 14:37	Depth to Water Detail	20.8	ft
GC-AP-MW-38H	8/24/2021 14:37	Oxidation Reduction Potention	40.71	mv
GC-AP-MW-38H	8/24/2021 14:37	pH	5.82	SU
GC-AP-MW-38H	8/24/2021 14:37	Temperature	22.8	C
GC-AP-MW-38H	8/24/2021 14:37	Turbidity	1.15	NTU
GC-AP-MW-38H	8/24/2021 14:42	Conductivity	510.69	uS/cm
GC-AP-MW-38H	8/24/2021 14:42	DO	2.62	mg/L
GC-AP-MW-38H	8/24/2021 14:42	Depth to Water Detail	20.82	ft
GC-AP-MW-38H	8/24/2021 14:42	Oxidation Reduction Potention	41.07	mv
GC-AP-MW-38H	8/24/2021 14:42	pH	5.84	SU
GC-AP-MW-38H	8/24/2021 14:42	Temperature	22.55	C
GC-AP-MW-38H	8/24/2021 14:42	Turbidity	1.2	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-39H	8/24/2021 15:31	Conductivity	814.59	uS/cm
GC-AP-MW-39H	8/24/2021 15:31	DO	0.3	mg/L
GC-AP-MW-39H	8/24/2021 15:31	Depth to Water Detail	34.07	ft
GC-AP-MW-39H	8/24/2021 15:31	Oxidation Reduction Potention	7.85	mv
GC-AP-MW-39H	8/24/2021 15:31	pH	6.08	SU
GC-AP-MW-39H	8/24/2021 15:31	Temperature	20.35	C
GC-AP-MW-39H	8/24/2021 15:31	Turbidity	5.5	NTU
GC-AP-MW-39H	8/24/2021 15:36	Conductivity	816.35	uS/cm
GC-AP-MW-39H	8/24/2021 15:36	DO	0.28	mg/L
GC-AP-MW-39H	8/24/2021 15:36	Depth to Water Detail	34.07	ft
GC-AP-MW-39H	8/24/2021 15:36	Oxidation Reduction Potention	3.54	mv
GC-AP-MW-39H	8/24/2021 15:36	pH	6.08	SU
GC-AP-MW-39H	8/24/2021 15:36	Temperature	20.4	C
GC-AP-MW-39H	8/24/2021 15:36	Turbidity	3.46	NTU
GC-AP-MW-39H	8/24/2021 15:41	Conductivity	810.96	uS/cm
GC-AP-MW-39H	8/24/2021 15:41	DO	0.27	mg/L
GC-AP-MW-39H	8/24/2021 15:41	Depth to Water Detail	34.07	ft
GC-AP-MW-39H	8/24/2021 15:41	Oxidation Reduction Potention	0.04	mv
GC-AP-MW-39H	8/24/2021 15:41	pH	6.1	SU
GC-AP-MW-39H	8/24/2021 15:41	Temperature	20.36	C
GC-AP-MW-39H	8/24/2021 15:41	Turbidity	2.2	NTU
GC-AP-MW-39H	8/24/2021 15:46	Conductivity	811.4	uS/cm
GC-AP-MW-39H	8/24/2021 15:46	DO	0.27	mg/L
GC-AP-MW-39H	8/24/2021 15:46	Depth to Water Detail	34.07	ft
GC-AP-MW-39H	8/24/2021 15:46	Oxidation Reduction Potention	-3.15	mv
GC-AP-MW-39H	8/24/2021 15:46	pH	6.13	SU
GC-AP-MW-39H	8/24/2021 15:46	Temperature	20.29	C
GC-AP-MW-39H	8/24/2021 15:46	Turbidity	2.39	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-15	8/25/2021 9:06	Conductivity	582.62	uS/cm
GC-AP-MW-15	8/25/2021 9:06	DO	0.77	mg/L
GC-AP-MW-15	8/25/2021 9:06	Depth to Water Detail	16.08	ft
GC-AP-MW-15	8/25/2021 9:06	Oxidation Reduction Potention	129.44	mv
GC-AP-MW-15	8/25/2021 9:06	pH	6.02	SU
GC-AP-MW-15	8/25/2021 9:06	Temperature	19.54	C
GC-AP-MW-15	8/25/2021 9:06	Turbidity	0.45	NTU
GC-AP-MW-15	8/25/2021 9:11	Conductivity	592.71	uS/cm
GC-AP-MW-15	8/25/2021 9:11	DO	0.69	mg/L
GC-AP-MW-15	8/25/2021 9:11	Depth to Water Detail	16.08	ft
GC-AP-MW-15	8/25/2021 9:11	Oxidation Reduction Potention	117.35	mv
GC-AP-MW-15	8/25/2021 9:11	pH	6.08	SU
GC-AP-MW-15	8/25/2021 9:11	Temperature	19.55	C
GC-AP-MW-15	8/25/2021 9:11	Turbidity	0.36	NTU
GC-AP-MW-15	8/25/2021 9:16	Conductivity	594.31	uS/cm
GC-AP-MW-15	8/25/2021 9:16	DO	0.64	mg/L
GC-AP-MW-15	8/25/2021 9:16	Depth to Water Detail	16.08	ft
GC-AP-MW-15	8/25/2021 9:16	Oxidation Reduction Potention	109.45	mv
GC-AP-MW-15	8/25/2021 9:16	pH	6.11	SU
GC-AP-MW-15	8/25/2021 9:16	Temperature	19.57	C
GC-AP-MW-15	8/25/2021 9:16	Turbidity	0.19	NTU
GC-AP-MW-15	8/25/2021 9:21	Conductivity	592.76	uS/cm
GC-AP-MW-15	8/25/2021 9:21	DO	0.61	mg/L
GC-AP-MW-15	8/25/2021 9:21	Depth to Water Detail	16.08	ft
GC-AP-MW-15	8/25/2021 9:21	Oxidation Reduction Potention	103.49	mv
GC-AP-MW-15	8/25/2021 9:21	pH	6.12	SU
GC-AP-MW-15	8/25/2021 9:21	Temperature	19.58	C
GC-AP-MW-15	8/25/2021 9:21	Turbidity	0.16	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-40H	8/25/2021 10:09	Conductivity	751.35	uS/cm
GC-AP-MW-40H	8/25/2021 10:09	DO	0.22	mg/L
GC-AP-MW-40H	8/25/2021 10:09	Depth to Water Detail	12.01	ft
GC-AP-MW-40H	8/25/2021 10:09	Oxidation Reduction Potention	93.58	mv
GC-AP-MW-40H	8/25/2021 10:09	pH	5.81	SU
GC-AP-MW-40H	8/25/2021 10:09	Temperature	19.12	C
GC-AP-MW-40H	8/25/2021 10:09	Turbidity	1.82	NTU
GC-AP-MW-40H	8/25/2021 10:14	Conductivity	747.43	uS/cm
GC-AP-MW-40H	8/25/2021 10:14	DO	0.19	mg/L
GC-AP-MW-40H	8/25/2021 10:14	Depth to Water Detail	12.01	ft
GC-AP-MW-40H	8/25/2021 10:14	Oxidation Reduction Potention	93.25	mv
GC-AP-MW-40H	8/25/2021 10:14	pH	5.81	SU
GC-AP-MW-40H	8/25/2021 10:14	Temperature	19.05	C
GC-AP-MW-40H	8/25/2021 10:14	Turbidity	0.9	NTU
GC-AP-MW-40H	8/25/2021 10:19	Conductivity	750.21	uS/cm
GC-AP-MW-40H	8/25/2021 10:19	DO	0.18	mg/L
GC-AP-MW-40H	8/25/2021 10:19	Depth to Water Detail	12.01	ft
GC-AP-MW-40H	8/25/2021 10:19	Oxidation Reduction Potention	90.71	mv
GC-AP-MW-40H	8/25/2021 10:19	pH	5.86	SU
GC-AP-MW-40H	8/25/2021 10:19	Temperature	19	C
GC-AP-MW-40H	8/25/2021 10:19	Turbidity	0.52	NTU
GC-AP-MW-40H	8/25/2021 10:24	Conductivity	756.22	uS/cm
GC-AP-MW-40H	8/25/2021 10:24	DO	0.18	mg/L
GC-AP-MW-40H	8/25/2021 10:24	Depth to Water Detail	12.01	ft
GC-AP-MW-40H	8/25/2021 10:24	Oxidation Reduction Potention	87.95	mv
GC-AP-MW-40H	8/25/2021 10:24	pH	5.91	SU
GC-AP-MW-40H	8/25/2021 10:24	Temperature	19	C
GC-AP-MW-40H	8/25/2021 10:24	Turbidity	0.43	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	8/25/2021 11:10	Conductivity	1000.25	uS/cm
GC-AP-MW-14	8/25/2021 11:10	DO	0.58	mg/L
GC-AP-MW-14	8/25/2021 11:10	Depth to Water Detail	9.06	ft
GC-AP-MW-14	8/25/2021 11:10	Oxidation Reduction Potention	43.9	mv
GC-AP-MW-14	8/25/2021 11:10	pH	6.14	SU
GC-AP-MW-14	8/25/2021 11:10	Temperature	20.65	C
GC-AP-MW-14	8/25/2021 11:10	Turbidity	6.85	NTU
GC-AP-MW-14	8/25/2021 11:15	Conductivity	1029.69	uS/cm
GC-AP-MW-14	8/25/2021 11:15	DO	0.47	mg/L
GC-AP-MW-14	8/25/2021 11:15	Depth to Water Detail	9.06	ft
GC-AP-MW-14	8/25/2021 11:15	Oxidation Reduction Potention	29.74	mv
GC-AP-MW-14	8/25/2021 11:15	pH	6.16	SU
GC-AP-MW-14	8/25/2021 11:15	Temperature	20.65	C
GC-AP-MW-14	8/25/2021 11:15	Turbidity	3.7	NTU
GC-AP-MW-14	8/25/2021 11:20	Conductivity	1050.31	uS/cm
GC-AP-MW-14	8/25/2021 11:20	DO	0.43	mg/L
GC-AP-MW-14	8/25/2021 11:20	Depth to Water Detail	9.06	ft
GC-AP-MW-14	8/25/2021 11:20	Oxidation Reduction Potention	19.5	mv
GC-AP-MW-14	8/25/2021 11:20	pH	6.19	SU
GC-AP-MW-14	8/25/2021 11:20	Temperature	20.65	C
GC-AP-MW-14	8/25/2021 11:20	Turbidity	2.65	NTU
GC-AP-MW-14	8/25/2021 11:25	Conductivity	1040.25	uS/cm
GC-AP-MW-14	8/25/2021 11:25	DO	0.39	mg/L
GC-AP-MW-14	8/25/2021 11:25	Depth to Water Detail	9.06	ft
GC-AP-MW-14	8/25/2021 11:25	Oxidation Reduction Potention	12.18	mv
GC-AP-MW-14	8/25/2021 11:25	pH	6.21	SU
GC-AP-MW-14	8/25/2021 11:25	Temperature	20.62	C
GC-AP-MW-14	8/25/2021 11:25	Turbidity	1.93	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-41H	8/25/2021 12:06	Conductivity	538.6	uS/cm
GC-AP-MW-41H	8/25/2021 12:06	DO	0.31	mg/L
GC-AP-MW-41H	8/25/2021 12:06	Depth to Water Detail	11.34	ft
GC-AP-MW-41H	8/25/2021 12:06	Oxidation Reduction Potention	29.12	mv
GC-AP-MW-41H	8/25/2021 12:06	pH	6.1	SU
GC-AP-MW-41H	8/25/2021 12:06	Temperature	21	C
GC-AP-MW-41H	8/25/2021 12:06	Turbidity	15.1	NTU
GC-AP-MW-41H	8/25/2021 12:11	Conductivity	534.71	uS/cm
GC-AP-MW-41H	8/25/2021 12:11	DO	0.29	mg/L
GC-AP-MW-41H	8/25/2021 12:11	Depth to Water Detail	11.38	ft
GC-AP-MW-41H	8/25/2021 12:11	Oxidation Reduction Potention	26.31	mv
GC-AP-MW-41H	8/25/2021 12:11	pH	6.12	SU
GC-AP-MW-41H	8/25/2021 12:11	Temperature	20.93	C
GC-AP-MW-41H	8/25/2021 12:11	Turbidity	9.17	NTU
GC-AP-MW-41H	8/25/2021 12:16	Conductivity	530.05	uS/cm
GC-AP-MW-41H	8/25/2021 12:16	DO	0.28	mg/L
GC-AP-MW-41H	8/25/2021 12:16	Depth to Water Detail	11.38	ft
GC-AP-MW-41H	8/25/2021 12:16	Oxidation Reduction Potention	23.27	mv
GC-AP-MW-41H	8/25/2021 12:16	pH	6.14	SU
GC-AP-MW-41H	8/25/2021 12:16	Temperature	21	C
GC-AP-MW-41H	8/25/2021 12:16	Turbidity	4.36	NTU
GC-AP-MW-41H	8/25/2021 12:21	Conductivity	532.38	uS/cm
GC-AP-MW-41H	8/25/2021 12:21	DO	0.28	mg/L
GC-AP-MW-41H	8/25/2021 12:21	Depth to Water Detail	11.38	ft
GC-AP-MW-41H	8/25/2021 12:21	Oxidation Reduction Potention	21.44	mv
GC-AP-MW-41H	8/25/2021 12:21	pH	6.13	SU
GC-AP-MW-41H	8/25/2021 12:21	Temperature	21.09	C
GC-AP-MW-41H	8/25/2021 12:21	Turbidity	3.22	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-5	8/23/2021 15:08	Conductivity	756.35	uS/cm
GC-AP-MW-5	8/23/2021 15:08	DO	0.84	mg/L
GC-AP-MW-5	8/23/2021 15:08	Depth to Water Detail	15.64	ft
GC-AP-MW-5	8/23/2021 15:08	Oxidation Reduction Potention	-68.22	mv
GC-AP-MW-5	8/23/2021 15:08	pH	6.45	SU
GC-AP-MW-5	8/23/2021 15:08	Temperature	22.03	C
GC-AP-MW-5	8/23/2021 15:08	Turbidity	3.33	NTU
GC-AP-MW-5	8/23/2021 15:13	Conductivity	753.26	uS/cm
GC-AP-MW-5	8/23/2021 15:13	DO	0.69	mg/L
GC-AP-MW-5	8/23/2021 15:13	Depth to Water Detail	15.64	ft
GC-AP-MW-5	8/23/2021 15:13	Oxidation Reduction Potention	-71.93	mv
GC-AP-MW-5	8/23/2021 15:13	pH	6.41	SU
GC-AP-MW-5	8/23/2021 15:13	Temperature	22.02	C
GC-AP-MW-5	8/23/2021 15:13	Turbidity	1.08	NTU
GC-AP-MW-5	8/23/2021 15:18	Conductivity	752.58	uS/cm
GC-AP-MW-5	8/23/2021 15:18	DO	0.68	mg/L
GC-AP-MW-5	8/23/2021 15:18	Depth to Water Detail	15.64	ft
GC-AP-MW-5	8/23/2021 15:18	Oxidation Reduction Potention	-75.13	mv
GC-AP-MW-5	8/23/2021 15:18	pH	6.39	SU
GC-AP-MW-5	8/23/2021 15:18	Temperature	22.17	C
GC-AP-MW-5	8/23/2021 15:18	Turbidity	1.17	NTU
GC-AP-MW-5	8/23/2021 15:23	Conductivity	752.86	uS/cm
GC-AP-MW-5	8/23/2021 15:23	DO	0.64	mg/L
GC-AP-MW-5	8/23/2021 15:23	Depth to Water Detail	15.64	ft
GC-AP-MW-5	8/23/2021 15:23	Oxidation Reduction Potention	-77.95	mv
GC-AP-MW-5	8/23/2021 15:23	pH	6.5	SU
GC-AP-MW-5	8/23/2021 15:23	Temperature	22.02	C
GC-AP-MW-5	8/23/2021 15:23	Turbidity	1.41	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-6	8/24/2021 10:12	Conductivity	974.65	uS/cm
GC-AP-MW-6	8/24/2021 10:12	DO	1.11	mg/L
GC-AP-MW-6	8/24/2021 10:12	Depth to Water Detail	12.22	ft
GC-AP-MW-6	8/24/2021 10:12	Oxidation Reduction Potention	46.91	mv
GC-AP-MW-6	8/24/2021 10:12	pH	6.23	SU
GC-AP-MW-6	8/24/2021 10:12	Temperature	20.99	C
GC-AP-MW-6	8/24/2021 10:12	Turbidity	1.44	NTU
GC-AP-MW-6	8/24/2021 10:17	Conductivity	1079.33	uS/cm
GC-AP-MW-6	8/24/2021 10:17	DO	0.95	mg/L
GC-AP-MW-6	8/24/2021 10:17	Depth to Water Detail	12.22	ft
GC-AP-MW-6	8/24/2021 10:17	Oxidation Reduction Potention	54.67	mv
GC-AP-MW-6	8/24/2021 10:17	pH	6.19	SU
GC-AP-MW-6	8/24/2021 10:17	Temperature	20.89	C
GC-AP-MW-6	8/24/2021 10:17	Turbidity	1	NTU
GC-AP-MW-6	8/24/2021 10:22	Conductivity	1133.9	uS/cm
GC-AP-MW-6	8/24/2021 10:22	DO	0.89	mg/L
GC-AP-MW-6	8/24/2021 10:22	Depth to Water Detail	12.22	ft
GC-AP-MW-6	8/24/2021 10:22	Oxidation Reduction Potention	53.73	mv
GC-AP-MW-6	8/24/2021 10:22	pH	6.19	SU
GC-AP-MW-6	8/24/2021 10:22	Temperature	20.87	C
GC-AP-MW-6	8/24/2021 10:22	Turbidity	0.76	NTU
GC-AP-MW-6	8/24/2021 10:27	Conductivity	1145.55	uS/cm
GC-AP-MW-6	8/24/2021 10:27	DO	0.85	mg/L
GC-AP-MW-6	8/24/2021 10:27	Depth to Water Detail	12.22	ft
GC-AP-MW-6	8/24/2021 10:27	Oxidation Reduction Potention	36.69	mv
GC-AP-MW-6	8/24/2021 10:27	pH	6.21	SU
GC-AP-MW-6	8/24/2021 10:27	Temperature	20.98	C
GC-AP-MW-6	8/24/2021 10:27	Turbidity	0.64	NTU
GC-AP-MW-6	8/24/2021 10:32	Conductivity	1186.6	uS/cm
GC-AP-MW-6	8/24/2021 10:32	DO	0.84	mg/L
GC-AP-MW-6	8/24/2021 10:32	Depth to Water Detail	12.22	ft
GC-AP-MW-6	8/24/2021 10:32	Oxidation Reduction Potention	26.53	mv
GC-AP-MW-6	8/24/2021 10:32	pH	6.22	SU
GC-AP-MW-6	8/24/2021 10:32	Temperature	20.92	C
GC-AP-MW-6	8/24/2021 10:32	Turbidity	0.65	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-7	8/24/2021 11:02	Conductivity	1289.94	uS/cm
GC-AP-MW-7	8/24/2021 11:02	DO	1.42	mg/L
GC-AP-MW-7	8/24/2021 11:02	Depth to Water Detail	12.28	ft
GC-AP-MW-7	8/24/2021 11:02	Oxidation Reduction Potention	26.41	mv
GC-AP-MW-7	8/24/2021 11:02	pH	6.34	SU
GC-AP-MW-7	8/24/2021 11:02	Temperature	20.41	C
GC-AP-MW-7	8/24/2021 11:02	Turbidity	0.64	NTU
GC-AP-MW-7	8/24/2021 11:07	Conductivity	1292.43	uS/cm
GC-AP-MW-7	8/24/2021 11:07	DO	1.11	mg/L
GC-AP-MW-7	8/24/2021 11:07	Depth to Water Detail	12.28	ft
GC-AP-MW-7	8/24/2021 11:07	Oxidation Reduction Potention	30.99	mv
GC-AP-MW-7	8/24/2021 11:07	pH	6.3	SU
GC-AP-MW-7	8/24/2021 11:07	Temperature	20.42	C
GC-AP-MW-7	8/24/2021 11:07	Turbidity	0.67	NTU
GC-AP-MW-7	8/24/2021 11:12	Conductivity	1283.34	uS/cm
GC-AP-MW-7	8/24/2021 11:12	DO	1.02	mg/L
GC-AP-MW-7	8/24/2021 11:12	Depth to Water Detail	12.28	ft
GC-AP-MW-7	8/24/2021 11:12	Oxidation Reduction Potention	29.58	mv
GC-AP-MW-7	8/24/2021 11:12	pH	6.36	SU
GC-AP-MW-7	8/24/2021 11:12	Temperature	20.37	C
GC-AP-MW-7	8/24/2021 11:12	Turbidity	0.51	NTU
GC-AP-MW-7	8/24/2021 11:17	Conductivity	1277.72	uS/cm
GC-AP-MW-7	8/24/2021 11:17	DO	0.96	mg/L
GC-AP-MW-7	8/24/2021 11:17	Depth to Water Detail	12.28	ft
GC-AP-MW-7	8/24/2021 11:17	Oxidation Reduction Potention	30	mv
GC-AP-MW-7	8/24/2021 11:17	pH	6.4	SU
GC-AP-MW-7	8/24/2021 11:17	Temperature	20.33	C
GC-AP-MW-7	8/24/2021 11:17	Turbidity	0.42	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-8	8/24/2021 12:01	Conductivity	997.31	uS/cm
GC-AP-MW-8	8/24/2021 12:01	DO	1	mg/L
GC-AP-MW-8	8/24/2021 12:01	Depth to Water Detail	12.26	ft
GC-AP-MW-8	8/24/2021 12:01	Oxidation Reduction Potention	56.3	mv
GC-AP-MW-8	8/24/2021 12:01	pH	6.02	SU
GC-AP-MW-8	8/24/2021 12:01	Temperature	20.65	C
GC-AP-MW-8	8/24/2021 12:01	Turbidity	0.45	NTU
GC-AP-MW-8	8/24/2021 12:06	Conductivity	1026.35	uS/cm
GC-AP-MW-8	8/24/2021 12:06	DO	0.86	mg/L
GC-AP-MW-8	8/24/2021 12:06	Depth to Water Detail	12.26	ft
GC-AP-MW-8	8/24/2021 12:06	Oxidation Reduction Potention	30.27	mv
GC-AP-MW-8	8/24/2021 12:06	pH	6.05	SU
GC-AP-MW-8	8/24/2021 12:06	Temperature	20.82	C
GC-AP-MW-8	8/24/2021 12:06	Turbidity	0.37	NTU
GC-AP-MW-8	8/24/2021 12:11	Conductivity	1071.92	uS/cm
GC-AP-MW-8	8/24/2021 12:11	DO	0.82	mg/L
GC-AP-MW-8	8/24/2021 12:11	Depth to Water Detail	12.26	ft
GC-AP-MW-8	8/24/2021 12:11	Oxidation Reduction Potention	-10.64	mv
GC-AP-MW-8	8/24/2021 12:11	pH	6.08	SU
GC-AP-MW-8	8/24/2021 12:11	Temperature	20.85	C
GC-AP-MW-8	8/24/2021 12:11	Turbidity	0.51	NTU
GC-AP-MW-8	8/24/2021 12:16	Conductivity	1102.02	uS/cm
GC-AP-MW-8	8/24/2021 12:16	DO	0.79	mg/L
GC-AP-MW-8	8/24/2021 12:16	Depth to Water Detail	12.26	ft
GC-AP-MW-8	8/24/2021 12:16	Oxidation Reduction Potention	-30.82	mv
GC-AP-MW-8	8/24/2021 12:16	pH	6.11	SU
GC-AP-MW-8	8/24/2021 12:16	Temperature	20.84	C
GC-AP-MW-8	8/24/2021 12:16	Turbidity	0.34	NTU
GC-AP-MW-8	8/24/2021 12:21	Conductivity	1106.83	uS/cm
GC-AP-MW-8	8/24/2021 12:21	DO	0.78	mg/L
GC-AP-MW-8	8/24/2021 12:21	Depth to Water Detail	12.26	ft
GC-AP-MW-8	8/24/2021 12:21	Oxidation Reduction Potention	-39.71	mv
GC-AP-MW-8	8/24/2021 12:21	pH	6.16	SU
GC-AP-MW-8	8/24/2021 12:21	Temperature	20.85	C
GC-AP-MW-8	8/24/2021 12:21	Turbidity	0.32	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-9	8/24/2021 15:28	Conductivity	974.28	uS/cm
GC-AP-MW-9	8/24/2021 15:28	DO	0.75	mg/L
GC-AP-MW-9	8/24/2021 15:28	Depth to Water Detail	10	ft
GC-AP-MW-9	8/24/2021 15:28	Oxidation Reduction Potention	3.22	mv
GC-AP-MW-9	8/24/2021 15:28	pH	6.11	SU
GC-AP-MW-9	8/24/2021 15:28	Temperature	20.08	C
GC-AP-MW-9	8/24/2021 15:28	Turbidity	0.51	NTU
GC-AP-MW-9	8/24/2021 15:33	Conductivity	954.73	uS/cm
GC-AP-MW-9	8/24/2021 15:33	DO	0.58	mg/L
GC-AP-MW-9	8/24/2021 15:33	Depth to Water Detail	10	ft
GC-AP-MW-9	8/24/2021 15:33	Oxidation Reduction Potention	-2.54	mv
GC-AP-MW-9	8/24/2021 15:33	pH	6.12	SU
GC-AP-MW-9	8/24/2021 15:33	Temperature	20.1	C
GC-AP-MW-9	8/24/2021 15:33	Turbidity	0.55	NTU
GC-AP-MW-9	8/24/2021 15:38	Conductivity	962.59	uS/cm
GC-AP-MW-9	8/24/2021 15:38	DO	0.52	mg/L
GC-AP-MW-9	8/24/2021 15:38	Depth to Water Detail	10	ft
GC-AP-MW-9	8/24/2021 15:38	Oxidation Reduction Potention	-4.41	mv
GC-AP-MW-9	8/24/2021 15:38	pH	6.06	SU
GC-AP-MW-9	8/24/2021 15:38	Temperature	20.12	C
GC-AP-MW-9	8/24/2021 15:38	Turbidity	0.64	NTU
GC-AP-MW-9	8/24/2021 15:43	Conductivity	959.84	uS/cm
GC-AP-MW-9	8/24/2021 15:43	DO	0.48	mg/L
GC-AP-MW-9	8/24/2021 15:43	Depth to Water Detail	10	ft
GC-AP-MW-9	8/24/2021 15:43	Oxidation Reduction Potention	-7.42	mv
GC-AP-MW-9	8/24/2021 15:43	pH	6.08	SU
GC-AP-MW-9	8/24/2021 15:43	Temperature	20.12	C
GC-AP-MW-9	8/24/2021 15:43	Turbidity	0.58	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-10	8/24/2021 14:43	Conductivity	689.62	uS/cm
GC-AP-MW-10	8/24/2021 14:43	DO	0.51	mg/L
GC-AP-MW-10	8/24/2021 14:43	Depth to Water Detail	7.76	ft
GC-AP-MW-10	8/24/2021 14:43	Oxidation Reduction Potention	-35.75	mv
GC-AP-MW-10	8/24/2021 14:43	pH	5.92	SU
GC-AP-MW-10	8/24/2021 14:43	Temperature	19.93	C
GC-AP-MW-10	8/24/2021 14:43	Turbidity	8.24	NTU
GC-AP-MW-10	8/24/2021 14:48	Conductivity	680.22	uS/cm
GC-AP-MW-10	8/24/2021 14:48	DO	0.43	mg/L
GC-AP-MW-10	8/24/2021 14:48	Depth to Water Detail	7.76	ft
GC-AP-MW-10	8/24/2021 14:48	Oxidation Reduction Potention	-37.98	mv
GC-AP-MW-10	8/24/2021 14:48	pH	5.97	SU
GC-AP-MW-10	8/24/2021 14:48	Temperature	19.9	C
GC-AP-MW-10	8/24/2021 14:48	Turbidity	5.36	NTU
GC-AP-MW-10	8/24/2021 14:53	Conductivity	700.68	uS/cm
GC-AP-MW-10	8/24/2021 14:53	DO	0.42	mg/L
GC-AP-MW-10	8/24/2021 14:53	Depth to Water Detail	7.76	ft
GC-AP-MW-10	8/24/2021 14:53	Oxidation Reduction Potention	-42.59	mv
GC-AP-MW-10	8/24/2021 14:53	pH	5.97	SU
GC-AP-MW-10	8/24/2021 14:53	Temperature	19.89	C
GC-AP-MW-10	8/24/2021 14:53	Turbidity	4.92	NTU
GC-AP-MW-10	8/24/2021 14:58	Conductivity	711.33	uS/cm
GC-AP-MW-10	8/24/2021 14:58	DO	0.43	mg/L
GC-AP-MW-10	8/24/2021 14:58	Depth to Water Detail	7.76	ft
GC-AP-MW-10	8/24/2021 14:58	Oxidation Reduction Potention	-45.44	mv
GC-AP-MW-10	8/24/2021 14:58	pH	6.04	SU
GC-AP-MW-10	8/24/2021 14:58	Temperature	19.89	C
GC-AP-MW-10	8/24/2021 14:58	Turbidity	4.12	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-11	8/25/2021 8:42	Conductivity	595.14	uS/cm
GC-AP-MW-11	8/25/2021 8:42	DO	0.86	mg/L
GC-AP-MW-11	8/25/2021 8:42	Depth to Water Detail	19.55	ft
GC-AP-MW-11	8/25/2021 8:42	Oxidation Reduction Potention	-0.52	mv
GC-AP-MW-11	8/25/2021 8:42	pH	6.38	SU
GC-AP-MW-11	8/25/2021 8:42	Temperature	21.13	C
GC-AP-MW-11	8/25/2021 8:42	Turbidity	2.13	NTU
GC-AP-MW-11	8/25/2021 8:47	Conductivity	590.71	uS/cm
GC-AP-MW-11	8/25/2021 8:47	DO	0.74	mg/L
GC-AP-MW-11	8/25/2021 8:47	Depth to Water Detail	19.55	ft
GC-AP-MW-11	8/25/2021 8:47	Oxidation Reduction Potention	-0.73	mv
GC-AP-MW-11	8/25/2021 8:47	pH	6.36	SU
GC-AP-MW-11	8/25/2021 8:47	Temperature	21.15	C
GC-AP-MW-11	8/25/2021 8:47	Turbidity	2.15	NTU
GC-AP-MW-11	8/25/2021 8:52	Conductivity	587.46	uS/cm
GC-AP-MW-11	8/25/2021 8:52	DO	0.68	mg/L
GC-AP-MW-11	8/25/2021 8:52	Depth to Water Detail	19.55	ft
GC-AP-MW-11	8/25/2021 8:52	Oxidation Reduction Potention	0.44	mv
GC-AP-MW-11	8/25/2021 8:52	pH	6.35	SU
GC-AP-MW-11	8/25/2021 8:52	Temperature	21.19	C
GC-AP-MW-11	8/25/2021 8:52	Turbidity	1.82	NTU
GC-AP-MW-11	8/25/2021 8:57	Conductivity	587.09	uS/cm
GC-AP-MW-11	8/25/2021 8:57	DO	0.65	mg/L
GC-AP-MW-11	8/25/2021 8:57	Depth to Water Detail	19.55	ft
GC-AP-MW-11	8/25/2021 8:57	Oxidation Reduction Potention	2.71	mv
GC-AP-MW-11	8/25/2021 8:57	pH	6.38	SU
GC-AP-MW-11	8/25/2021 8:57	Temperature	21.24	C
GC-AP-MW-11	8/25/2021 8:57	Turbidity	1.54	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-12	8/25/2021 10:21	Conductivity	416.62	uS/cm
GC-AP-MW-12	8/25/2021 10:21	DO	1.18	mg/L
GC-AP-MW-12	8/25/2021 10:21	Depth to Water Detail	22.33	ft
GC-AP-MW-12	8/25/2021 10:21	Oxidation Reduction Potention	56.41	mv
GC-AP-MW-12	8/25/2021 10:21	pH	6.97	SU
GC-AP-MW-12	8/25/2021 10:21	Temperature	22.15	C
GC-AP-MW-12	8/25/2021 10:21	Turbidity	1.37	NTU
GC-AP-MW-12	8/25/2021 10:26	Conductivity	412.26	uS/cm
GC-AP-MW-12	8/25/2021 10:26	DO	0.97	mg/L
GC-AP-MW-12	8/25/2021 10:26	Depth to Water Detail	22.33	ft
GC-AP-MW-12	8/25/2021 10:26	Oxidation Reduction Potention	55.92	mv
GC-AP-MW-12	8/25/2021 10:26	pH	7.07	SU
GC-AP-MW-12	8/25/2021 10:26	Temperature	22.49	C
GC-AP-MW-12	8/25/2021 10:26	Turbidity	1.28	NTU
GC-AP-MW-12	8/25/2021 10:31	Conductivity	412	uS/cm
GC-AP-MW-12	8/25/2021 10:31	DO	0.87	mg/L
GC-AP-MW-12	8/25/2021 10:31	Depth to Water Detail	22.33	ft
GC-AP-MW-12	8/25/2021 10:31	Oxidation Reduction Potention	57.07	mv
GC-AP-MW-12	8/25/2021 10:31	pH	7.06	SU
GC-AP-MW-12	8/25/2021 10:31	Temperature	22.42	C
GC-AP-MW-12	8/25/2021 10:31	Turbidity	1.14	NTU
GC-AP-MW-12	8/25/2021 10:36	Conductivity	410.7	uS/cm
GC-AP-MW-12	8/25/2021 10:36	DO	0.83	mg/L
GC-AP-MW-12	8/25/2021 10:36	Depth to Water Detail	22.33	ft
GC-AP-MW-12	8/25/2021 10:36	Oxidation Reduction Potention	57.52	mv
GC-AP-MW-12	8/25/2021 10:36	pH	7.04	SU
GC-AP-MW-12	8/25/2021 10:36	Temperature	22.24	C
GC-AP-MW-12	8/25/2021 10:36	Turbidity	1.2	NTU

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WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-13	8/25/2021 11:19	Conductivity	523.1	uS/cm
GC-AP-MW-13	8/25/2021 11:19	DO	1.22	mg/L
GC-AP-MW-13	8/25/2021 11:19	Depth to Water Detail	23.6	ft
GC-AP-MW-13	8/25/2021 11:19	Oxidation Reduction Potention	78.73	mv
GC-AP-MW-13	8/25/2021 11:19	pH	6.68	SU
GC-AP-MW-13	8/25/2021 11:19	Temperature	22.55	C
GC-AP-MW-13	8/25/2021 11:19	Turbidity	1.99	NTU
GC-AP-MW-13	8/25/2021 11:24	Conductivity	530.75	uS/cm
GC-AP-MW-13	8/25/2021 11:24	DO	1.13	mg/L
GC-AP-MW-13	8/25/2021 11:24	Depth to Water Detail	23.6	ft
GC-AP-MW-13	8/25/2021 11:24	Oxidation Reduction Potention	84.59	mv
GC-AP-MW-13	8/25/2021 11:24	pH	6.63	SU
GC-AP-MW-13	8/25/2021 11:24	Temperature	22.66	C
GC-AP-MW-13	8/25/2021 11:24	Turbidity	1.45	NTU
GC-AP-MW-13	8/25/2021 11:29	Conductivity	534.01	uS/cm
GC-AP-MW-13	8/25/2021 11:29	DO	1.14	mg/L
GC-AP-MW-13	8/25/2021 11:29	Depth to Water Detail	23.6	ft
GC-AP-MW-13	8/25/2021 11:29	Oxidation Reduction Potention	85.76	mv
GC-AP-MW-13	8/25/2021 11:29	pH	6.64	SU
GC-AP-MW-13	8/25/2021 11:29	Temperature	22.79	C
GC-AP-MW-13	8/25/2021 11:29	Turbidity	1.37	NTU
GC-AP-MW-13	8/25/2021 11:34	Conductivity	534.83	uS/cm
GC-AP-MW-13	8/25/2021 11:34	DO	1.15	mg/L
GC-AP-MW-13	8/25/2021 11:34	Depth to Water Detail	23.6	ft
GC-AP-MW-13	8/25/2021 11:34	Oxidation Reduction Potention	88.01	mv
GC-AP-MW-13	8/25/2021 11:34	pH	6.66	SU
GC-AP-MW-13	8/25/2021 11:34	Temperature	22.61	C
GC-AP-MW-13	8/25/2021 11:34	Turbidity	1.21	NTU

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Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-21	8/25/2021 9:34	Conductivity	338.19	uS/cm
GC-AP-MW-21	8/25/2021 9:34	DO	0.42	mg/L
GC-AP-MW-21	8/25/2021 9:34	Depth to Water Detail	24.44	ft
GC-AP-MW-21	8/25/2021 9:34	Oxidation Reduction Potention	43.04	mv
GC-AP-MW-21	8/25/2021 9:34	pH	6.46	SU
GC-AP-MW-21	8/25/2021 9:34	Temperature	22.45	C
GC-AP-MW-21	8/25/2021 9:34	Turbidity	1.84	NTU
GC-AP-MW-21	8/25/2021 9:39	Conductivity	342.38	uS/cm
GC-AP-MW-21	8/25/2021 9:39	DO	0.37	mg/L
GC-AP-MW-21	8/25/2021 9:39	Depth to Water Detail	24.44	ft
GC-AP-MW-21	8/25/2021 9:39	Oxidation Reduction Potention	51.67	mv
GC-AP-MW-21	8/25/2021 9:39	pH	6.47	SU
GC-AP-MW-21	8/25/2021 9:39	Temperature	22.41	C
GC-AP-MW-21	8/25/2021 9:39	Turbidity	1.56	NTU
GC-AP-MW-21	8/25/2021 9:44	Conductivity	340.84	uS/cm
GC-AP-MW-21	8/25/2021 9:44	DO	0.41	mg/L
GC-AP-MW-21	8/25/2021 9:44	Depth to Water Detail	24.44	ft
GC-AP-MW-21	8/25/2021 9:44	Oxidation Reduction Potention	57.22	mv
GC-AP-MW-21	8/25/2021 9:44	pH	6.48	SU
GC-AP-MW-21	8/25/2021 9:44	Temperature	22.55	C
GC-AP-MW-21	8/25/2021 9:44	Turbidity	1.37	NTU
GC-AP-MW-21	8/25/2021 9:49	Conductivity	342.54	uS/cm
GC-AP-MW-21	8/25/2021 9:49	DO	0.42	mg/L
GC-AP-MW-21	8/25/2021 9:49	Depth to Water Detail	24.44	ft
GC-AP-MW-21	8/25/2021 9:49	Oxidation Reduction Potention	61.69	mv
GC-AP-MW-21	8/25/2021 9:49	pH	6.51	SU
GC-AP-MW-21	8/25/2021 9:49	Temperature	22.69	C
GC-AP-MW-21	8/25/2021 9:49	Turbidity	1.26	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-25	8/24/2021 13:09	Conductivity	270.47	uS/cm
GC-AP-MW-25	8/24/2021 13:09	DO	1.18	mg/L
GC-AP-MW-25	8/24/2021 13:09	Depth to Water Detail	15.41	ft
GC-AP-MW-25	8/24/2021 13:09	Oxidation Reduction Potention	102.57	mv
GC-AP-MW-25	8/24/2021 13:09	pH	4.8	SU
GC-AP-MW-25	8/24/2021 13:09	Temperature	21.93	C
GC-AP-MW-25	8/24/2021 13:09	Turbidity	0.45	NTU
GC-AP-MW-25	8/24/2021 13:14	Conductivity	304.93	uS/cm
GC-AP-MW-25	8/24/2021 13:14	DO	1.25	mg/L
GC-AP-MW-25	8/24/2021 13:14	Depth to Water Detail	15.44	ft
GC-AP-MW-25	8/24/2021 13:14	Oxidation Reduction Potention	111.79	mv
GC-AP-MW-25	8/24/2021 13:14	pH	4.86	SU
GC-AP-MW-25	8/24/2021 13:14	Temperature	22.5	C
GC-AP-MW-25	8/24/2021 13:14	Turbidity	0.42	NTU
GC-AP-MW-25	8/24/2021 13:19	Conductivity	313.38	uS/cm
GC-AP-MW-25	8/24/2021 13:19	DO	0.93	mg/L
GC-AP-MW-25	8/24/2021 13:19	Depth to Water Detail	15.44	ft
GC-AP-MW-25	8/24/2021 13:19	Oxidation Reduction Potention	97.39	mv
GC-AP-MW-25	8/24/2021 13:19	pH	5.18	SU
GC-AP-MW-25	8/24/2021 13:19	Temperature	21.86	C
GC-AP-MW-25	8/24/2021 13:19	Turbidity	0.37	NTU
GC-AP-MW-25	8/24/2021 13:24	Conductivity	324.05	uS/cm
GC-AP-MW-25	8/24/2021 13:24	DO	0.95	mg/L
GC-AP-MW-25	8/24/2021 13:24	Depth to Water Detail	15.44	ft
GC-AP-MW-25	8/24/2021 13:24	Oxidation Reduction Potention	90.21	mv
GC-AP-MW-25	8/24/2021 13:24	pH	5.22	SU
GC-AP-MW-25	8/24/2021 13:24	Temperature	22.1	C
GC-AP-MW-25	8/24/2021 13:24	Turbidity	0.56	NTU
GC-AP-MW-25	8/24/2021 13:29	Conductivity	318.26	uS/cm
GC-AP-MW-25	8/24/2021 13:29	DO	0.94	mg/L
GC-AP-MW-25	8/24/2021 13:29	Depth to Water Detail	15.44	ft
GC-AP-MW-25	8/24/2021 13:29	Oxidation Reduction Potention	87.35	mv
GC-AP-MW-25	8/24/2021 13:29	pH	5.25	SU
GC-AP-MW-25	8/24/2021 13:29	Temperature	22.03	C
GC-AP-MW-25	8/24/2021 13:29	Turbidity	0.48	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-31	8/23/2021 11:42	Conductivity	68.81	uS/cm
GC-AP-MW-31	8/23/2021 11:42	DO	2.05	mg/L
GC-AP-MW-31	8/23/2021 11:42	Depth to Water Detail	8.88	ft
GC-AP-MW-31	8/23/2021 11:42	Oxidation Reduction Potention	105.78	mv
GC-AP-MW-31	8/23/2021 11:42	pH	5.65	SU
GC-AP-MW-31	8/23/2021 11:42	Temperature	20.6	C
GC-AP-MW-31	8/23/2021 11:42	Turbidity	1.76	NTU
GC-AP-MW-31	8/23/2021 11:47	Conductivity	70.3	uS/cm
GC-AP-MW-31	8/23/2021 11:47	DO	2	mg/L
GC-AP-MW-31	8/23/2021 11:47	Depth to Water Detail	8.88	ft
GC-AP-MW-31	8/23/2021 11:47	Oxidation Reduction Potention	118.03	mv
GC-AP-MW-31	8/23/2021 11:47	pH	5.66	SU
GC-AP-MW-31	8/23/2021 11:47	Temperature	20.54	C
GC-AP-MW-31	8/23/2021 11:47	Turbidity	1.62	NTU
GC-AP-MW-31	8/23/2021 11:52	Conductivity	71.82	uS/cm
GC-AP-MW-31	8/23/2021 11:52	DO	1.98	mg/L
GC-AP-MW-31	8/23/2021 11:52	Depth to Water Detail	8.88	ft
GC-AP-MW-31	8/23/2021 11:52	Oxidation Reduction Potention	118.67	mv
GC-AP-MW-31	8/23/2021 11:52	pH	5.65	SU
GC-AP-MW-31	8/23/2021 11:52	Temperature	20.41	C
GC-AP-MW-31	8/23/2021 11:52	Turbidity	0.86	NTU
GC-AP-MW-31	8/23/2021 11:57	Conductivity	72.14	uS/cm
GC-AP-MW-31	8/23/2021 11:57	DO	1.97	mg/L
GC-AP-MW-31	8/23/2021 11:57	Depth to Water Detail	8.88	ft
GC-AP-MW-31	8/23/2021 11:57	Oxidation Reduction Potention	133.49	mv
GC-AP-MW-31	8/23/2021 11:57	pH	5.67	SU
GC-AP-MW-31	8/23/2021 11:57	Temperature	20.18	C
GC-AP-MW-31	8/23/2021 11:57	Turbidity	1.1	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-32	8/23/2021 12:39	Conductivity	103.33	uS/cm
GC-AP-MW-32	8/23/2021 12:39	DO	4.84	mg/L
GC-AP-MW-32	8/23/2021 12:39	Depth to Water Detail	19.94	ft
GC-AP-MW-32	8/23/2021 12:39	Oxidation Reduction Potention	160.61	mv
GC-AP-MW-32	8/23/2021 12:39	pH	4.47	SU
GC-AP-MW-32	8/23/2021 12:39	Temperature	19.98	C
GC-AP-MW-32	8/23/2021 12:39	Turbidity	1.08	NTU
GC-AP-MW-32	8/23/2021 12:44	Conductivity	102.69	uS/cm
GC-AP-MW-32	8/23/2021 12:44	DO	4.98	mg/L
GC-AP-MW-32	8/23/2021 12:44	Depth to Water Detail	19.94	ft
GC-AP-MW-32	8/23/2021 12:44	Oxidation Reduction Potention	167.78	mv
GC-AP-MW-32	8/23/2021 12:44	pH	4.32	SU
GC-AP-MW-32	8/23/2021 12:44	Temperature	19.94	C
GC-AP-MW-32	8/23/2021 12:44	Turbidity	0.83	NTU
GC-AP-MW-32	8/23/2021 12:49	Conductivity	99.71	uS/cm
GC-AP-MW-32	8/23/2021 12:49	DO	5.12	mg/L
GC-AP-MW-32	8/23/2021 12:49	Depth to Water Detail	19.94	ft
GC-AP-MW-32	8/23/2021 12:49	Oxidation Reduction Potention	172.72	mv
GC-AP-MW-32	8/23/2021 12:49	pH	4.18	SU
GC-AP-MW-32	8/23/2021 12:49	Temperature	19.92	C
GC-AP-MW-32	8/23/2021 12:49	Turbidity	0.67	NTU
GC-AP-MW-32	8/23/2021 12:54	Conductivity	95.86	uS/cm
GC-AP-MW-32	8/23/2021 12:54	DO	5.17	mg/L
GC-AP-MW-32	8/23/2021 12:54	Depth to Water Detail	19.94	ft
GC-AP-MW-32	8/23/2021 12:54	Oxidation Reduction Potention	174.71	mv
GC-AP-MW-32	8/23/2021 12:54	pH	4.26	SU
GC-AP-MW-32	8/23/2021 12:54	Temperature	19.96	C
GC-AP-MW-32	8/23/2021 12:54	Turbidity	0.78	NTU
GC-AP-MW-32	8/23/2021 12:59	Conductivity	96.04	uS/cm
GC-AP-MW-32	8/23/2021 12:59	DO	5.2	mg/L
GC-AP-MW-32	8/23/2021 12:59	Depth to Water Detail	19.94	ft
GC-AP-MW-32	8/23/2021 12:59	Oxidation Reduction Potention	176.9	mv
GC-AP-MW-32	8/23/2021 12:59	pH	4.17	SU
GC-AP-MW-32	8/23/2021 12:59	Temperature	19.94	C
GC-AP-MW-32	8/23/2021 12:59	Turbidity	0.68	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-33	8/23/2021 13:47	Conductivity	65.41	uS/cm
GC-AP-MW-33	8/23/2021 13:47	DO	4.63	mg/L
GC-AP-MW-33	8/23/2021 13:47	Depth to Water Detail	16.92	ft
GC-AP-MW-33	8/23/2021 13:47	Oxidation Reduction Potention	133.72	mv
GC-AP-MW-33	8/23/2021 13:47	pH	5.75	SU
GC-AP-MW-33	8/23/2021 13:47	Temperature	22.75	C
GC-AP-MW-33	8/23/2021 13:47	Turbidity	0.56	NTU
GC-AP-MW-33	8/23/2021 13:52	Conductivity	68.05	uS/cm
GC-AP-MW-33	8/23/2021 13:52	DO	4.5	mg/L
GC-AP-MW-33	8/23/2021 13:52	Depth to Water Detail	16.92	ft
GC-AP-MW-33	8/23/2021 13:52	Oxidation Reduction Potention	136.52	mv
GC-AP-MW-33	8/23/2021 13:52	pH	5.68	SU
GC-AP-MW-33	8/23/2021 13:52	Temperature	21.72	C
GC-AP-MW-33	8/23/2021 13:52	Turbidity	0.54	NTU
GC-AP-MW-33	8/23/2021 13:57	Conductivity	69.04	uS/cm
GC-AP-MW-33	8/23/2021 13:57	DO	4.43	mg/L
GC-AP-MW-33	8/23/2021 13:57	Depth to Water Detail	16.92	ft
GC-AP-MW-33	8/23/2021 13:57	Oxidation Reduction Potention	134.16	mv
GC-AP-MW-33	8/23/2021 13:57	pH	5.78	SU
GC-AP-MW-33	8/23/2021 13:57	Temperature	22.26	C
GC-AP-MW-33	8/23/2021 13:57	Turbidity	0.46	NTU
GC-AP-MW-33	8/23/2021 14:02	Conductivity	69.36	uS/cm
GC-AP-MW-33	8/23/2021 14:02	DO	4.38	mg/L
GC-AP-MW-33	8/23/2021 14:02	Depth to Water Detail	16.92	ft
GC-AP-MW-33	8/23/2021 14:02	Oxidation Reduction Potention	123.14	mv
GC-AP-MW-33	8/23/2021 14:02	pH	5.94	SU
GC-AP-MW-33	8/23/2021 14:02	Temperature	22.52	C
GC-AP-MW-33	8/23/2021 14:02	Turbidity	0.48	NTU
GC-AP-MW-33	8/23/2021 14:07	Conductivity	68.91	uS/cm
GC-AP-MW-33	8/23/2021 14:07	DO	4.36	mg/L
GC-AP-MW-33	8/23/2021 14:07	Depth to Water Detail	16.92	ft
GC-AP-MW-33	8/23/2021 14:07	Oxidation Reduction Potention	113.56	mv
GC-AP-MW-33	8/23/2021 14:07	pH	5.98	SU
GC-AP-MW-33	8/23/2021 14:07	Temperature	22.59	C
GC-AP-MW-33	8/23/2021 14:07	Turbidity	0.42	NTU
GC-AP-MW-33	8/23/2021 14:12	Conductivity	69.08	uS/cm
GC-AP-MW-33	8/23/2021 14:12	DO	4.35	mg/L
GC-AP-MW-33	8/23/2021 14:12	Depth to Water Detail	16.92	ft
GC-AP-MW-33	8/23/2021 14:12	Oxidation Reduction Potention	110.24	mv
GC-AP-MW-33	8/23/2021 14:12	pH	6.04	SU
GC-AP-MW-33	8/23/2021 14:12	Temperature	22.46	C
GC-AP-MW-33	8/23/2021 14:12	Turbidity	0.47	NTU

**Alabama Power
Plant Greene County Ash Pod**

WELL ID	TIME OF READING	DESCRIPTION	VALUE	UNIT
GC-AP-MW-34HA	8/23/2021 16:03	Conductivity	133.92	uS/cm
GC-AP-MW-34HA	8/23/2021 16:03	DO	2.97	mg/L
GC-AP-MW-34HA	8/23/2021 16:03	Depth to Water Detail	21.77	ft
GC-AP-MW-34HA	8/23/2021 16:03	Oxidation Reduction Potention	126.65	mv
GC-AP-MW-34HA	8/23/2021 16:03	pH	5.45	SU
GC-AP-MW-34HA	8/23/2021 16:03	Temperature	22.66	C
GC-AP-MW-34HA	8/23/2021 16:03	Turbidity	1.38	NTU
GC-AP-MW-34HA	8/23/2021 16:08	Conductivity	136.07	uS/cm
GC-AP-MW-34HA	8/23/2021 16:08	DO	2.8	mg/L
GC-AP-MW-34HA	8/23/2021 16:08	Depth to Water Detail	21.77	ft
GC-AP-MW-34HA	8/23/2021 16:08	Oxidation Reduction Potention	134.05	mv
GC-AP-MW-34HA	8/23/2021 16:08	pH	5.44	SU
GC-AP-MW-34HA	8/23/2021 16:08	Temperature	22.72	C
GC-AP-MW-34HA	8/23/2021 16:08	Turbidity	1.12	NTU
GC-AP-MW-34HA	8/23/2021 16:13	Conductivity	136.78	uS/cm
GC-AP-MW-34HA	8/23/2021 16:13	DO	2.75	mg/L
GC-AP-MW-34HA	8/23/2021 16:13	Depth to Water Detail	21.77	ft
GC-AP-MW-34HA	8/23/2021 16:13	Oxidation Reduction Potention	132.98	mv
GC-AP-MW-34HA	8/23/2021 16:13	pH	5.47	SU
GC-AP-MW-34HA	8/23/2021 16:13	Temperature	22.76	C
GC-AP-MW-34HA	8/23/2021 16:13	Turbidity	1.09	NTU
GC-AP-MW-34HA	8/23/2021 16:18	Conductivity	136.63	uS/cm
GC-AP-MW-34HA	8/23/2021 16:18	DO	2.73	mg/L
GC-AP-MW-34HA	8/23/2021 16:18	Depth to Water Detail	21.77	ft
GC-AP-MW-34HA	8/23/2021 16:18	Oxidation Reduction Potention	128.81	mv
GC-AP-MW-34HA	8/23/2021 16:18	pH	5.54	SU
GC-AP-MW-34HA	8/23/2021 16:18	Temperature	22.7	C
GC-AP-MW-34HA	8/23/2021 16:18	Turbidity	1.04	NTU

Appendix D



Appendix D. Horizontal Groundwater Flow Velocity Calculations

Plant Greene County Ash Pond
2021 Annual Groundwater Monitoring Period

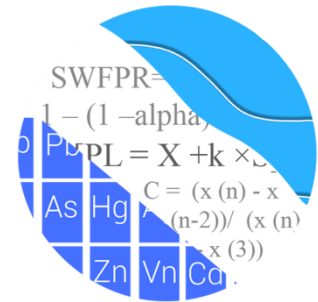
Date	MW-25	MW-18	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h ₁ (ft)	h ₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	K (ft/d)	n	(ft/d)	(ft/yr)
3/8/2021	92.08	77.58	1815.0	0.00799	51.93	0.25	1.66	605.71
8/16/2021	91.67	76.56	1815.0	0.00833			1.73	631.19

Date	MW-6	MW-7	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h ₁ (ft)	h ₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	K (ft/d)	n	(ft/d)	(ft/yr)
3/8/2021	91.63	87.95	1230.0	0.00299	51.93	0.25	0.62	226.84
8/16/2021	90.31	86.54	1230.0	0.00307			0.64	232.38

Notes:
ft = feet
ft/d = feet per day
ft/ft = feet per foot
ft/yr = feet per year

Appendix E

GROUNDWATER STATS CONSULTING



May 21, 2021

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Greene County Ash Pond
1st Semi-Annual Analysis – March 2021

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 March 2021 1st semi-annual sample event for Alabama Power Company's Plant Greene County 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 USEPA Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-26, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30
- **Downgradient wells:** GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33

- **Delineation wells:** GC-AP-PZ-4, GC-AP-MW-34HA, GC-AP-MW-35H, GC-AP-MW-36H, GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-42H, GC-AP-MW-43H, GC-AP-MW-44H, GC-AP-MW-45H, GC-AP-MW-46HO, GC-AP-MW-47HO, GC-AP-MW-48H, GC-AP-MW-49H, GC-AP-MW-50HO, GC-AP-MW-52HO, GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-55HO, GC-AP-MW-57H, and GC-AP-MW-59HO
- **Piezometers:** GC-AP-PZ-19 and GC-AP-PZ-22

Note that delineation wells did not require statistics; therefore, they were plotted only on time series and box plots. Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Founder and Groundwater Statistician 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 list of Appendix IV downgradient well/constituent pairs with 100% nondetects 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 nondetect 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 Samples: 112
- # Constituents: 7
- # Downgradient wells: 22

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 nondetects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends 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 as appropriate.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect 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% nondetects.

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 following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summary – Conducted in September 2019

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate trends, as well as for outliers over the entire record. Interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Prior to performing prediction limits, proposed background data through May 2019 were reviewed to identify any newly suspected outliers at all upgradient wells for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Both Tukey's Test and visual screening are used to identify potential outliers. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. Potential outliers that are identified by Tukey's test but are not greatly different from the rest of the data are not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of flagged values follows this letter.

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, deselection of the earlier portion of data may be required prior to construction of interwell statistical

limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Several statistically significant trends were noted in upgradient wells and may be seen on the Trend Test Summary Table that accompanied the September 2019 background update. These trends required no adjustments, however, because the period of record is short and/or the magnitudes of the trends were low relative to the average concentrations in background.

One exception to this was upgradient well GC-AP-MW-24 which had significantly increasing trending data for calcium, sulfate, and TDS. However, the current reported observations for calcium and TDS were similar to those observed in upgradient well GC-AP-MW-23; therefore, no adjustments were made to this record for those constituents. Additionally, no adjustments were made for sulfate since the nonparametric prediction limit is determined by the latter part of the record and would not be affected if the earlier data were truncated. However, all of these trends will be monitored in subsequent analyses, and the background records may be adjusted in the future.

Evaluation of Appendix III Parameters – March 2021

Background (upgradient) well data for Appendix III constituents were re-assessed for potential outliers during this analysis. No new values were flagged. Values in background which have been previously flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of 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 March 2021 to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Note that during this analysis, the reporting limit for boron increased from <0.1 mg/L to <0.1015 mg/L. This resulted in a slight increase in statistical limits, but the prediction limit findings were consistent with those from the Fall 2020 report.

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. When no resamples are collected,

any initial exceedances are considered SSIs. 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.

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of natural variability in groundwater which may be unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-14, GC-AP-MW-15, and GC-AP-MW-25
- Calcium: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17 and GC-AP-MW-24 (upgradient)
- Chloride: GC-AP-MW-9 and GC-AP-MW-18
- Fluoride: GC-AP-MW-3, GC-AP-MW-14, and GC-AP-MW-16
- Sulfate: GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-24 (upgradient), and GC-AP-MW-28 (upgradient)
- TDS: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-24 (upgradient), and GC-AP-MW-25

Decreasing:

- Boron: GC-AP-MW-11
- Calcium: GC-AP-MW-23, GC-AP-MW-28, and GC-AP-MW-29 (all upgradient)
- Chloride: GC-AP-MW-5 and GC-AP-MW-25
- pH: GC-AP-MW-23, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30 (all upgradient)
- Sulfate: GC-AP-MW-15 and GC-AP-MW-23 (upgradient)
- TDS: GC-AP-MW-23 and GC-AP-MW-29 (all upgradient)

Evaluation of Appendix IV Parameters – March 2021

Data from all upgradient wells for Appendix IV parameters were reassessed for outliers during previous analyses. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) utilized during the 2019 2nd semi-annual report were used in the confidence interval analysis for this 2021 1st semi-annual report. The GWPS will be updated during the 2021 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data (Figure F). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. When data followed a normal or transformed-normal distribution, parametric tolerance limits were used to calculate background limits for Appendix IV parameters using pooled upgradient well data through September 2019 with a target of 95% confidence and 95% coverage. Nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% nondetects. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. These background limits are then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two is used as the GWPS (Figure G) in the confidence interval comparisons described below. In future UTL calculations, nonparametric tolerance limits will be used exclusively, as requested by ADEM, to eliminate variation among upgradient well data.

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through March 2021 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 nondetects. As mentioned above, well/constituent pairs with 100% nondetects in the most recent 8 samples did not require statistics; therefore they were deselected prior to construction of confidence intervals. As mentioned above, a list of deselected well/constituent pairs follows this report. The decision logic, with respect to the use of a parametric or nonparametric confidence interval, is similar to that used to construct tolerance limits as discussed above. 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.

Note the following reporting limits changed from the previous analysis to this analysis:

- Antimony: <0.003 mg/L to <0.001015 mg/L
- Beryllium: <0.003 mg/L to <0.001015 mg/L
- Cadmium: <0.001 mg/L to <0.000203 mg/L
- Chromium: <0.01 mg/L to <0.001015 mg/L
- Cobalt: <0.005 mg/L to <0.0002023 mg/L
- Lead: <0.005 mg/L to <0.0002023 mg/L
- Molybdenum: <0.01 mg/L to <0.000203 mg/L
- Selenium: <0.01 mg/L to <0.001015 mg/L
- Thallium: <0.001 mg/L to <0.000203 mg/L

While this resulted in slight changes to the upper and lower confidence limits in some cases, the confidence interval findings were consistent with those from the Fall 2020 analysis. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18
- Cobalt: GC-AP-MW-1, GC-AP-MW-11, and GC-AP-MW-14
- Lithium: GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, and GC-AP-MW-21

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Greene County Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins
Project Manager



Kristina Rayner
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/20/2021 4:57 PM View: 100% Nondetects

Plant Greene County Client: Southern Company Data: Greene County AP

Beryllium (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Boron (mg/L)

GC-AP-MW-32

Cadmium (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-7, GC-AP-MW-9

Chromium (mg/L)

GC-AP-MW-11

Lead (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8

Lithium (mg/L)

GC-AP-MW-2, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-7

Mercury (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Molybdenum (mg/L)

GC-AP-MW-15, GC-AP-MW-3, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-9

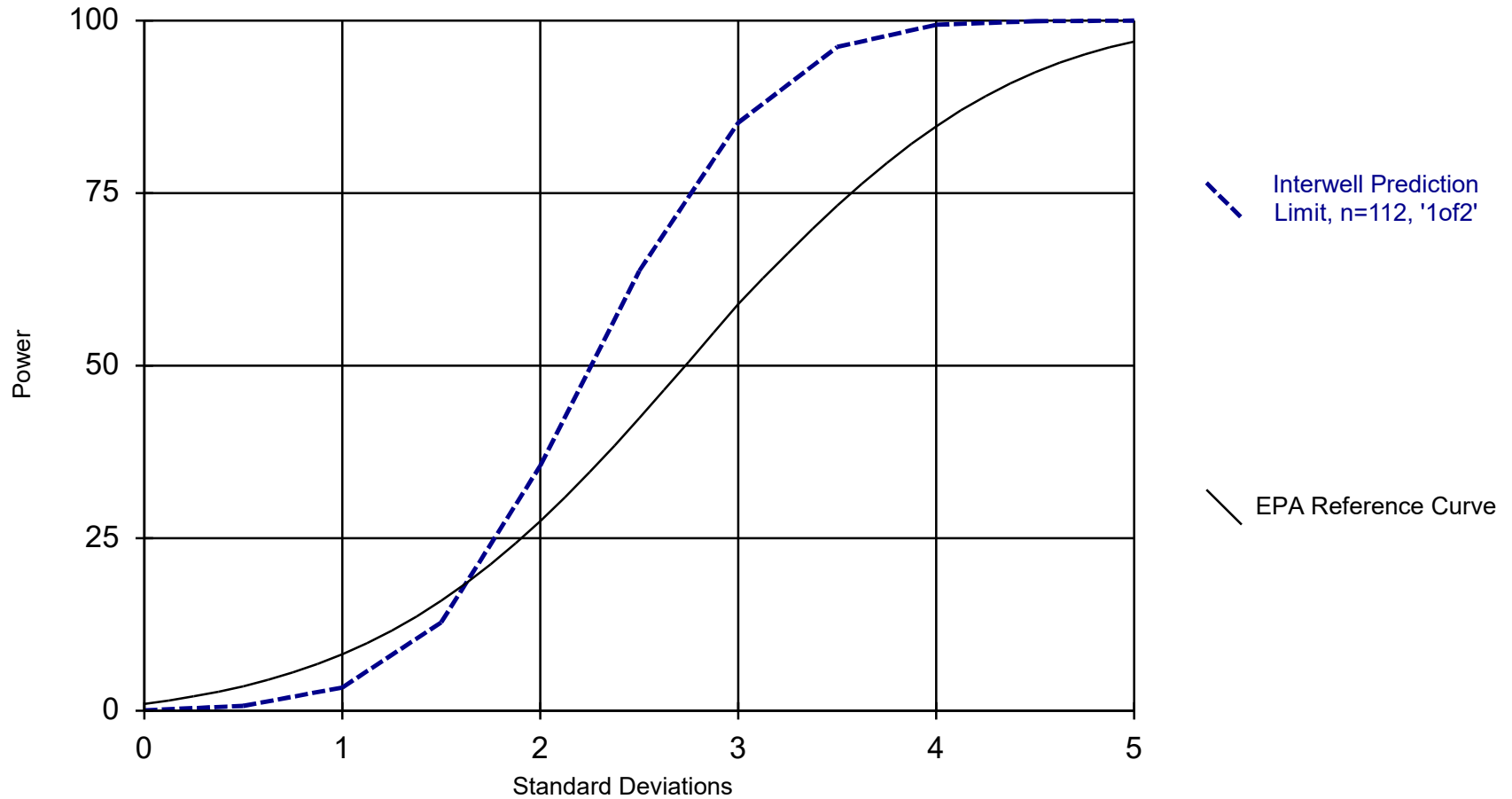
Selenium (mg/L)

GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Thallium (mg/L)

GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-8, GC-AP-MW-9

Power Curve



Kappa = 2.168, based on 22 compliance wells and 8 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 5/21/2021 10:34 AM

Plant Greene County Client: Southern Company Data: Greene County AP

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:12 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)	GC-AP-MW-1	0.1015	n/a	3/16/2021	0.313	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	3/15/2021	1.79	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	3/10/2021	0.502	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	3/10/2021	0.389	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	3/15/2021	0.523	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	3/9/2021	1.81	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	3/10/2021	0.825	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	3/9/2021	1.94	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	3/9/2021	2.45	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	3/9/2021	1.52	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	3/16/2021	0.134	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	3/10/2021	0.528	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	3/10/2021	0.146	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	3/16/2021	0.694	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	3/9/2021	1.49	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	3/9/2021	0.397	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	3/9/2021	1.57	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	3/9/2021	1.12	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	3/16/2021	109	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	3/15/2021	73.8	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	3/10/2021	55.1	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	3/15/2021	68.9	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	3/9/2021	115	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	3/10/2021	67.4	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	3/9/2021	101	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	3/9/2021	118	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	3/9/2021	82	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	3/16/2021	145	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	3/10/2021	44.9	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	3/16/2021	66.6	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	3/16/2021	99.7	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	3/9/2021	119	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	3/9/2021	160	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	3/9/2021	100	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	3/9/2021	82.1	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.865	n/a	3/16/2021	16.6	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.865	n/a	3/15/2021	23.2	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.865	n/a	3/10/2021	17.1	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.865	n/a	3/10/2021	9.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.865	n/a	3/15/2021	7.68	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.865	n/a	3/9/2021	10.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.865	n/a	3/10/2021	11.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.865	n/a	3/9/2021	12	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.865	n/a	3/9/2021	14.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.865	n/a	3/9/2021	25.2	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.865	n/a	3/16/2021	11.6	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.865	n/a	3/10/2021	20.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.865	n/a	3/10/2021	25.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.865	n/a	3/16/2021	24.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.865	n/a	3/16/2021	10.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-6	5.865	n/a	3/9/2021	47.5	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.865	n/a	3/9/2021	80.7	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.865	n/a	3/9/2021	106	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.865	n/a	3/9/2021	53.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	3/15/2021	0.324	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	3/10/2021	0.161	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	3/9/2021	0.263	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	3/9/2021	0.286	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	3/9/2021	0.628	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	3/9/2021	0.205	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	3/16/2021	0.185	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	3/16/2021	0.23	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	3/16/2021	0.282	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	3/9/2021	0.17	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.9	3/10/2021	6.89	Yes	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	3/16/2021	933	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/10/2021	155	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	3/15/2021	204	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	3/9/2021	165	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/10/2021	136	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/16/2021	548	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	3/16/2021	167	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/9/2021	187	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/9/2021	347	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/9/2021	107	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	3/16/2021	1620	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	3/15/2021	406	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	3/10/2021	274	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	3/10/2021	331	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	3/15/2021	374	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	3/9/2021	618	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	3/10/2021	397	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	3/9/2021	524	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	3/9/2021	684	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	3/9/2021	412	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	3/16/2021	890	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	3/10/2021	296	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	3/10/2021	246	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	3/16/2021	340	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	3/16/2021	510	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	179	n/a	3/9/2021	716	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	3/9/2021	1090	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	3/9/2021	746	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	3/9/2021	532	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:13 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)	GC-AP-MW-1	0.1015	n/a	3/16/2021	0.313	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	3/15/2021	1.79	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	3/10/2021	0.502	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	3/10/2021	0.389	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	3/15/2021	0.523	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	3/9/2021	1.81	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	3/10/2021	0.825	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	3/9/2021	1.94	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	3/9/2021	2.45	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	3/9/2021	1.52	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	3/16/2021	0.134	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	3/10/2021	0.528	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	3/10/2021	0.146	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	3/16/2021	0.0445J	No	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	3/15/2021	0.1015ND	No	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	3/15/2021	0.1015ND	No	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	3/15/2021	0.1015ND	No	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	3/16/2021	0.694	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	3/9/2021	1.49	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	3/9/2021	0.397	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	3/9/2021	1.57	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	3/9/2021	1.12	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	3/16/2021	109	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	3/15/2021	73.8	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.8	n/a	3/10/2021	39.9	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	3/10/2021	55.1	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	3/15/2021	68.9	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	3/9/2021	115	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	3/10/2021	67.4	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	3/9/2021	101	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	3/9/2021	118	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	3/9/2021	82	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	3/16/2021	145	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	3/10/2021	44.9	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.8	n/a	3/10/2021	29.3	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	3/16/2021	66.6	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	42.8	n/a	3/15/2021	5.9	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	42.8	n/a	3/15/2021	2.02	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	42.8	n/a	3/15/2021	9.77	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	3/16/2021	99.7	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	3/9/2021	119	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	3/9/2021	160	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	3/9/2021	100	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	3/9/2021	82.1	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.865	n/a	3/16/2021	16.6	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.865	n/a	3/15/2021	23.2	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.865	n/a	3/10/2021	17.1	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.865	n/a	3/10/2021	9.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.865	n/a	3/15/2021	7.68	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.865	n/a	3/9/2021	10.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-15	5.865	n/a	3/10/2021	11.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.865	n/a	3/9/2021	12	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.865	n/a	3/9/2021	14.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.865	n/a	3/9/2021	25.2	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.865	n/a	3/16/2021	11.6	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.865	n/a	3/10/2021	20.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.865	n/a	3/10/2021	25.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.865	n/a	3/16/2021	24.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.865	n/a	3/15/2021	5.47	No	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.865	n/a	3/15/2021	5.57	No	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.865	n/a	3/15/2021	4.18	No	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.865	n/a	3/16/2021	10.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.865	n/a	3/9/2021	47.5	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.865	n/a	3/9/2021	80.7	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.865	n/a	3/9/2021	106	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.865	n/a	3/9/2021	53.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	3/16/2021	0.129	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	3/15/2021	0.324	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	3/10/2021	0.0749J	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	3/10/2021	0.161	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	3/15/2021	0.0737J	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	3/9/2021	0.263	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	3/10/2021	0.115	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	3/9/2021	0.286	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	3/9/2021	0.628	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	3/9/2021	0.205	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	3/16/2021	0.185	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	3/10/2021	0.113	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	3/10/2021	0.104	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	3/16/2021	0.23	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	3/15/2021	0.1ND	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	3/15/2021	0.1ND	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	3/15/2021	0.1ND	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	3/16/2021	0.282	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	3/9/2021	0.17	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	3/9/2021	0.0949J	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	3/9/2021	0.109	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	3/9/2021	0.147	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.8	3.9	3/16/2021	5.67	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.9	3/15/2021	6.29	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.9	3/10/2021	5.97	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.9	3/10/2021	6.89	Yes	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-13	6.8	3.9	3/15/2021	6	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.9	3/9/2021	6.48	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.9	3/10/2021	6.08	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.9	3/9/2021	6.29	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.9	3/9/2021	6.52	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.9	3/9/2021	6.39	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.9	3/16/2021	5.87	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.9	3/10/2021	6.26	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GC-AP-MW-25	6.8	3.9	3/10/2021	5.71	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.9	3/16/2021	6.23	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.9	3/15/2021	5.61	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.9	3/15/2021	4.57	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.9	3/15/2021	5.83	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.9	3/16/2021	6.64	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.9	3/9/2021	6.43	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.9	3/9/2021	6.45	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.9	3/9/2021	6.31	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.9	3/9/2021	6.14	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	3/16/2021	933	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	3/15/2021	68.5	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	3/10/2021	73.2	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/10/2021	155	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	3/15/2021	204	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	3/9/2021	165	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/10/2021	136	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	3/9/2021	43.9	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	3/9/2021	95.8	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	3/9/2021	11.6	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/16/2021	548	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	3/10/2021	51.7	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	3/10/2021	70.3	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	3/16/2021	7.62	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	3/15/2021	3.74	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	3/15/2021	8.5	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	3/15/2021	2.76	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	3/16/2021	167	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/9/2021	187	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/9/2021	347	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	3/9/2021	71.7	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/9/2021	107	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	3/16/2021	1620	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	3/15/2021	406	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	3/10/2021	274	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	3/10/2021	331	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	3/15/2021	374	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	3/9/2021	618	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	3/10/2021	397	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	3/9/2021	524	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	3/9/2021	684	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	3/9/2021	412	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	3/16/2021	890	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	3/10/2021	296	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	3/10/2021	246	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	3/16/2021	340	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	179	n/a	3/15/2021	49.3	No	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	179	n/a	3/15/2021	46	No	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	179	n/a	3/15/2021	48	No	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	3/16/2021	510	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant: Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:13 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)	GC-AP-MW-6	179	n/a	3/9/2021	716	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	3/9/2021	1090	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	3/9/2021	746	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	3/9/2021	532	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2

Trend Test Summary - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.02785	65	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.06098	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2181	80	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08388	91	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.005522	70	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03789	67	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.07849	61	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2312	103	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	4.935	66	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	20.59	78	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	3.549	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.75	118	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	10.72	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	9.626	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.608	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	7.733	122	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.211	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.2903	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	8.157	114	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	22.41	99	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.6975	71	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-1.222	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.035	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	4	104	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.03019	82	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01768	78	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.0134	76	63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.08524	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1052	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1547	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.6207	-150	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.147	-135	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	31.6	76	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-10.44	-82	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.738	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	21.4	103	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6924	73	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	33.08	110	63	Yes	17	5.882	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	11.32	79	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	19.69	96	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	31.25	124	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	46.44	81	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	37.9	66	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-8.691	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	32.06	100	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	14.03	88	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-8.883	-86	-63	Yes	17	52.94	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	39.42	100	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	92.02	113	63	Yes	17	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.02785	65	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	0.007636	7	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.06098	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	-0.008738	-8	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.03977	14	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2181	80	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08388	91	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.103	57	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.07988	54	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05904	-56	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.003695	37	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	-0.01241	-20	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	28	58	No	16	81.25	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.005522	70	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	5	58	No	16	93.75	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	17	58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	5	58	No	16	93.75	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	9	58	No	16	93.75	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03789	67	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.07179	-53	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-7	0.05773	58	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.07849	61	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2312	103	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-17.01	-62	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	2.02	40	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	2.071	40	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	4.935	66	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	20.59	78	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	3.549	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.75	118	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	10.72	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-2.029	-28	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	9.626	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21	-0.2471	-2	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.608	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	7.733	122	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.5741	-50	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	-0.006421	-8	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.211	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.2903	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	-0.9601	-8	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1016	-40	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	8.157	114	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	6.072	43	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	2.051	17	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.546	32	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	22.41	99	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-1	-1.326	-37	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	0.1893	8	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.6385	-27	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.4447	-21	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	-0.5955	-21	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.6745	-47	-63	No	17	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-15	0	8	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.3483	-23	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-0.8317	-26	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.6975	71	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.04401	-7	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	0.7112	16	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.05649	-57	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.3061	28	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-1.222	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.1062	-31	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.08661	40	63	No	17	5.882	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.1068	-52	-63	No	17	11.76	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.3204	-61	-63	No	17	11.76	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	0	-10	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.3555	33	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.035	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	1.407	37	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	4.471	40	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-3.569	-13	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	4	104	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.0005547	2	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.01056	50	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.03019	82	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01768	78	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03483	60	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.006815	56	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-2	0.003214	12	63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.002095	32	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0.001385	46	63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	0	-10	-43	No	13	38.46	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	15	58	No	16	93.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	7	58	No	16	87.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	29	63	No	17	88.24	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.0134	76	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	16	63	No	17	94.12	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0.001122	12	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.008992	48	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-12	0.009481	25	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.08524	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05363	-78	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.1425	-75	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1052	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1547	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.6207	-150	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.147	-135	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	31.6	76	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-12	-0.7303	-12	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	5.199	21	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	27.75	58	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-10.44	-82	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	35.26	50	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.738	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	21.4	103	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-2.331	-60	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.2984	47	63	No	17	29.41	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6924	73	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	-1	-63	No	17	58.82	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	-9	-63	No	17	88.24	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	33.08	110	63	Yes	17	5.882	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	6.295	28	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	14.93	23	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	16.03	45	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	44.64	51	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	11.32	79	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	19.69	96	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-12	7.218	22	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	11.93	37	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	88.14	55	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	1.438	7	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	31.25	124	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	46.44	81	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-16.06	-42	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	37.9	66	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-7.028	-19	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-8.691	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	32.06	100	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	14.03	88	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-4.935	-46	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.3695	22	63	No	17	29.41	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.865	-58	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-8.883	-86	-63	Yes	17	52.94	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-2.89	-25	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	0.9953	34	63	No	17	29.41	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	39.42	100	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	19.58	33	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	16.71	35	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	-3.812	-4	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	92.02	113	63	Yes	17	0	n/a	n/a	0.01	NP

Upper Tolerance Limits - Appendix IV

Greene County Client: Southern Company Data: Greene County AP Printed 7/23/2020, 8:28 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.003	n/a	91	n/a	n/a	89.01	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	91	n/a	n/a	85.71	n/a	n/a	0.009394	NP Inter(NDs)
Barium (mg/L)	0.347	n/a	91	n/a	n/a	0	n/a	n/a	0.009394	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	91	n/a	n/a	86.81	n/a	n/a	0.009394	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	91	n/a	n/a	78.02	n/a	n/a	0.009394	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Cobalt (mg/L)	0.0167	n/a	91	n/a	n/a	60.44	n/a	n/a	0.009394	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.88	n/a	91	n/a	n/a	4.396	n/a	n/a	0.009394	NP Inter(normal...
Fluoride (mg/L)	0.159	n/a	92	n/a	n/a	61.96	n/a	n/a	0.008924	NP Inter(normal...
Lead (mg/L)	0.005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	91	n/a	n/a	98.9	n/a	n/a	0.009394	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	91	n/a	n/a	91.21	n/a	n/a	0.009394	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	91	n/a	n/a	97.8	n/a	n/a	0.009394	NP Inter(NDs)

GREENE COUNTY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	1.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	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 2019.

Confidence Interval Summary Table - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.02569	0.01931	0.01	Yes	8	0.0225	0.00301	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0233	0.0121	0.01	Yes	8	0.01463	0.003689	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-14	0.03279	0.02046	0.01	Yes	8	0.02663	0.005816	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.104	0.06647	0.01	Yes	8	0.08521	0.01769	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.7145	0.2903	0.01	Yes	8	0.5024	0.2001	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.0661	0.0477	0.01	Yes	8	0.05304	0.007249	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-5	0.4596	0.4104	0.01	Yes	8	0.435	0.02324	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2217	0.07051	0.0167	Yes	8	0.1461	0.07132	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.03812	0.01876	0.0167	Yes	8	0.02844	0.009132	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.03559	0.01738	0.0167	Yes	8	0.02649	0.00859	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.155	0.104	0.04	Yes	8	0.1193	0.01591	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1273	0.08185	0.04	Yes	8	0.1046	0.02145	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1311	0.05136	0.04	Yes	8	0.09125	0.03764	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.3271	0.07565	0.04	Yes	8	0.2014	0.1186	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.9973	0.5717	0.04	Yes	8	0.7845	0.2008	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6209	0.5311	0.04	Yes	8	0.576	0.04236	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6425	0.5135	0.04	Yes	8	0.578	0.06089	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.742	0.525	0.04	Yes	8	0.6319	0.1118	0	None	In(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3931	0.3386	0.04	Yes	8	0.3659	0.02569	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.112	0.04593	0.04	Yes	8	0.07898	0.03118	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1374	0.1018	0.04	Yes	8	0.1196	0.01677	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-1	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-11	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-12	0.00121	0.000656	0.006	No	8	0.0009945	0.0001529	75	None	No	0.004	NP (normality)
Antimony (mg/L)	GC-AP-MW-13	0.003408	0.001845	0.006	No	8	0.002626	0.0007372	0	None	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.001015	0.000897	0.006	No	8	0.001	0.00004172	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.001015	0.000964	0.006	No	8	0.001009	0.00001803	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-25	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-3	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-31	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-32	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-33	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.00141	0.001015	0.006	No	8	0.001064	0.0001397	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-1	0.02569	0.01931	0.01	Yes	8	0.0225	0.00301	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0233	0.0121	0.01	Yes	8	0.01463	0.003689	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-11	0.00682	0.002945	0.01	No	8	0.004883	0.001828	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.000251	0.000203	0.01	No	8	0.000209	0.00001697	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-13	0.004974	0.001641	0.01	No	8	0.003258	0.001731	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.03279	0.02046	0.01	Yes	8	0.02663	0.005816	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-15	0.000349	0.000203	0.01	No	8	0.0002213	0.00005162	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-16	0.104	0.06647	0.01	Yes	8	0.08521	0.01769	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.7145	0.2903	0.01	Yes	8	0.5024	0.2001	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.0661	0.0477	0.01	Yes	8	0.05304	0.007249	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-2	0.01658	0.005614	0.01	No	8	0.0111	0.005174	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.000216	0.000203	0.01	No	8	0.0002046	0.000004596	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-25	0.00033	0.000203	0.01	No	8	0.0002189	0.0000449	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-3	0.009595	0.006147	0.01	No	8	0.007871	0.001627	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-31	0.000203	0.000111	0.01	No	8	0.0001915	0.00003253	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.000203	0.000142	0.01	No	8	0.0001954	0.00002157	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.000203	0.000203	0.01	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-5	0.4596	0.4104	0.01	Yes	8	0.435	0.02324	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-6	0.000303	0.000203	0.01	No	8	0.0002155	0.00003536	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-7	0.000203	0.00015	0.01	No	8	0.0001964	0.00001874	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-8	0.000248	0.000203	0.01	No	8	0.0002086	0.00001591	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-9	0.0107	0.009412	0.01	No	8	0.01006	0.0006089	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03564	0.02169	2	No	8	0.02866	0.006581	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.261	0.167	2	No	8	0.194	0.03295	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-11	0.08528	0.05869	2	No	8	0.07185	0.01304	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03143	0.01919	2	No	8	0.02519	0.006391	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1931	0.07579	2	No	8	0.1329	0.06861	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1067	0.05961	2	No	8	0.08315	0.0222	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.0365	0.0269	2	No	8	0.0312	0.004224	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-16	0.09538	0.05234	2	No	8	0.07386	0.0203	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3319	0.1828	2	No	8	0.2574	0.07034	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1299	0.08438	2	No	8	0.1071	0.02146	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03553	0.02892	2	No	8	0.03223	0.003123	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GC-AP-MW-21	0.0827	0.03511	2	No	8	0.05835	0.02472	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1074	0.08194	2	No	8	0.09469	0.01203	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.159	0.0936	2	No	8	0.1124	0.02415	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-31	0.02925	0.02205	2	No	8	0.02565	0.0034	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0692	0.0123	2	No	8	0.02021	0.01981	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.09765	0.05349	2	No	8	0.07448	0.02729	0	None	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.3077	0.1457	2	No	8	0.2293	0.07859	0	None	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.07786	0.05082	2	No	8	0.06434	0.01276	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08524	0.06904	2	No	8	0.07714	0.007643	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1299	0.07796	2	No	8	0.1039	0.02449	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1899	0.1228	2	No	8	0.1564	0.03165	0	None	No	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-25	0.001015	0.001015	0.004	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.001	0.000347	0.005	No	8	0.0009184	0.0002309	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.001	0.00012	0.005	No	8	0.00089	0.0003111	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.001	0.00013	0.005	No	8	0.0008913	0.0003076	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.001	0.0000702	0.005	No	8	0.0008838	0.0003287	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.001	0.005	No	8	0.001223	0.0006293	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.001	0.000241	0.005	No	8	0.0009051	0.0002683	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.01	0.000341	0.1	No	8	0.008793	0.003415	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-10	0.01	0.000357	0.1	No	8	0.008795	0.003409	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-12	0.01	0.000224	0.1	No	8	0.008778	0.003456	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-13	0.01	0.000311	0.1	No	8	0.008789	0.003426	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-14	0.01	0.000357	0.1	No	8	0.008795	0.003409	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-15	0.01	0.000301	0.1	No	8	0.008788	0.003429	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.01	0.000444	0.1	No	8	0.008805	0.003379	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-17	0.01	0.000216	0.1	No	8	0.008777	0.003459	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-18	0.01	0.000346	0.1	No	8	0.008793	0.003413	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-2	0.01	0.0004	0.1	No	8	0.0088	0.003394	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-21	0.01	0.000333	0.1	No	8	0.008792	0.003418	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-25	0.01	0.0003	0.1	No	8	0.008787	0.003429	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-3	0.01	0.000347	0.1	No	8	0.008793	0.003413	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-31	0.01	0.000468	0.1	No	8	0.008808	0.00337	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-32	0.01	0.000431	0.1	No	8	0.008804	0.003383	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-33	0.01	0.000679	0.1	No	8	0.008835	0.003295	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-5	0.01	0.000285	0.1	No	8	0.008786	0.003435	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-6	0.01	0.000347	0.1	No	8	0.008793	0.003413	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-7	0.01	0.000351	0.1	No	8	0.008794	0.003411	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-8	0.01	0.000346	0.1	No	8	0.008793	0.003413	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-9	0.01	0.000381	0.1	No	8	0.008798	0.003401	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-1	0.2217	0.07051	0.0167	Yes	8	0.1461	0.07132	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.0475	0.0139	0.0167	No	8	0.02204	0.01156	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-11	0.03812	0.01876	0.0167	Yes	8	0.02844	0.009132	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.00118	0.000203	0.0167	No	8	0.0003251	0.0003454	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-13	0.000312	0.000203	0.0167	No	8	0.0002166	0.00003854	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-14	0.03559	0.01738	0.0167	Yes	8	0.02649	0.00859	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01965	0.0156	0.0167	No	8	0.01763	0.001912	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01688	0.01287	0.0167	No	8	0.01488	0.00189	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.03371	0.01125	0.0167	No	8	0.02215	0.01169	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01735	0.0142	0.0167	No	8	0.01578	0.00149	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.02359	0.008406	0.0167	No	8	0.016	0.007165	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-21	0.00204	0.000203	0.0167	No	8	0.0004326	0.0006495	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-25	0.01307	0.007886	0.0167	No	8	0.01053	0.00253	0	None	x^2	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.004602	0.002574	0.0167	No	8	0.003287	0.001758	12.5	None	x^3	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-31	0.000624	0.000203	0.0167	No	8	0.0002556	0.0001488	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-32	0.000908	0.000203	0.0167	No	8	0.0002911	0.0002493	87.5	None	No	0.004	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-33	0.000203	0.000203	0.0167	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.007703	0.004832	0.0167	No	8	0.006268	0.001354	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003464	0.001329	0.0167	No	8	0.002397	0.001007	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003666	0.0006954	0.0167	No	8	0.002181	0.001498	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.01042	0.00494	0.0167	No	8	0.00768	0.002585	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.0206	0.01213	0.0167	No	8	0.01636	0.003998	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.43	0.8066	5	No	8	1.118	0.2939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.12	0.558	5	No	8	0.9028	0.2509	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.7615	0.3757	5	No	8	0.5686	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.177	0.000207	5	No	8	0.4272	0.6228	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.8322	0.2713	5	No	8	0.5423	0.3117	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.497	0.7398	5	No	8	1.118	0.357	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	3.99	-0.365	5	No	8	0.8578	1.323	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.33	0.4297	5	No	8	0.8796	0.4245	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	1.978	0.8471	5	No	8	1.412	0.5333	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.236	0.8171	5	No	8	1.027	0.1976	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	0.9392	0.4051	5	No	8	0.6721	0.252	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.5065	0.005136	5	No	8	0.2558	0.2365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.9068	0.0475	5	No	8	0.4771	0.4053	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.298	0.6791	5	No	8	0.9886	0.292	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.6996	0.138	5	No	8	0.4188	0.2649	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	2.079	-0.03608	5	No	8	0.6141	1.138	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.435	0.5113	5	No	8	1.473	0.9075	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	1.89	1.063	5	No	8	1.477	0.3898	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.288	0.3581	5	No	8	0.8229	0.4385	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.116	0.5092	5	No	8	0.8043	0.3369	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.21	0.2226	5	No	8	0.7163	0.4657	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.676	0.5926	5	No	8	1.134	0.511	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1709	0.05784	4	No	8	0.1144	0.05334	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2827	0.2006	4	No	8	0.2416	0.03875	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1838	0.1042	4	No	8	0.144	0.03753	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2328	0.1717	4	No	8	0.2023	0.02886	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1412	0.07918	4	No	8	0.1102	0.02927	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.2733	0.1572	4	No	8	0.2153	0.05476	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1408	0.1035	4	No	8	0.1221	0.01761	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.3012	0.2383	4	No	8	0.2698	0.02972	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.6037	0.4458	4	No	8	0.5248	0.07444	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.197	0.1612	4	No	8	0.1791	0.01689	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1541	0.06746	4	No	8	0.1098	0.04348	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2221	0.1502	4	No	8	0.1861	0.03392	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.104	0.05	4	No	8	0.05675	0.01909	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-3	0.1716	0.08792	4	No	8	0.1289	0.04491	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.05	0.05	4	No	8	0.05	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.0518	0.04	4	No	8	0.04773	0.004808	62.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.1	0.05	4	No	8	0.0625	0.01909	62.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-5	0.2546	0.2016	4	No	8	0.2281	0.02501	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2423	0.1974	4	No	8	0.2201	0.02315	0	None	x^3	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1019	0.07938	4	No	8	0.09063	0.01061	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.162	0.109	4	No	8	0.118	0.01794	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.2087	0.1628	4	No	8	0.1858	0.02167	0	None	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.005	0.000109	0.015	No	8	0.004389	0.001729	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-2	0.005	0.000736	0.015	No	8	0.004467	0.001508	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-25	0.005	0.0000884	0.015	No	8	0.004386	0.001737	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.005	0.000121	0.015	No	8	0.00439	0.001725	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.005	0.0000784	0.015	No	8	0.004385	0.00174	87.5	None	No	0.004	NP (NDs)

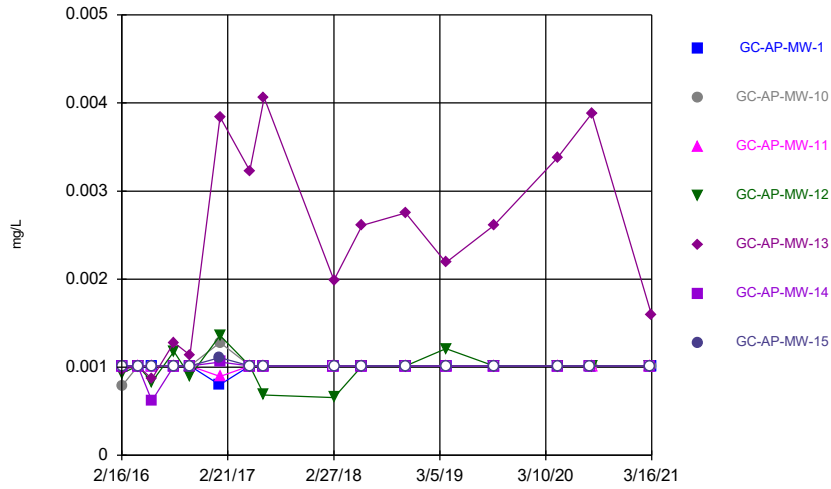
Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GC-AP-MW-1	0.01	0.01	0.04	No	8	0.01	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-10	0.155	0.104	0.04	Yes	8	0.1193	0.01591	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1273	0.08185	0.04	Yes	8	0.1046	0.02145	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1311	0.05136	0.04	Yes	8	0.09125	0.03764	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.3271	0.07565	0.04	Yes	8	0.2014	0.1186	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.9973	0.5717	0.04	Yes	8	0.7845	0.2008	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6209	0.5311	0.04	Yes	8	0.576	0.04236	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6425	0.5135	0.04	Yes	8	0.578	0.06089	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.742	0.525	0.04	Yes	8	0.6319	0.1118	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3931	0.3386	0.04	Yes	8	0.3659	0.02569	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.112	0.04593	0.04	Yes	8	0.07898	0.03118	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1374	0.1018	0.04	Yes	8	0.1196	0.01677	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.03345	0.01353	0.04	No	8	0.0233	0.01229	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.07076	0.02357	0.04	No	8	0.04716	0.02226	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.09929	0.03109	0.04	No	8	0.06519	0.03217	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-1	0.01	0.000117	0.1	No	8	0.008765	0.003494	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.011	0.00747	0.1	No	8	0.0084	0.001416	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-11	0.01725	0.00795	0.1	No	8	0.0126	0.004388	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.1168	0.07077	0.1	No	8	0.09378	0.02171	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.08967	0.01487	0.1	No	8	0.05059	0.04516	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01769	0.01061	0.1	No	8	0.01415	0.003338	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.01	0.000113	0.1	No	8	0.008764	0.003496	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-17	0.08118	0.04154	0.1	No	8	0.06136	0.0187	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.01	0.000362	0.1	No	8	0.008795	0.003408	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-2	0.01	0.0000804	0.1	No	8	0.00876	0.003507	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-21	0.0682	0.0403	0.1	No	8	0.05349	0.01778	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-25	0.01	0.0000843	0.1	No	8	0.008761	0.003506	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.01	0.0000741	0.1	No	8	0.008759	0.003509	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.00373	0.00264	0.1	No	8	0.003185	0.0005145	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.01	0.0024	0.1	No	8	0.00905	0.002687	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-7	0.01	0.000156	0.1	No	8	0.008769	0.00348	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-8	0.01	0.0000812	0.1	No	8	0.00876	0.003507	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.01	0.00163	0.05	No	8	0.007961	0.003777	75	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-13	0.01746	0.003259	0.05	No	8	0.01141	0.006572	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GC-AP-MW-3	0.01	0.000959	0.05	No	8	0.00887	0.003196	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.000203	0.000107	0.002	No	8	0.000191	0.00003394	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-11	0.000203	0.000087	0.002	No	8	0.0001885	0.00004101	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-13	0.001284	0.0001522	0.002	No	8	0.0006874	0.0006628	12.5	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.000203	0.0000878	0.002	No	8	0.0001886	0.00004073	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.0003924	0.0003043	0.002	No	8	0.0003484	0.00004157	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-17	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.000203	0.000101	0.002	No	8	0.0001903	0.00003606	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-21	0.000203	0.000106	0.002	No	8	0.0001909	0.00003429	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-3	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-7	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)

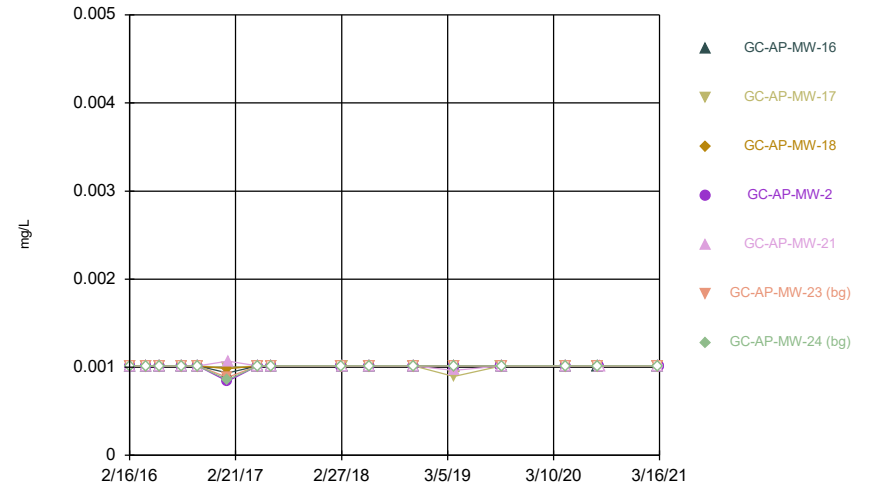
FIGURE A.

Time Series



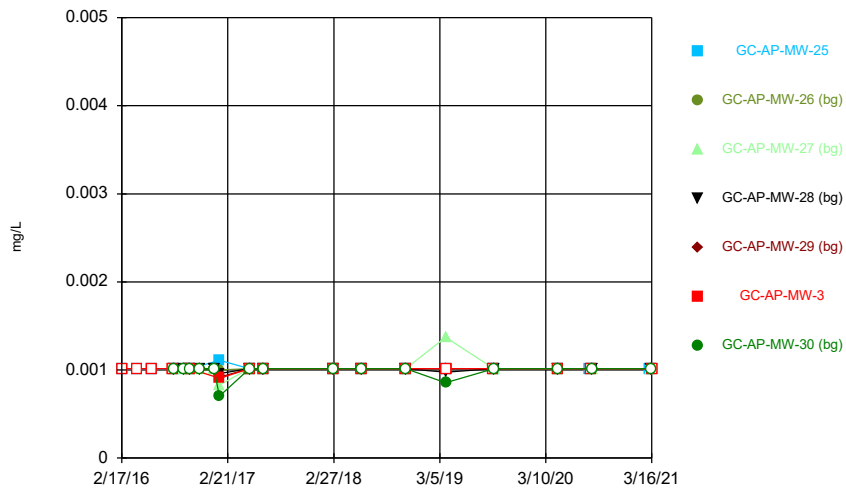
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



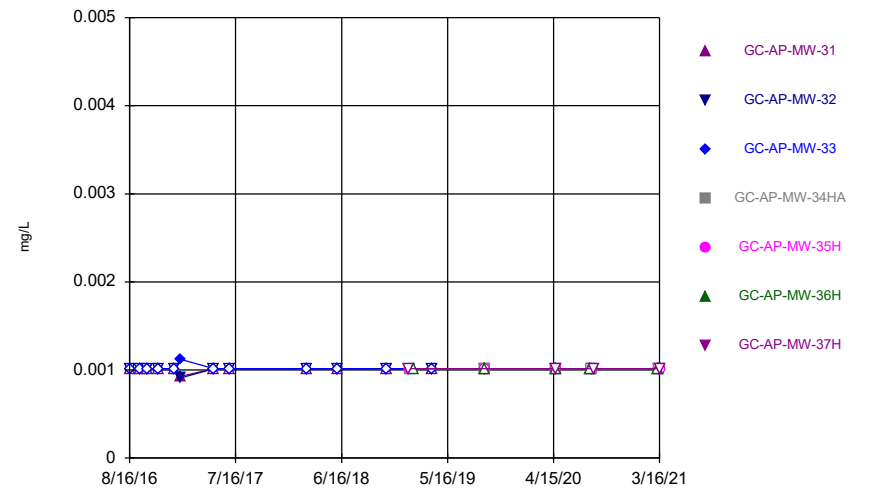
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Time Series



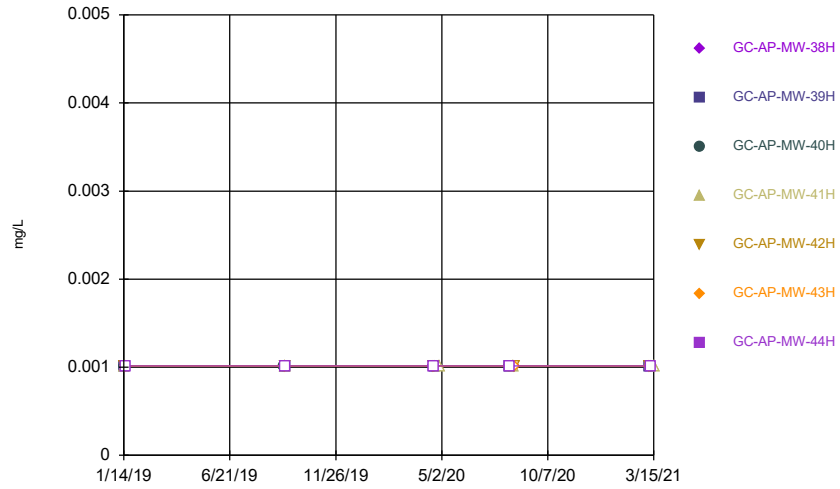
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Time Series



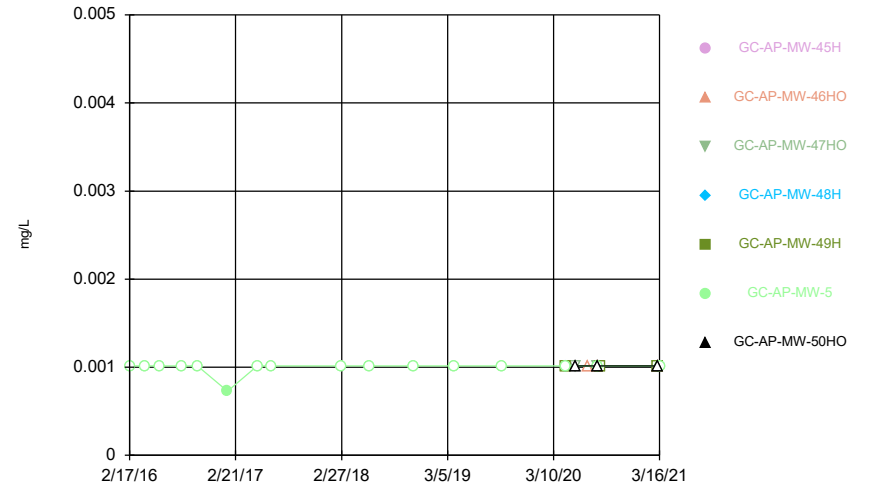
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Time Series



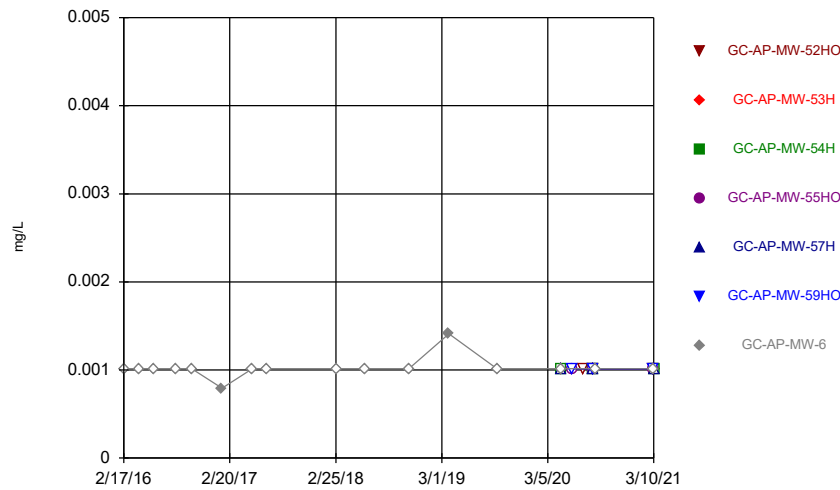
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Time Series



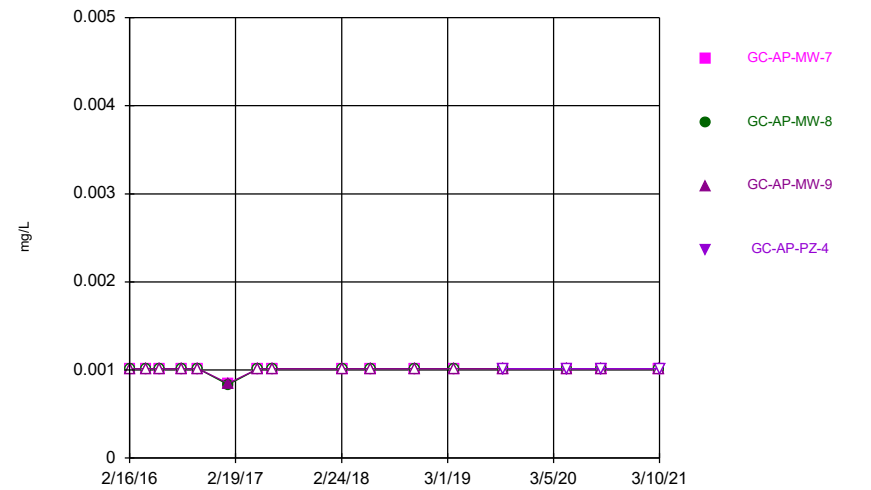
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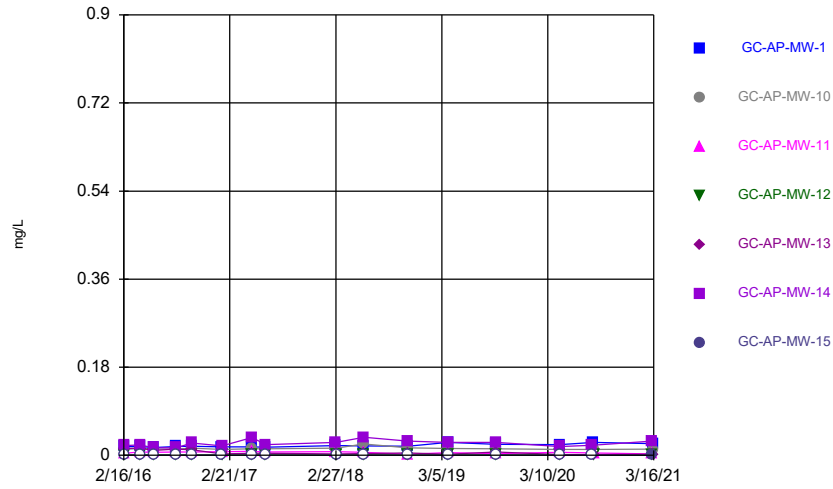
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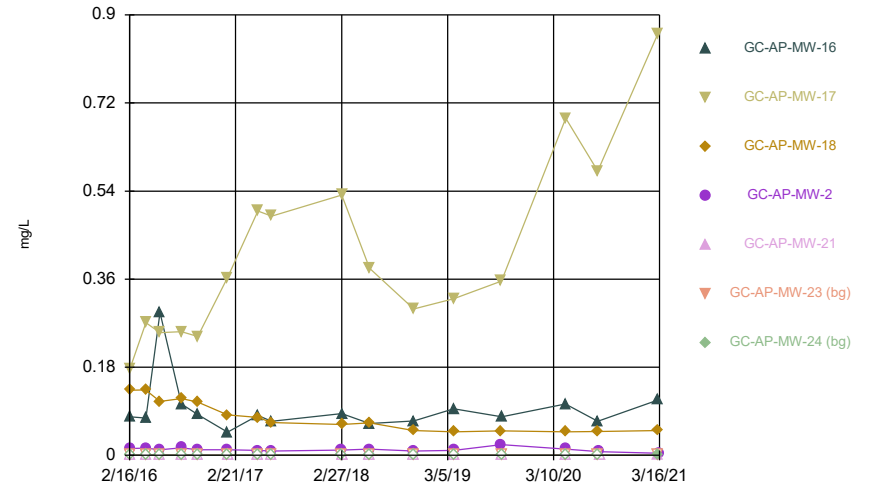
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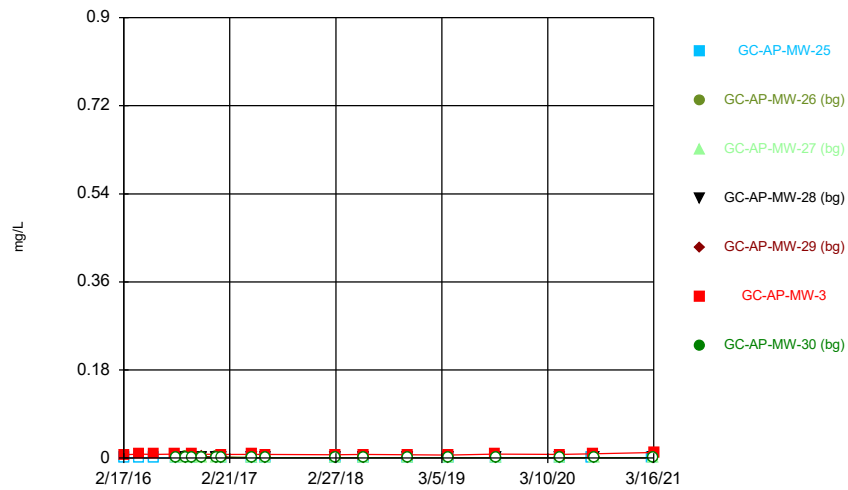
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Time Series



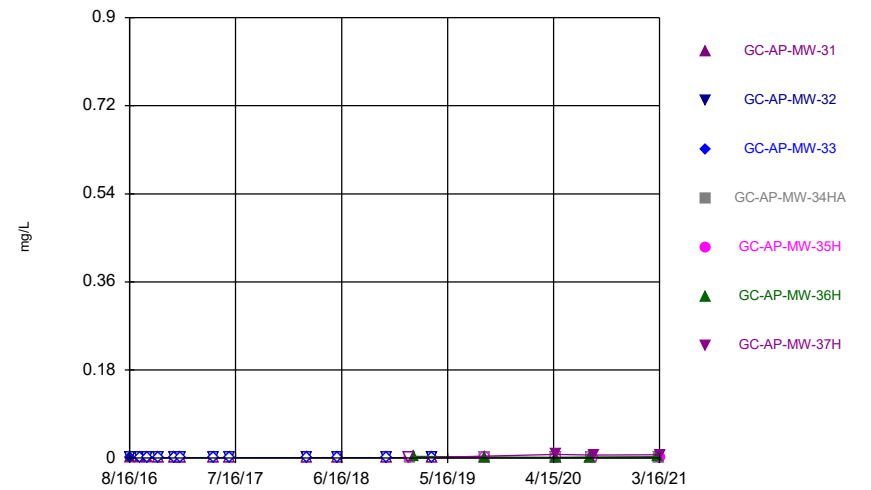
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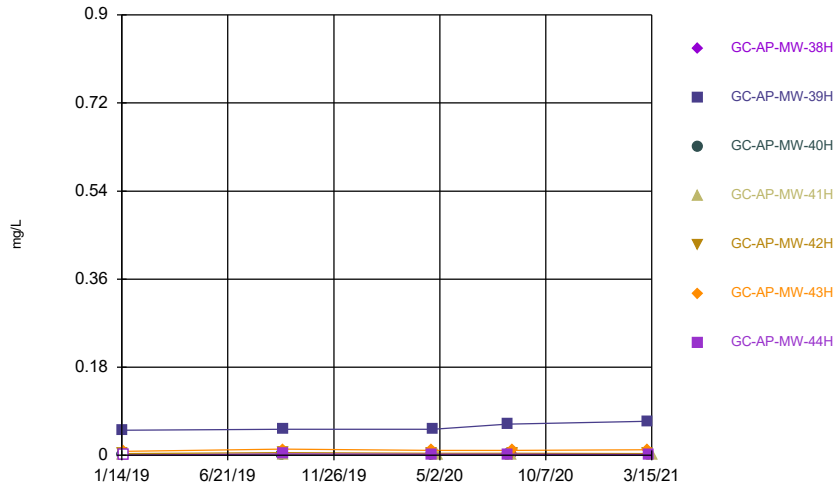
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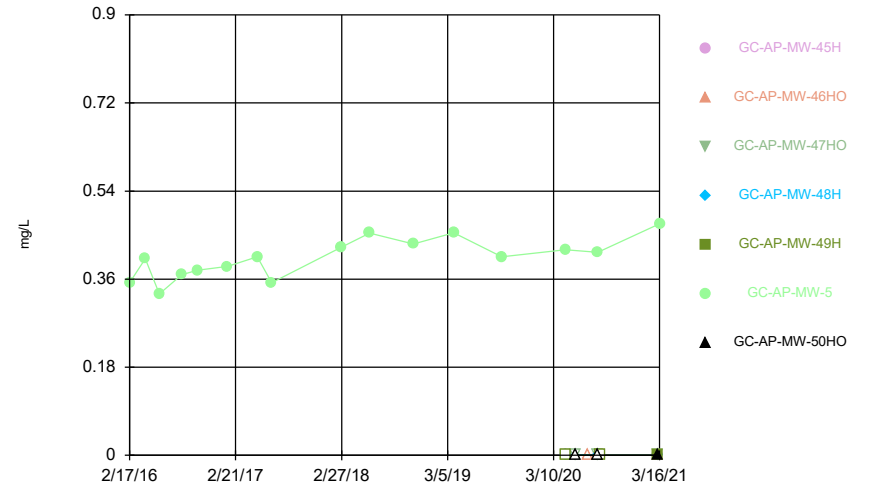
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Time Series



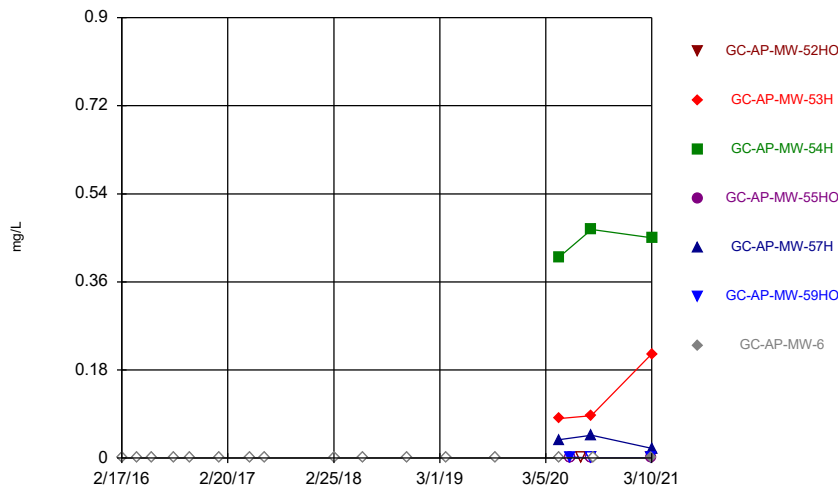
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Time Series



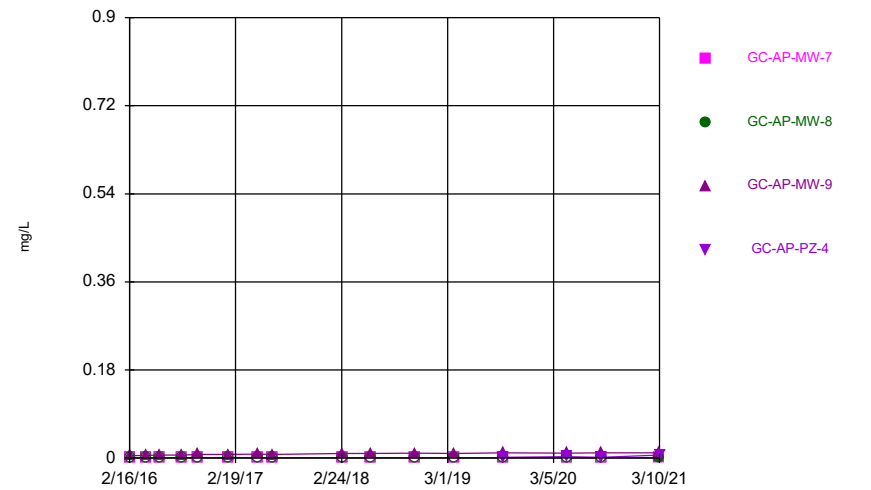
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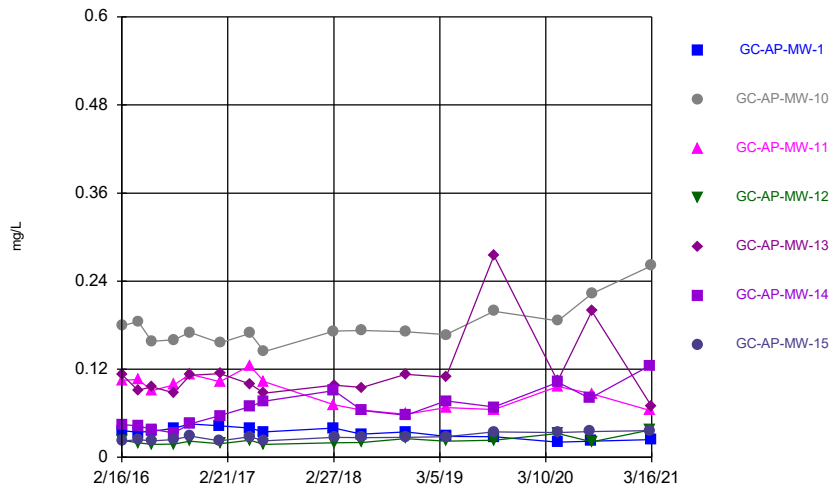
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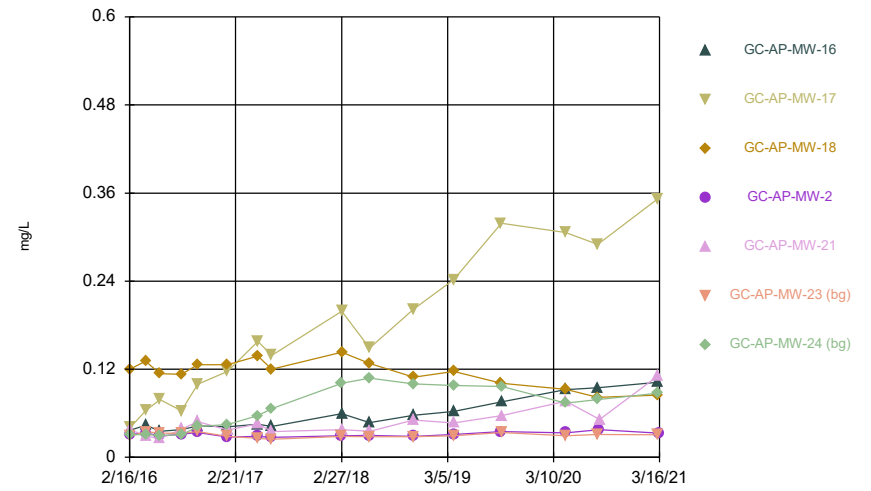
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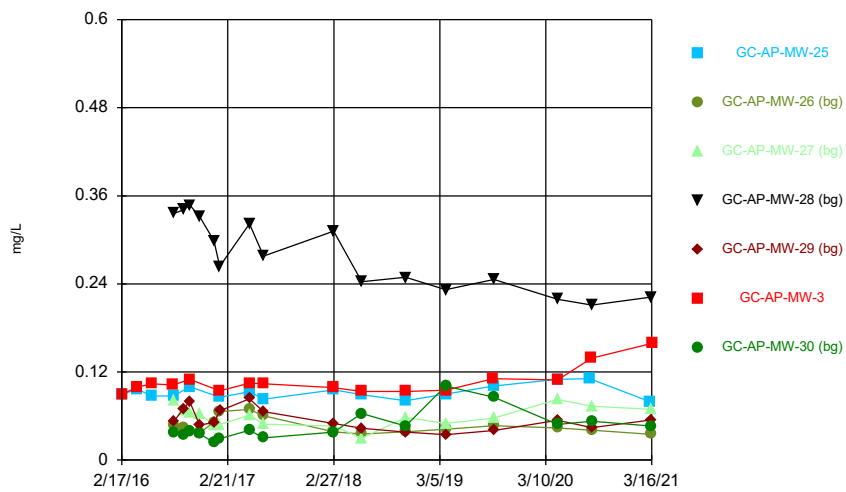
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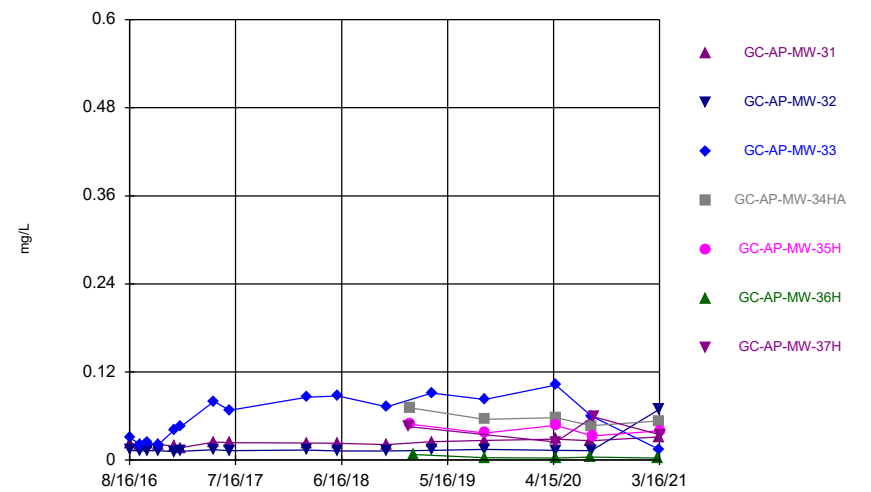
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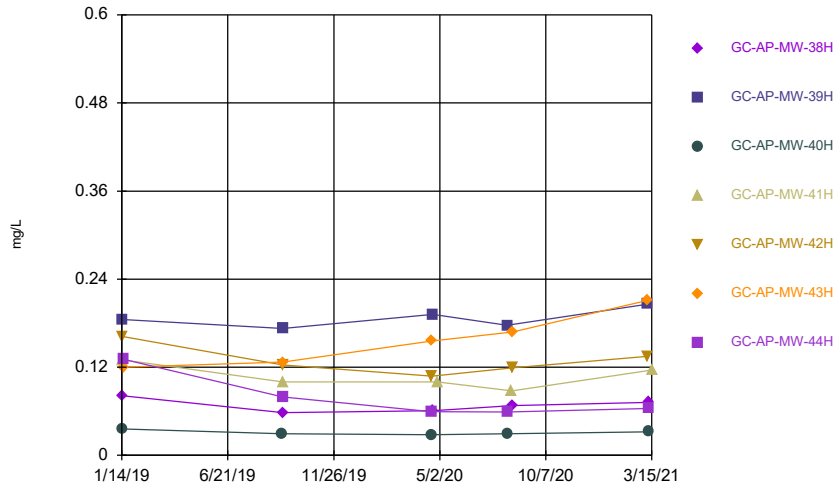
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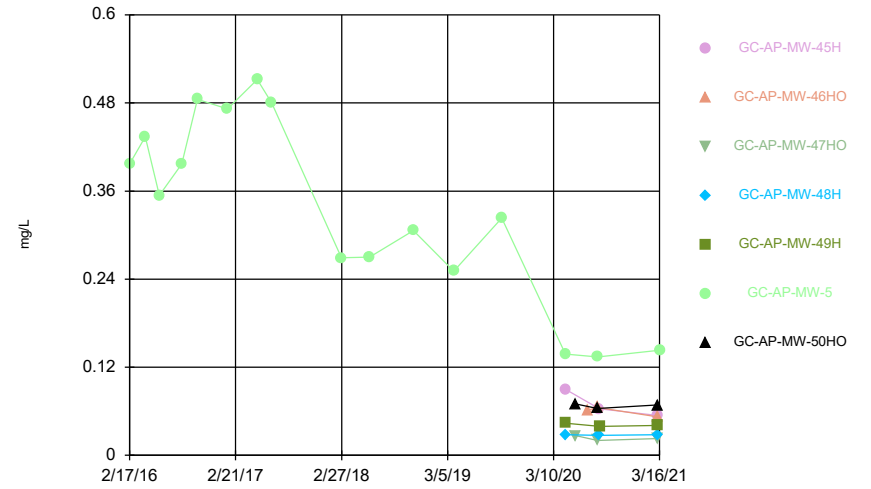
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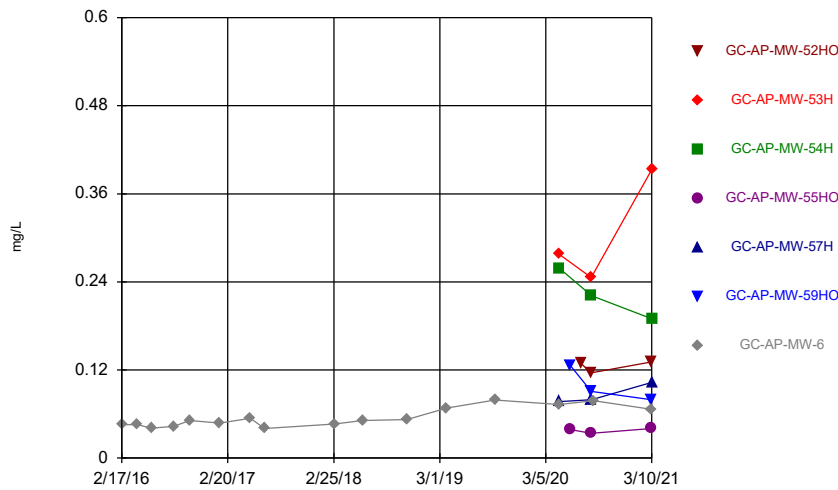
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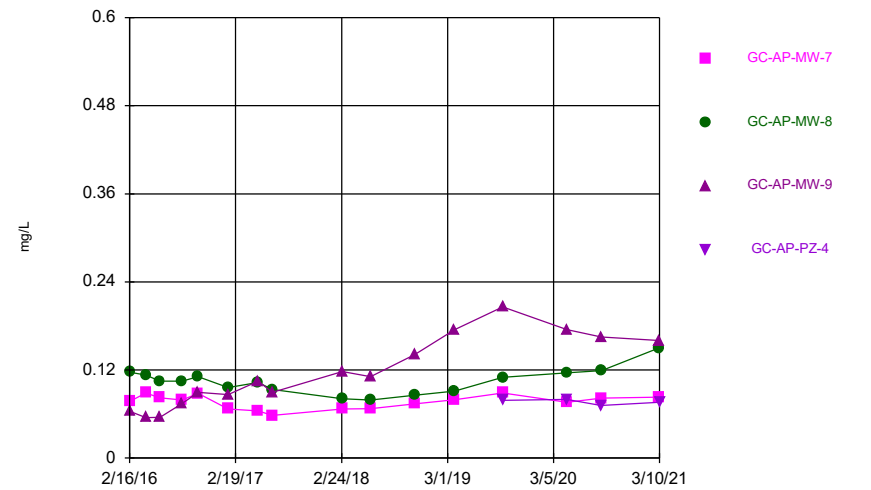
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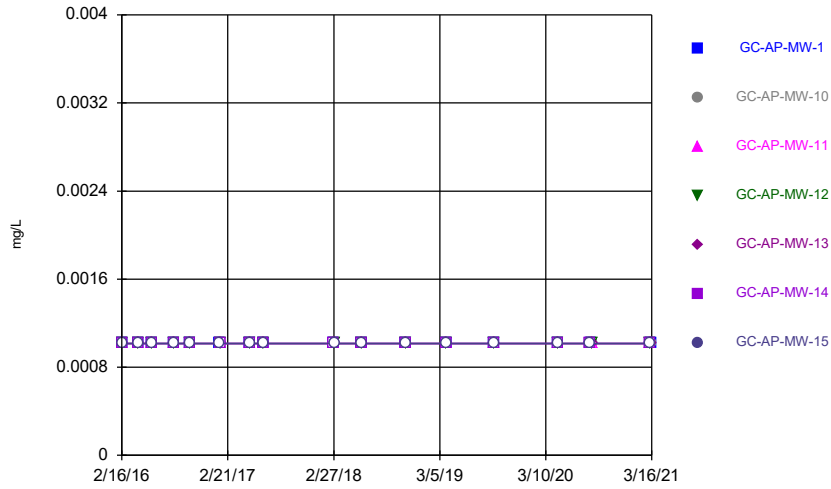
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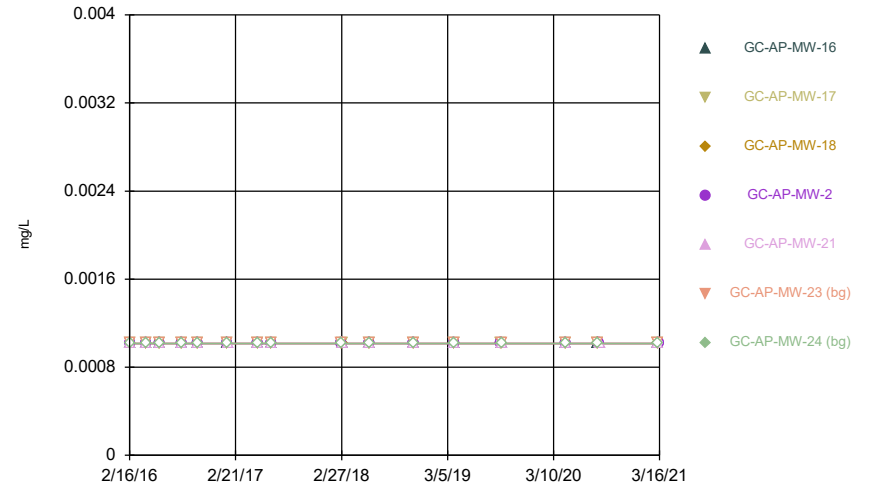
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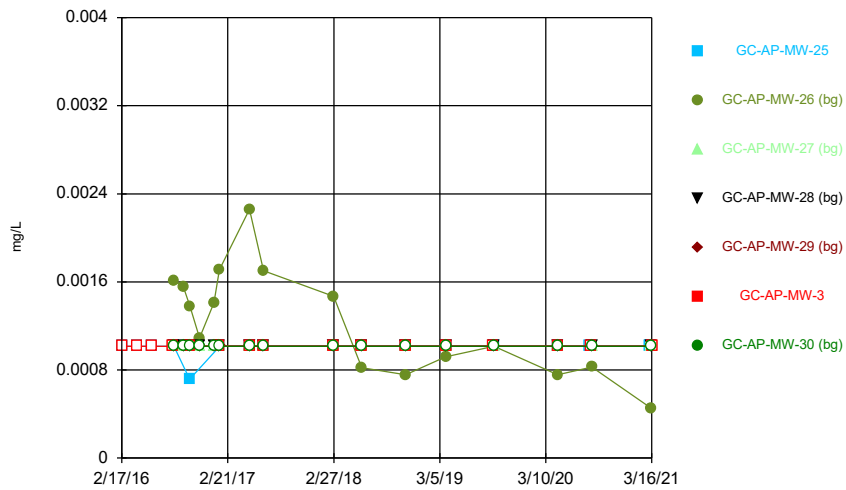
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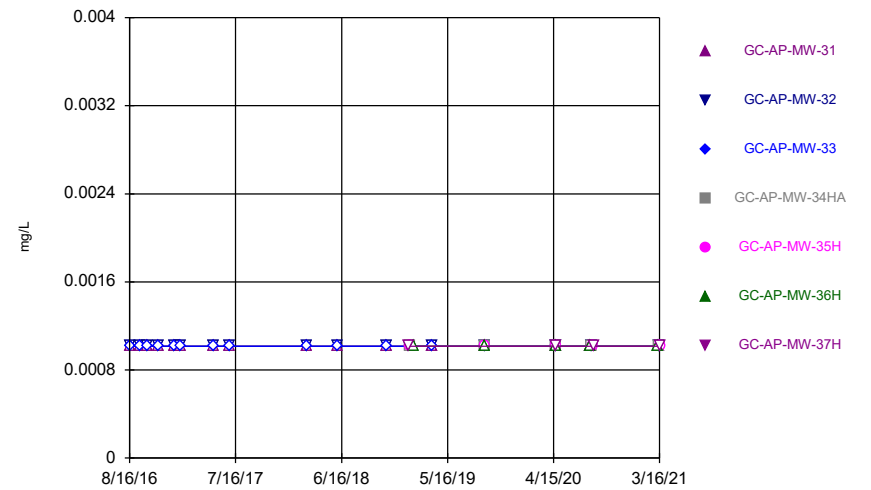
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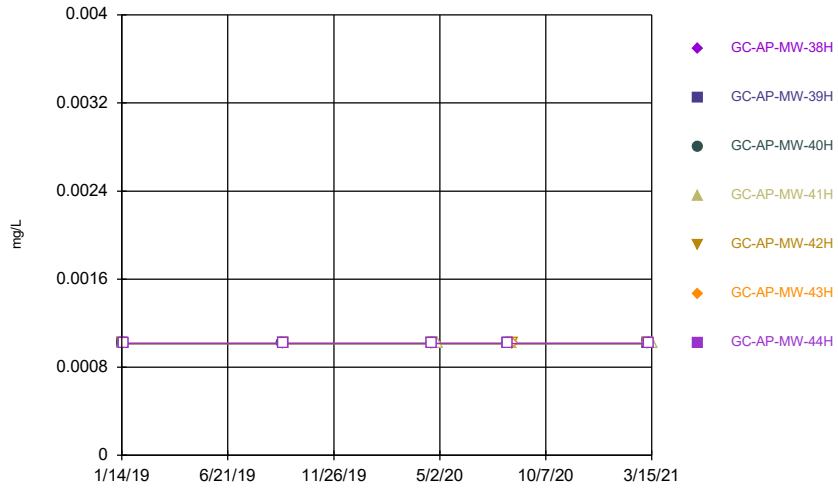
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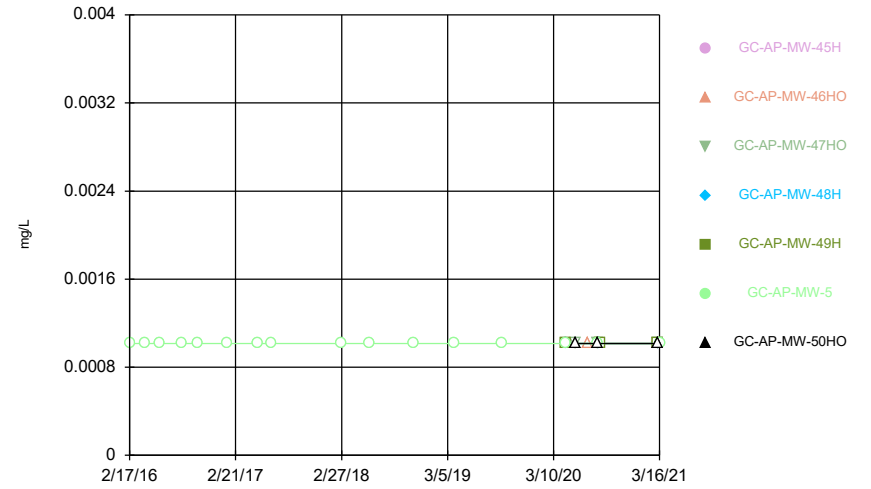
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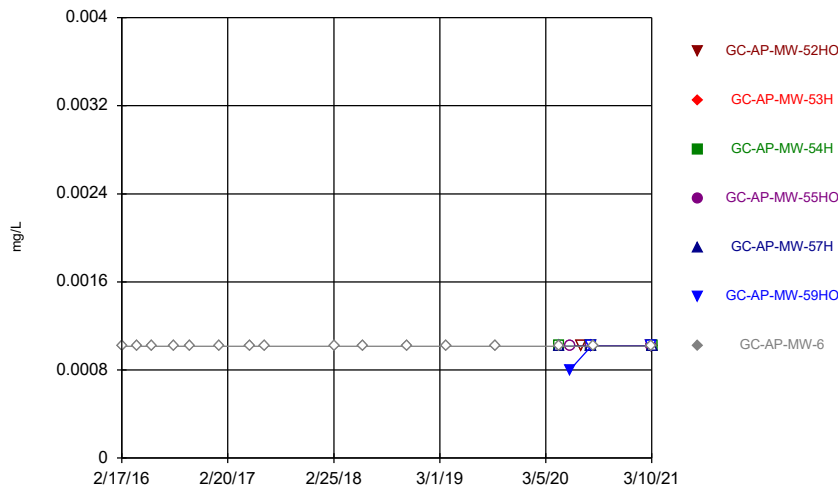
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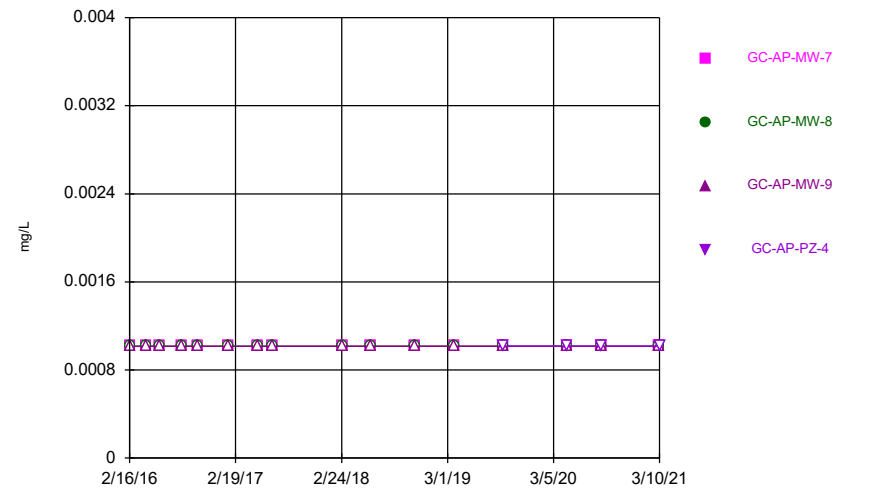
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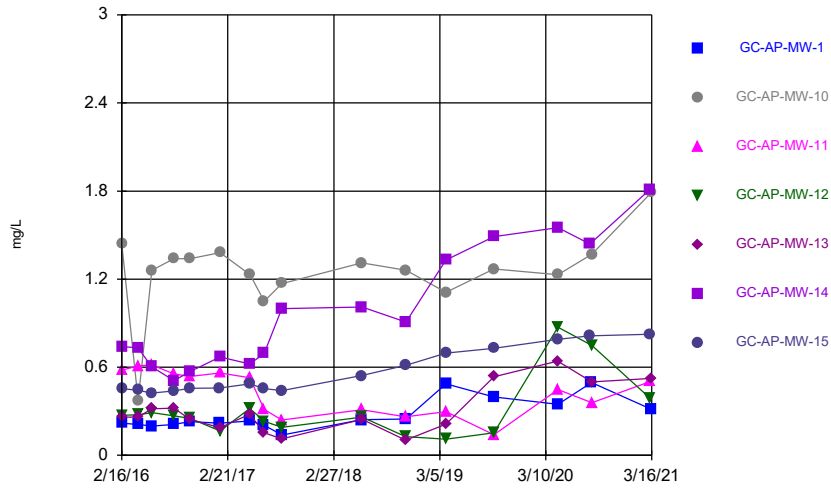
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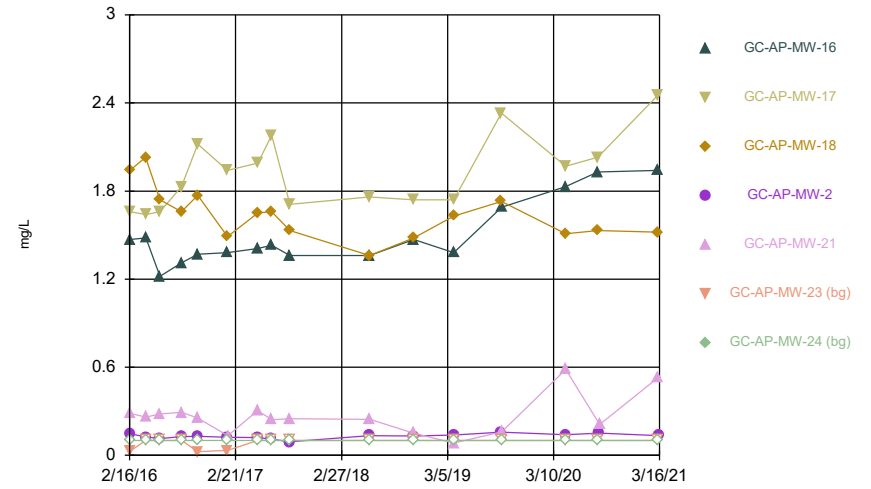
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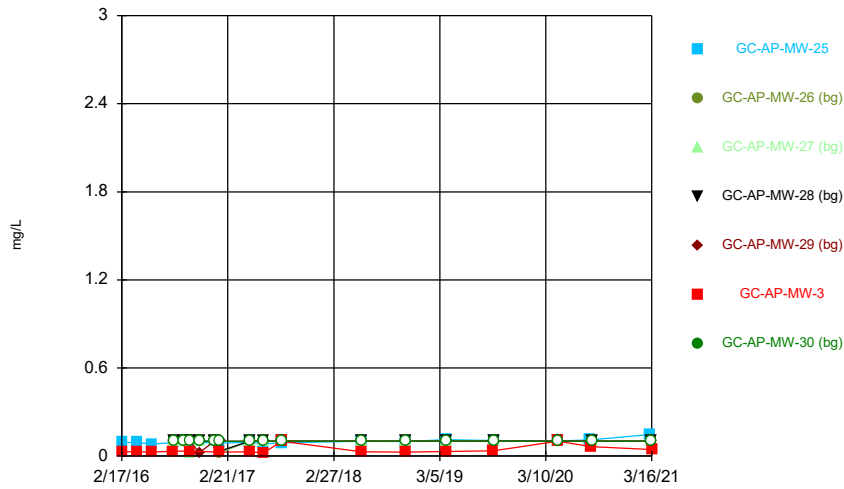
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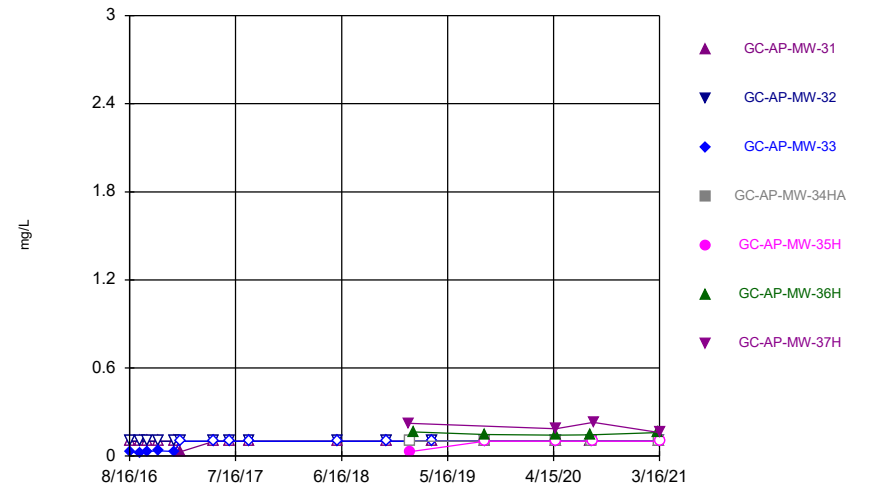
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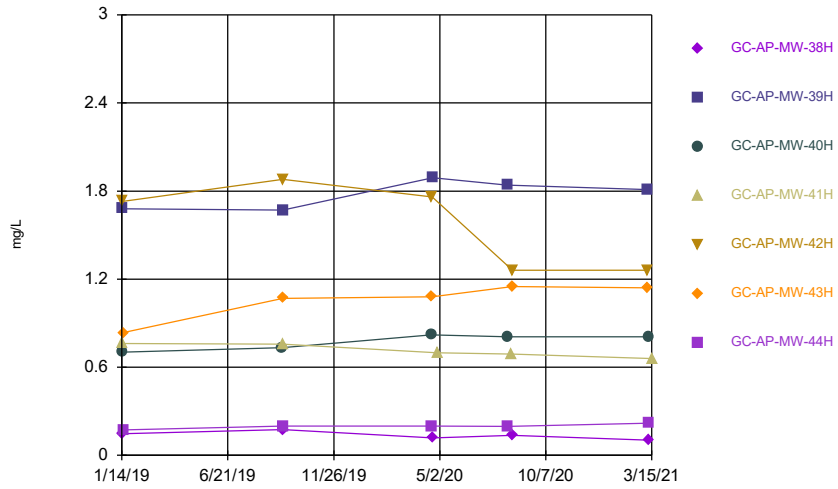
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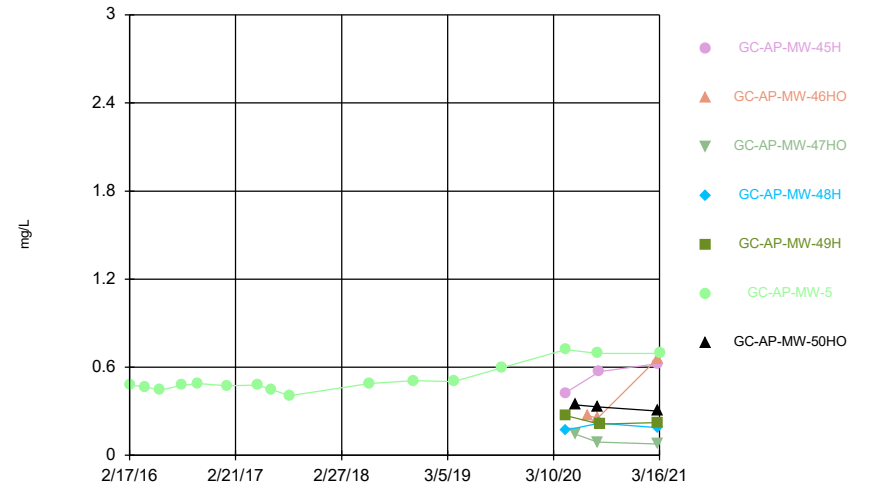
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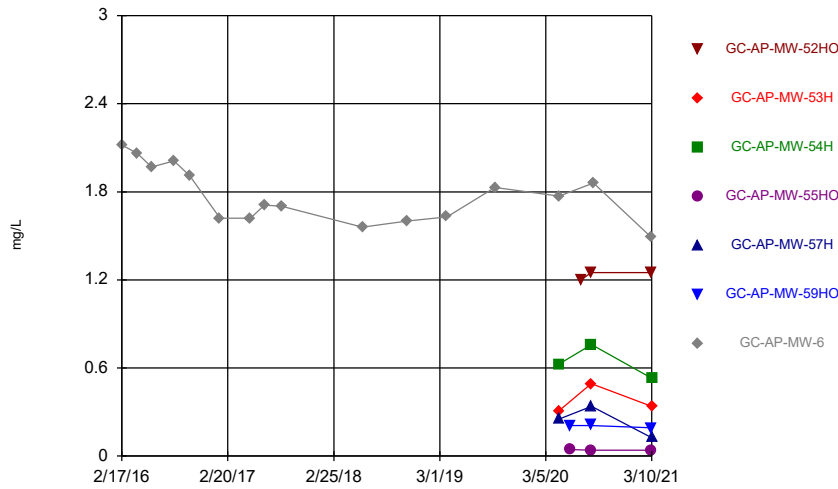
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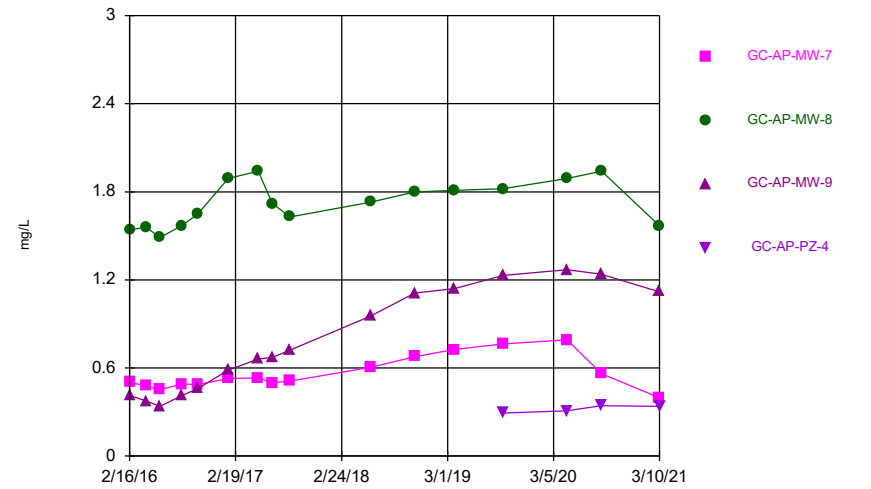
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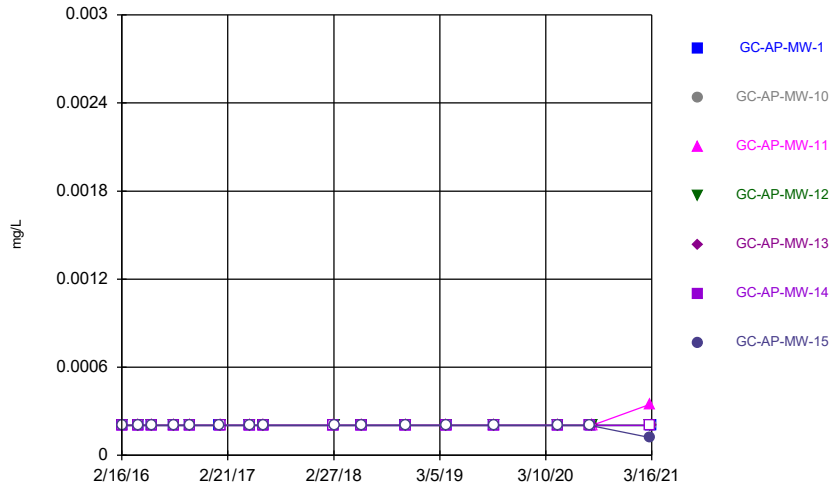
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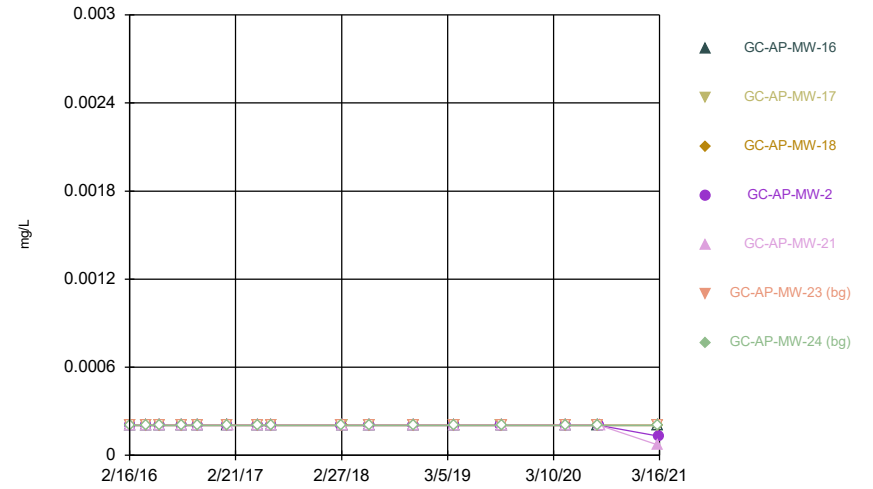
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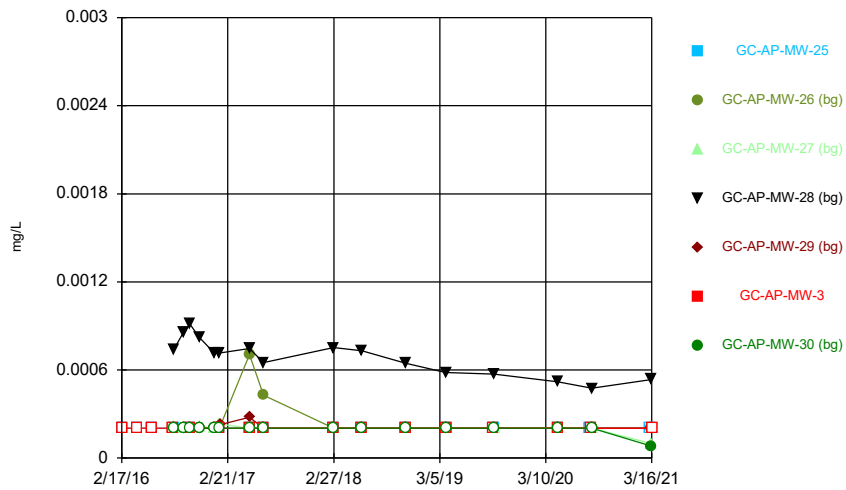
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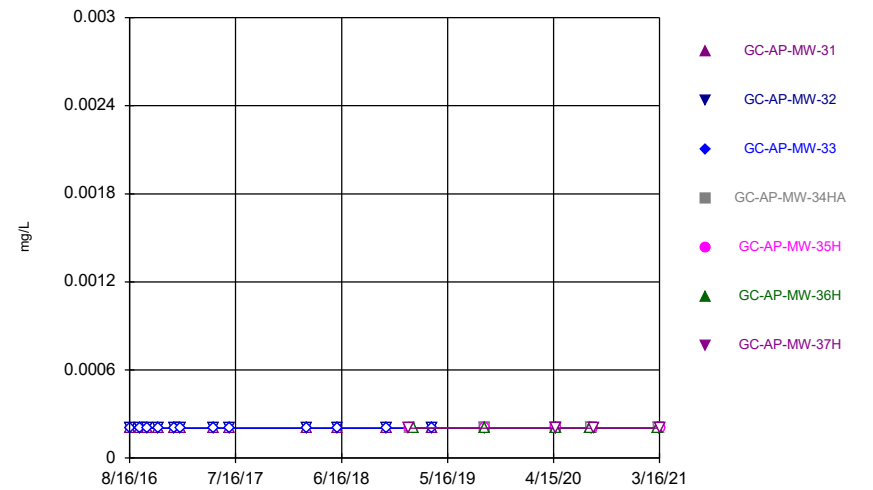
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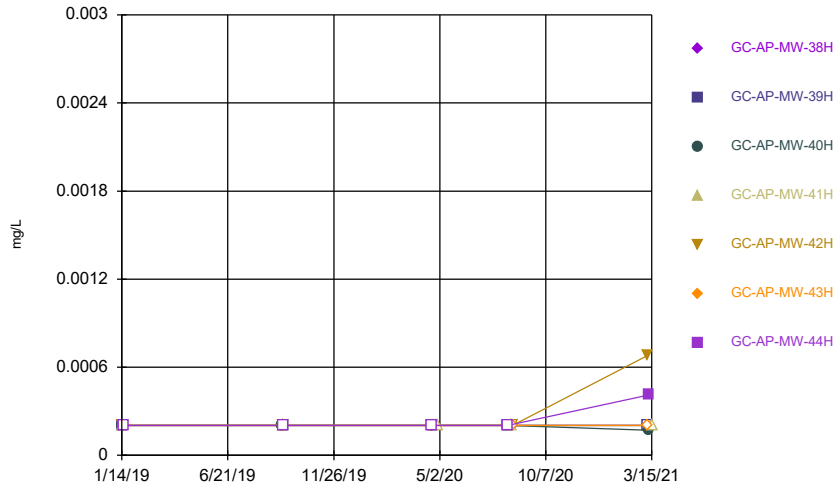
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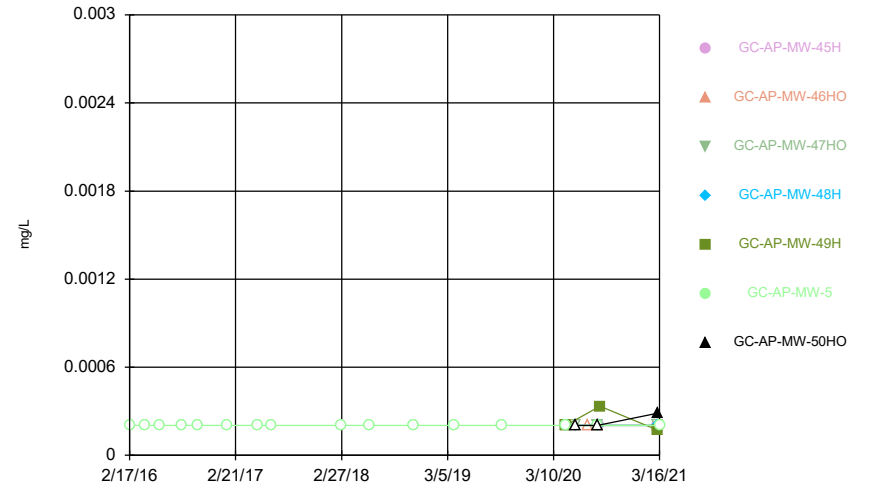
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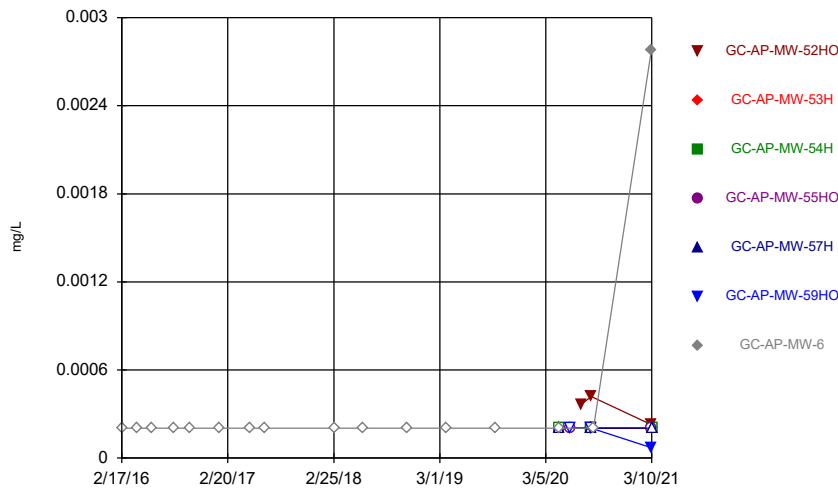
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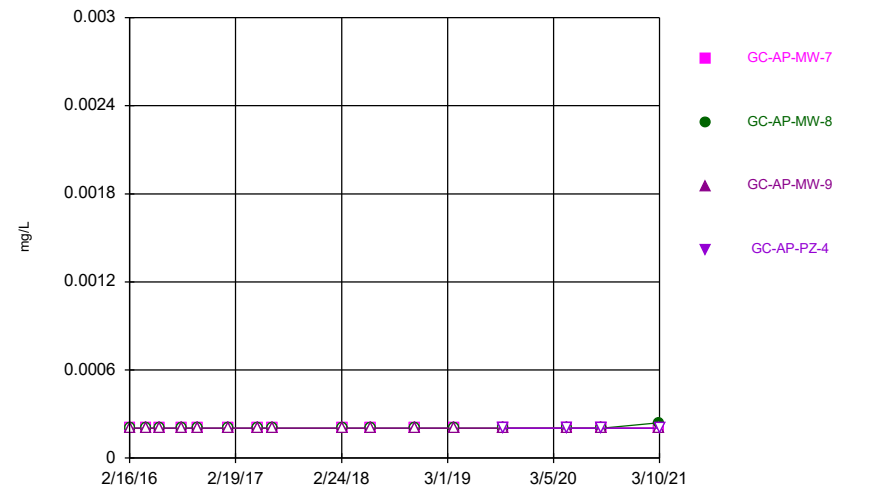
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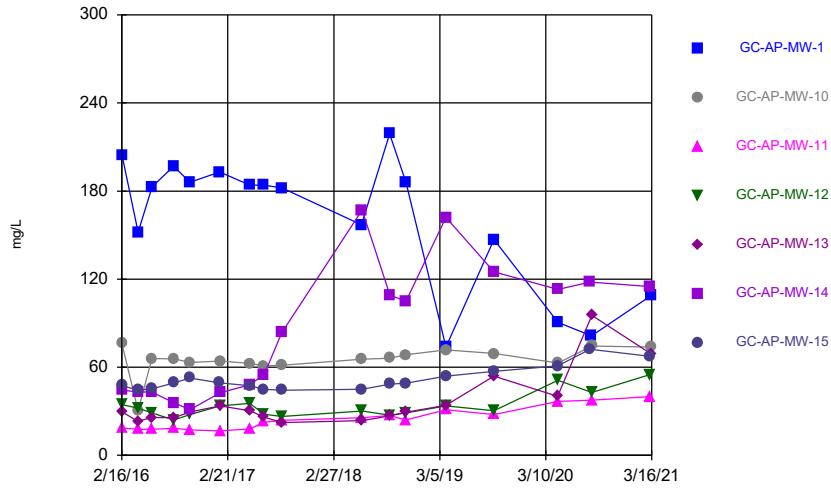
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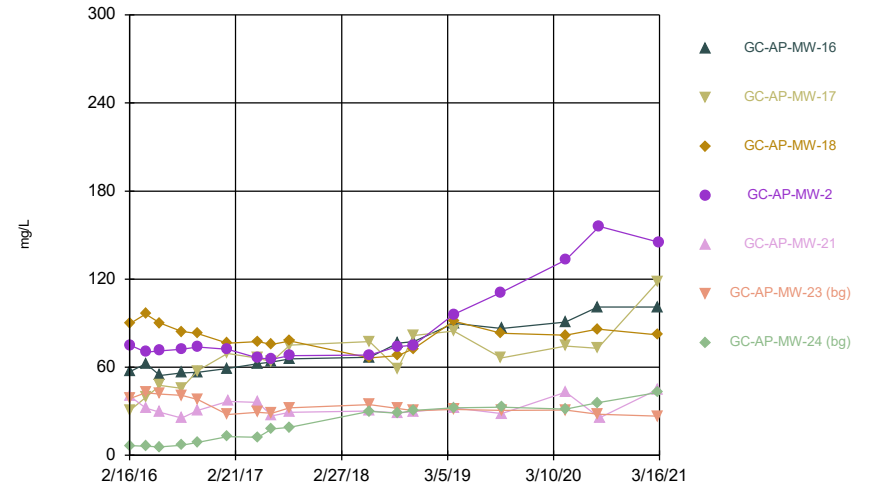
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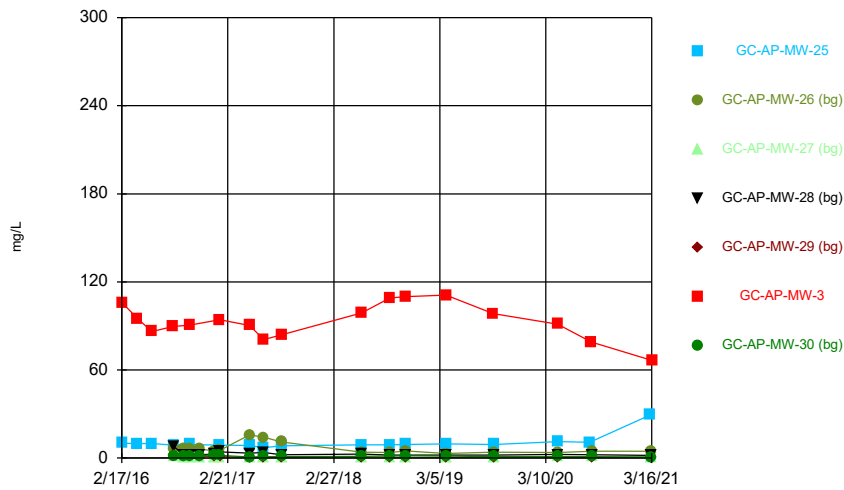
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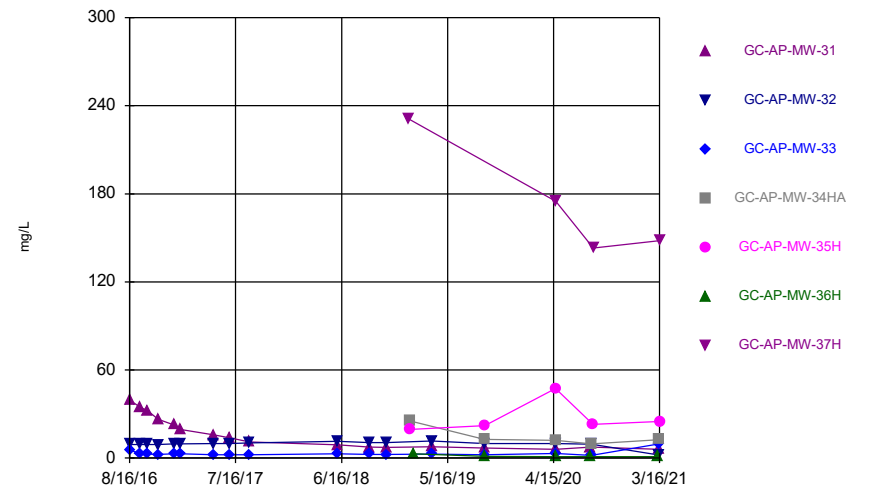
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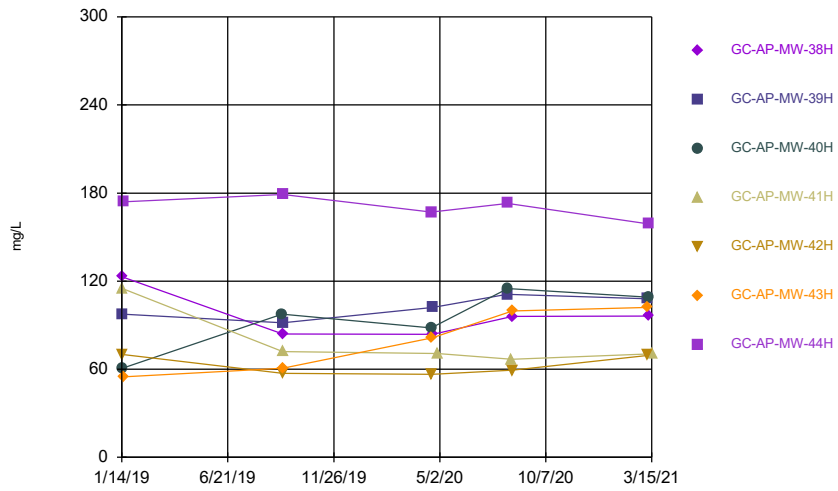
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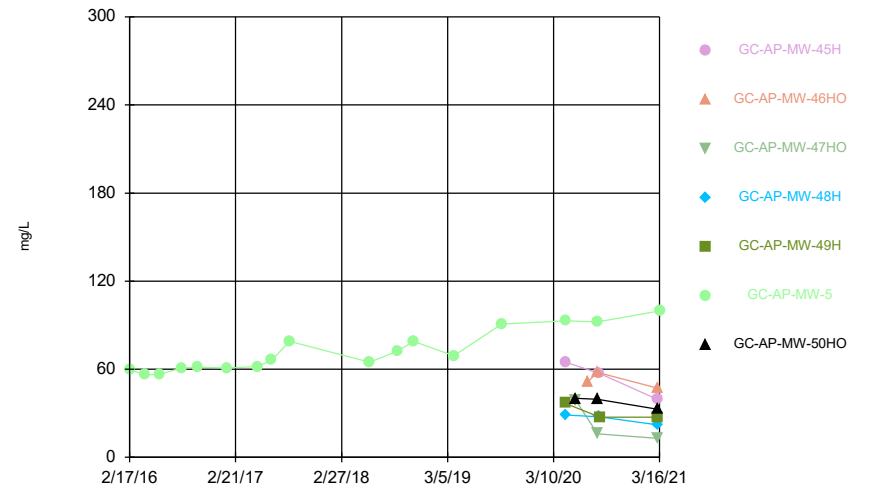
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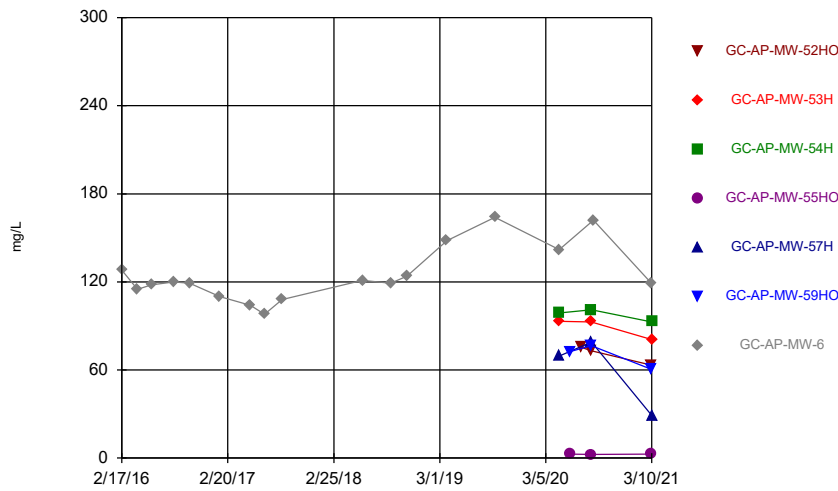
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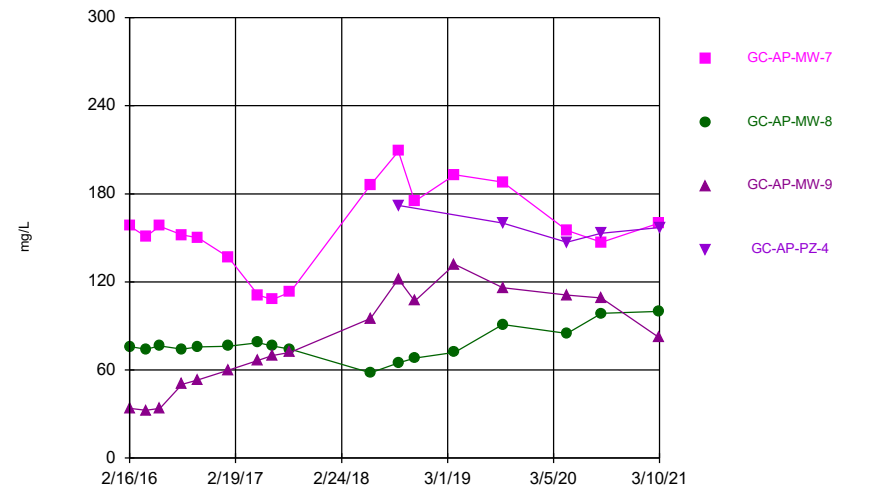
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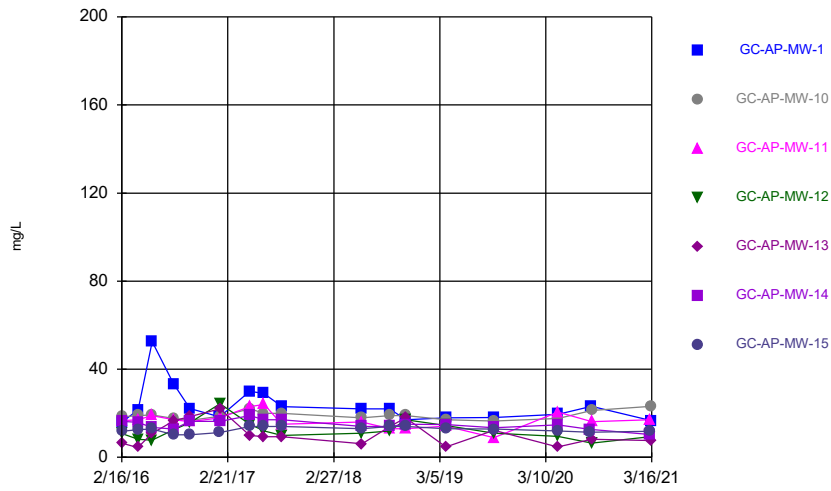
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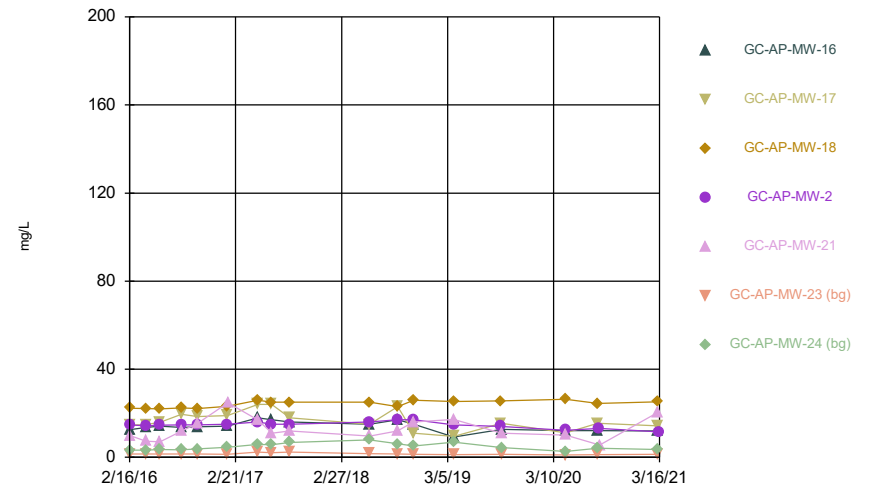
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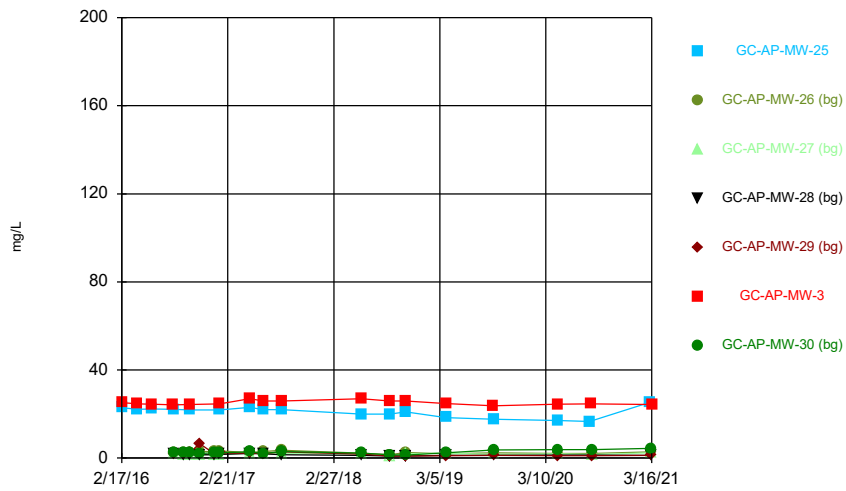
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Time Series



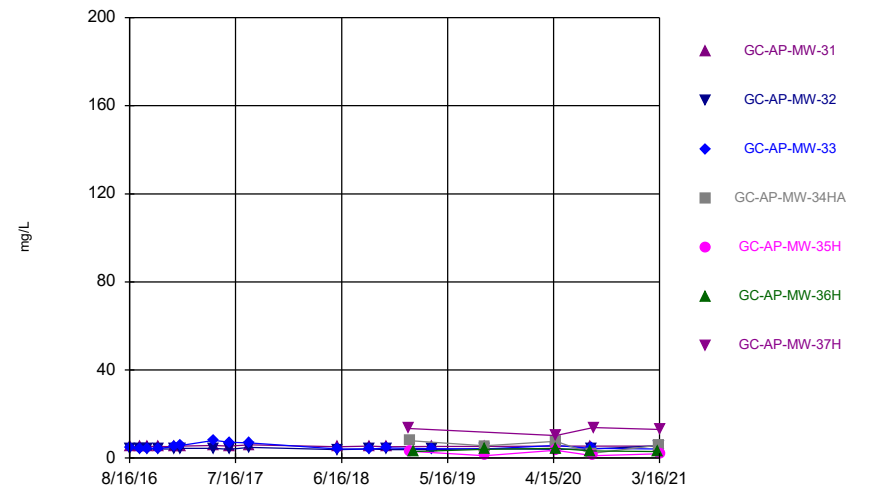
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Time Series



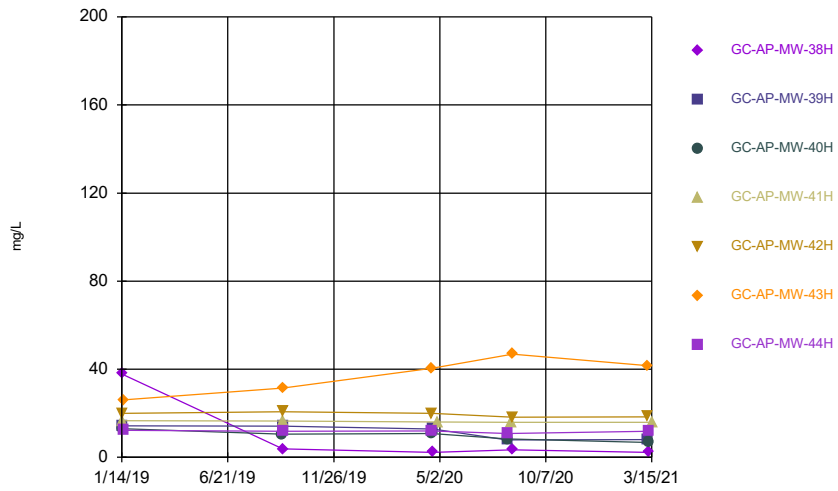
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Time Series



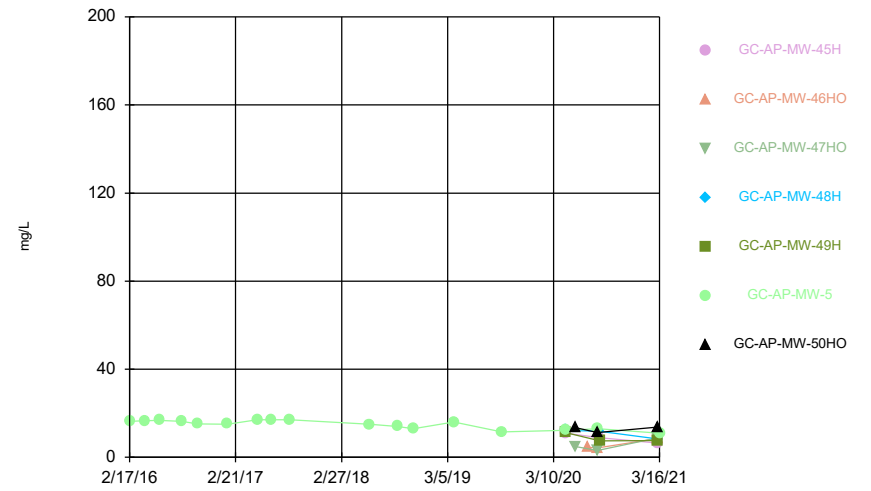
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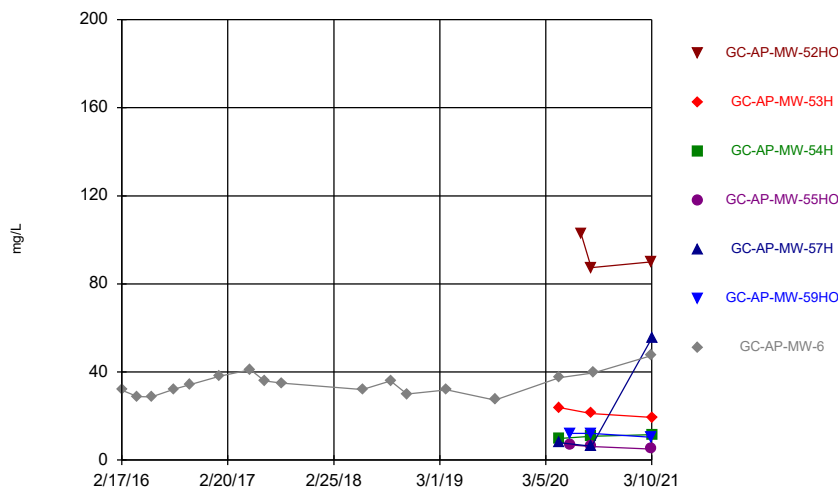
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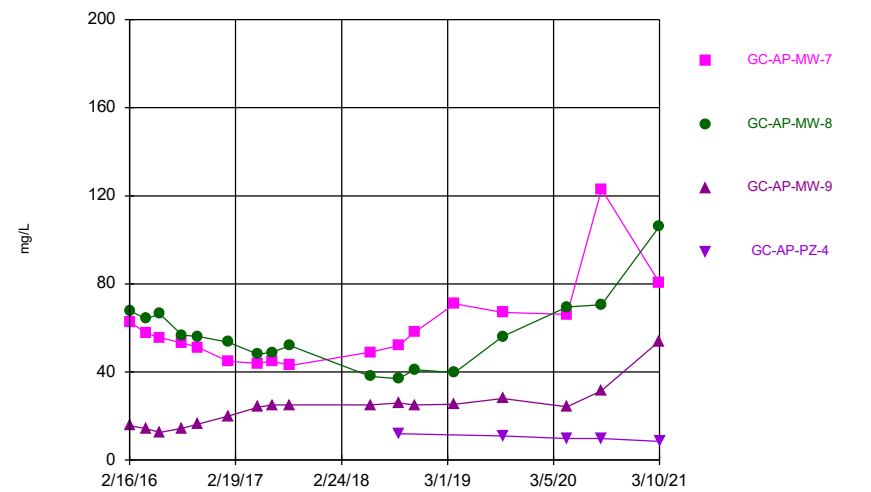
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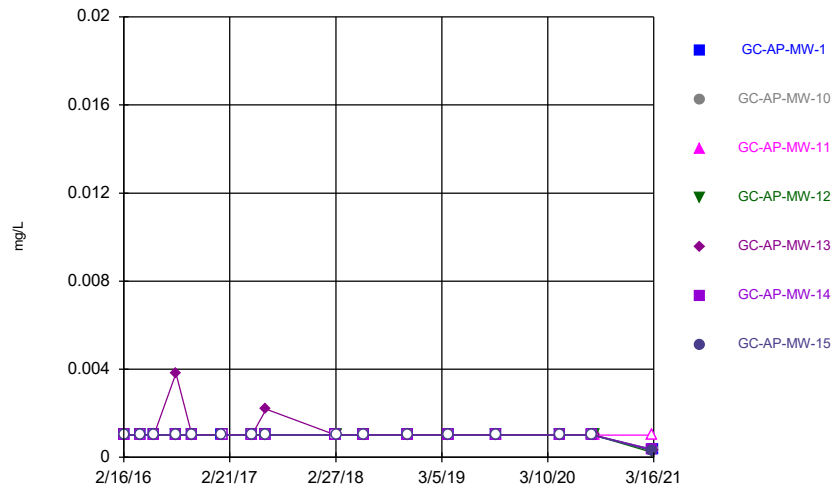
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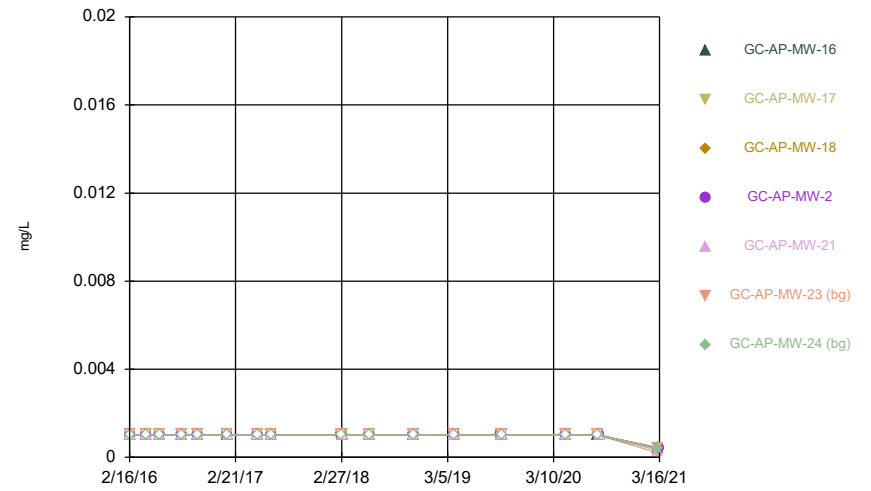
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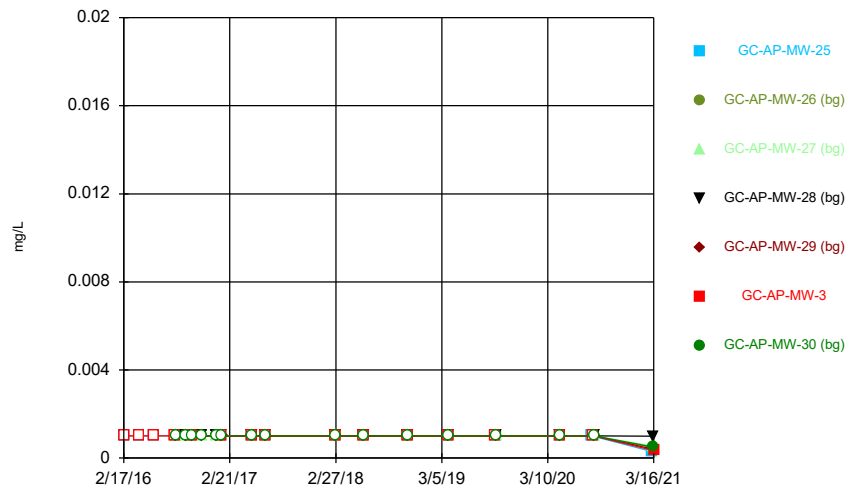
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Time Series



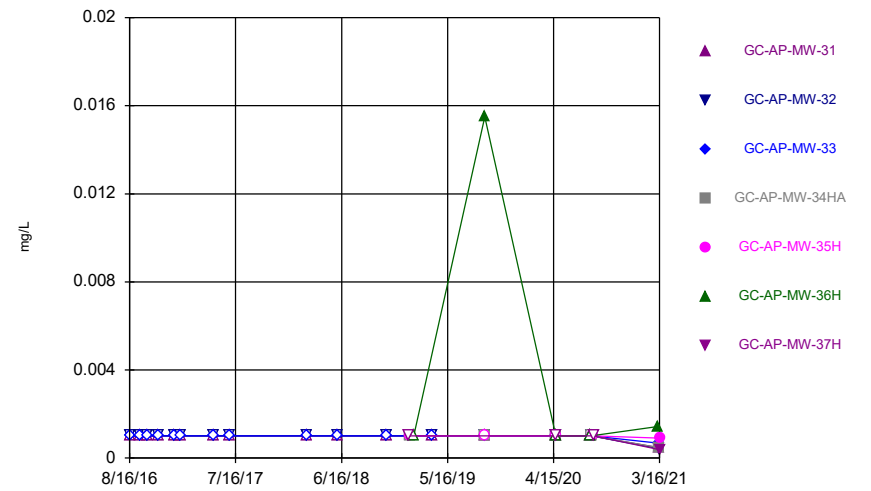
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



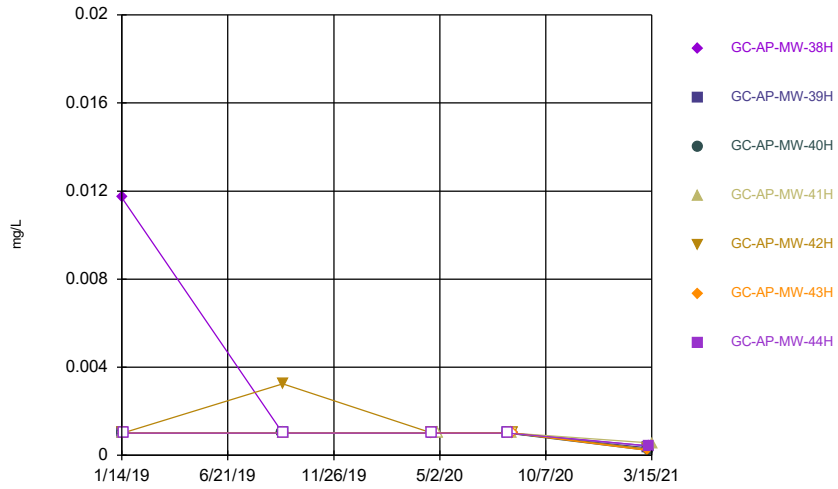
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Time Series



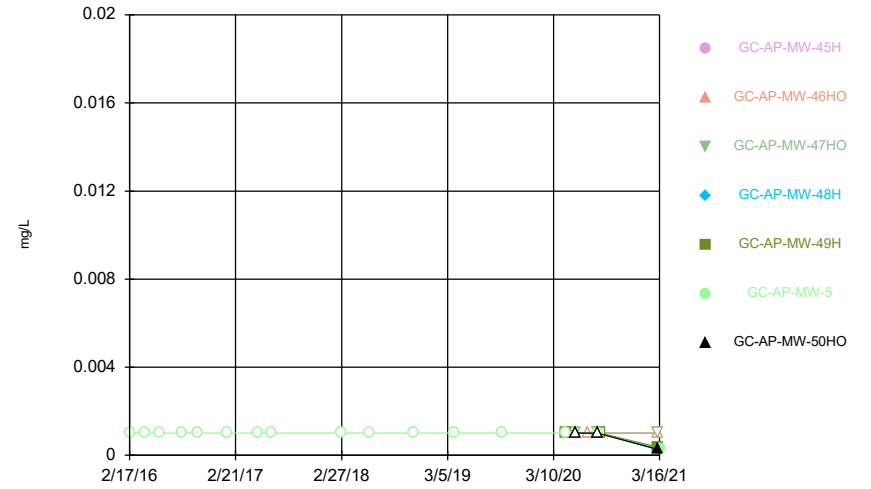
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Time Series



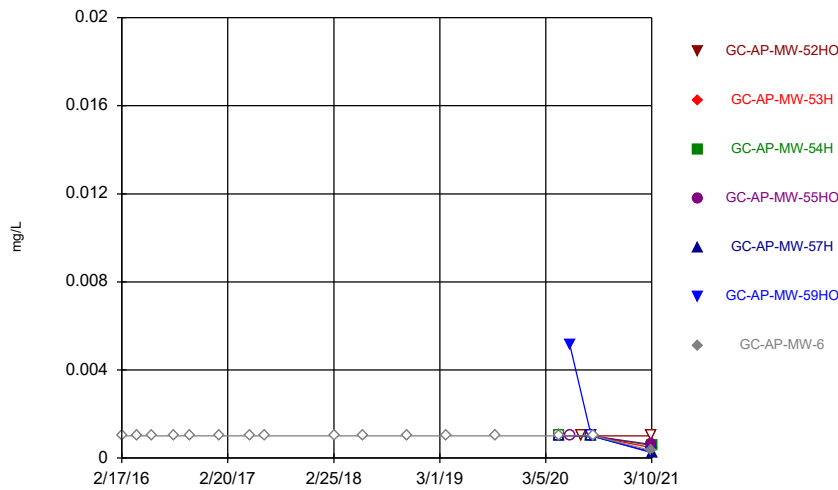
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Time Series



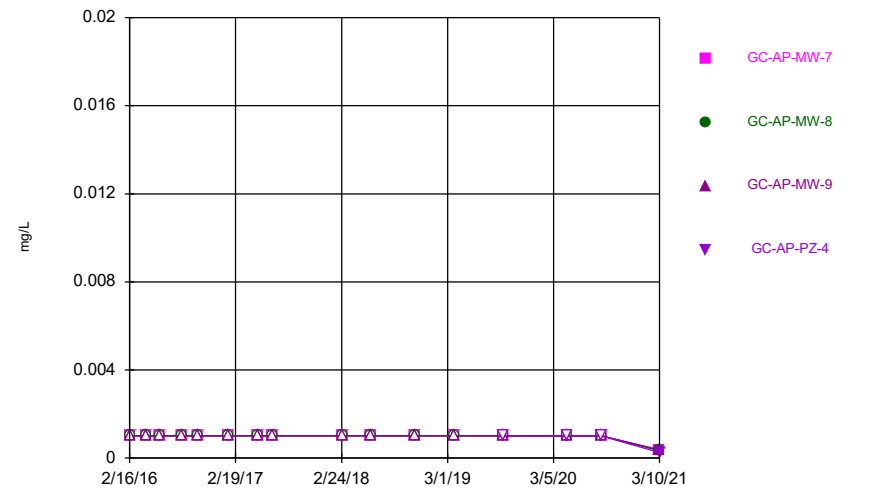
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Time Series



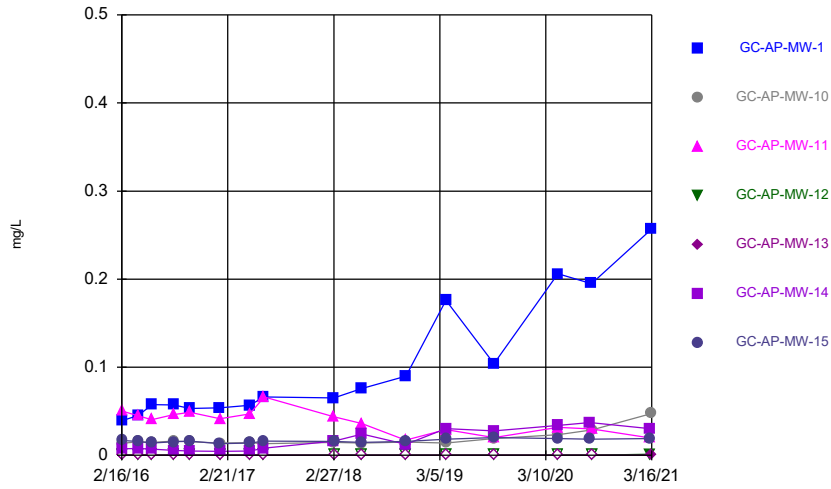
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Time Series



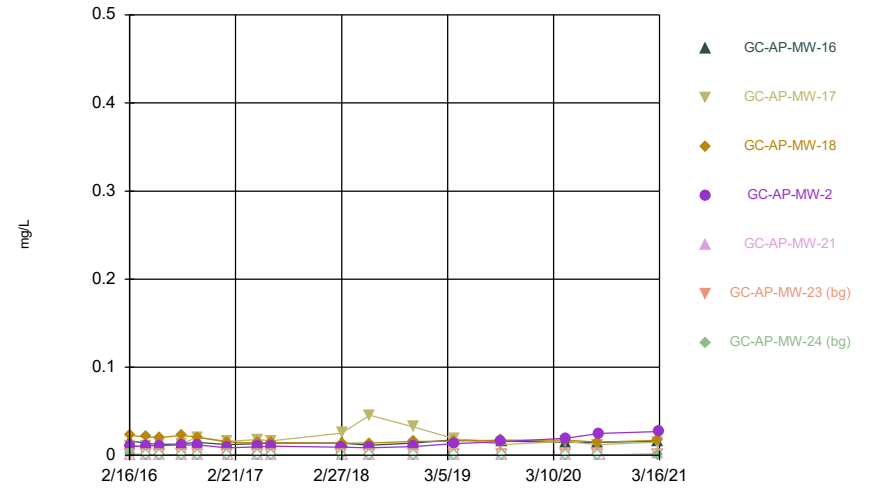
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Time Series



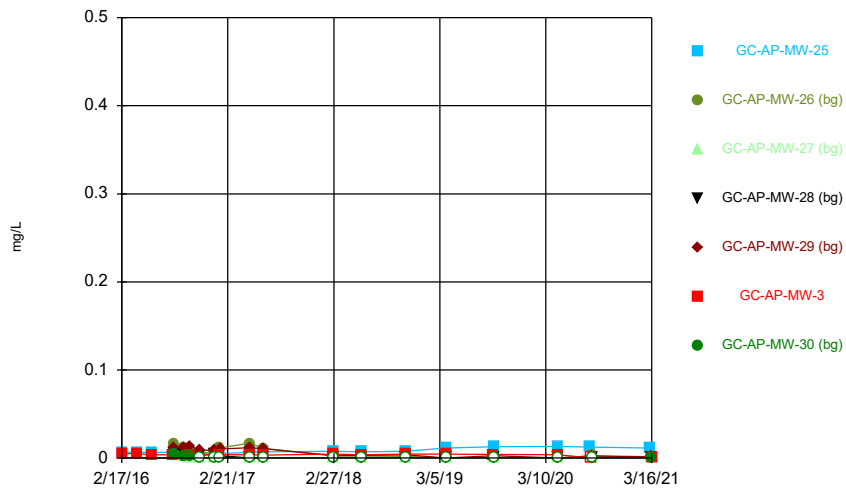
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Time Series



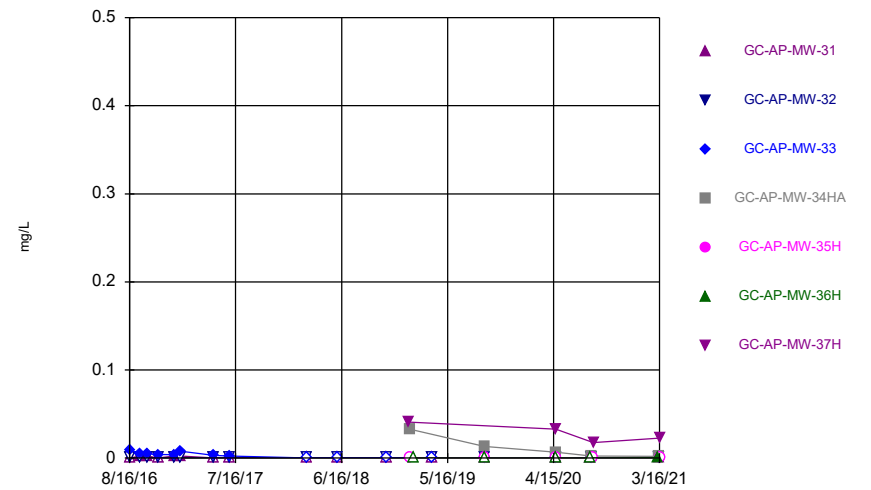
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Time Series



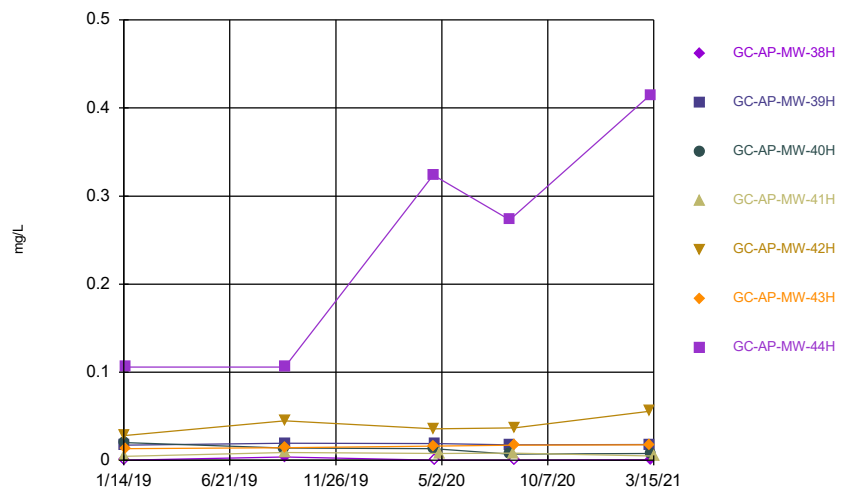
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Time Series



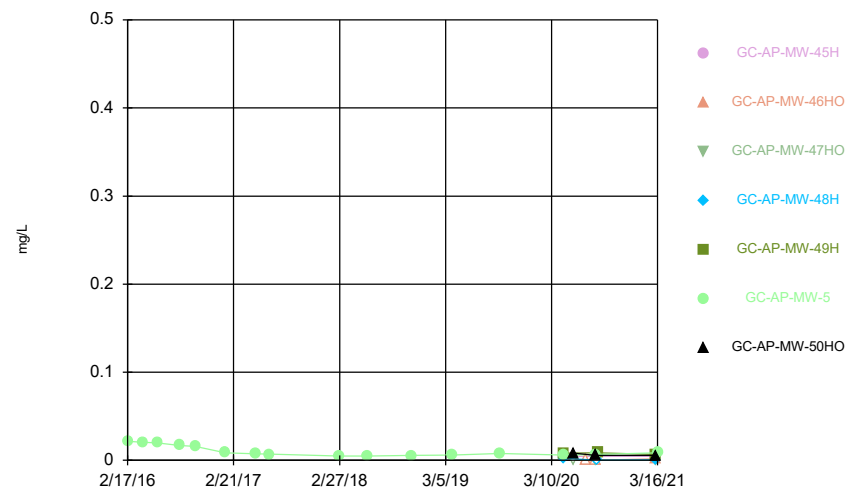
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Time Series



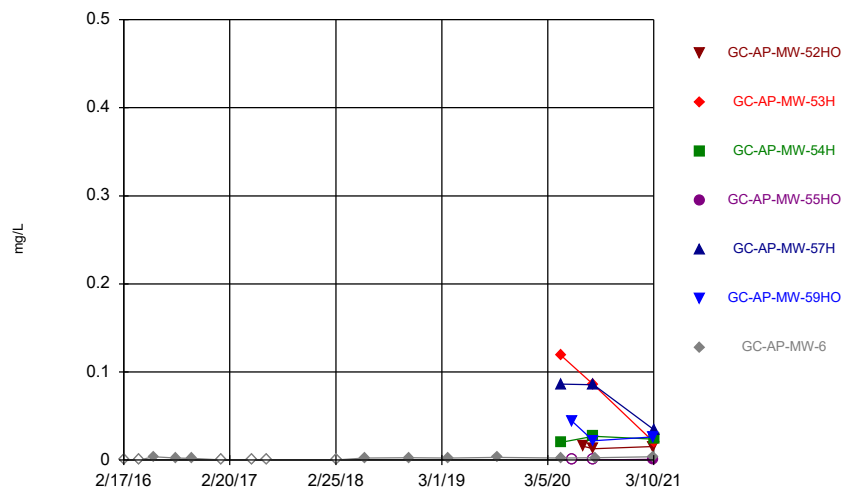
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Time Series



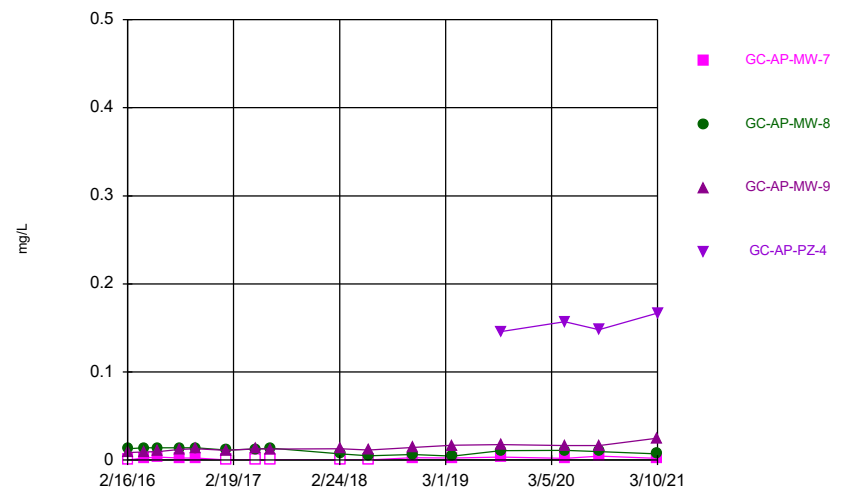
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Time Series



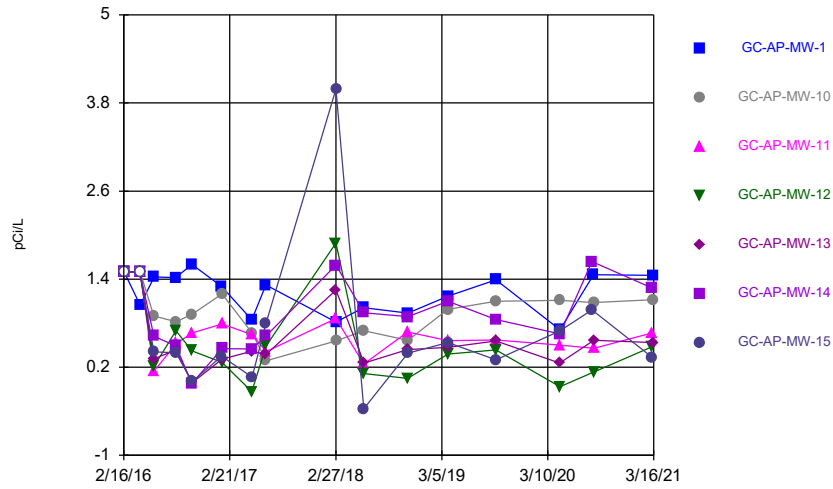
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Time Series



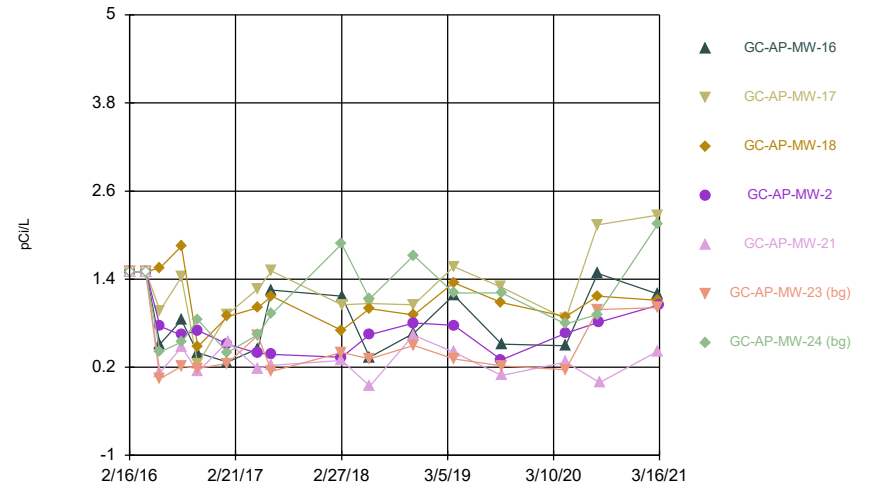
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Time Series



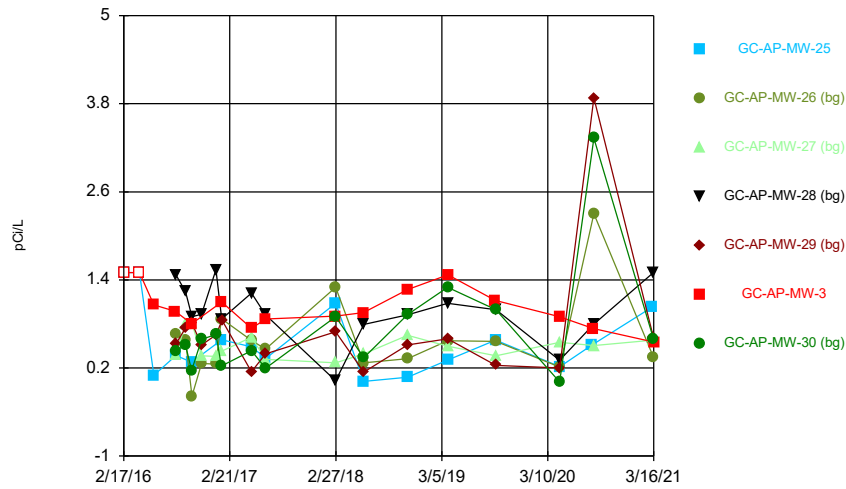
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Time Series



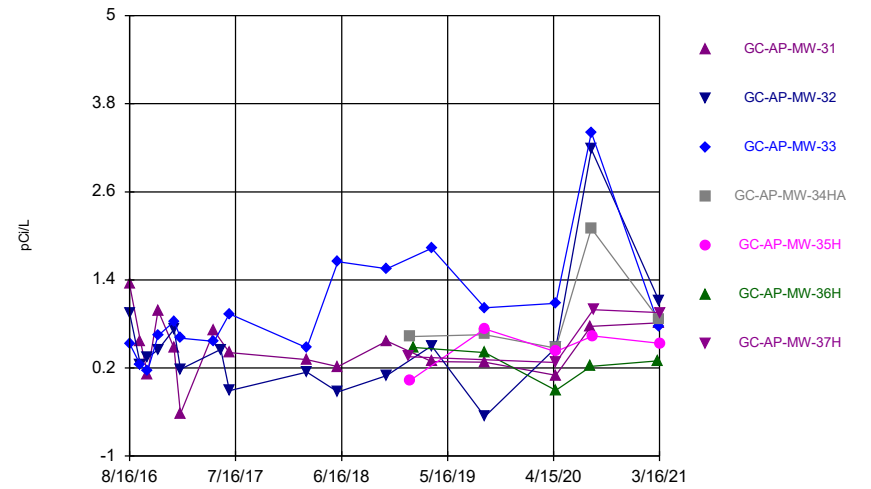
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Time Series



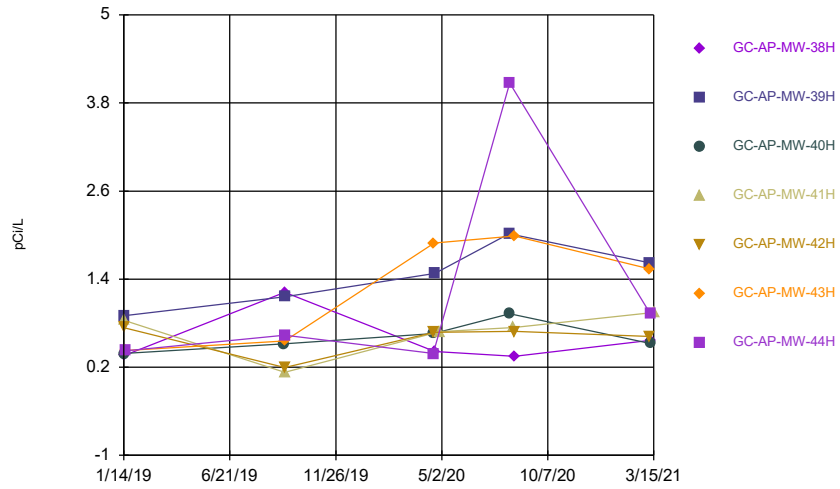
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2021 5:01 PM View: Descriptive
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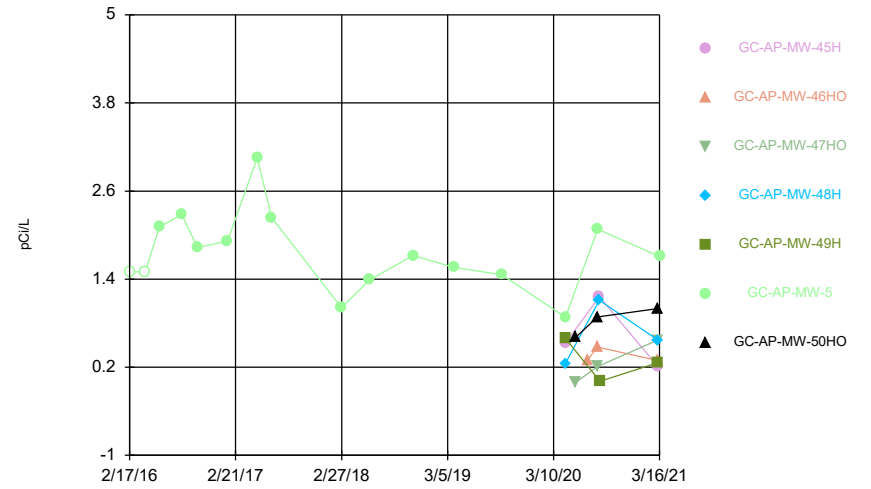
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2021 5:01 PM View: Descriptive
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Hollow symbols indicate censored values.

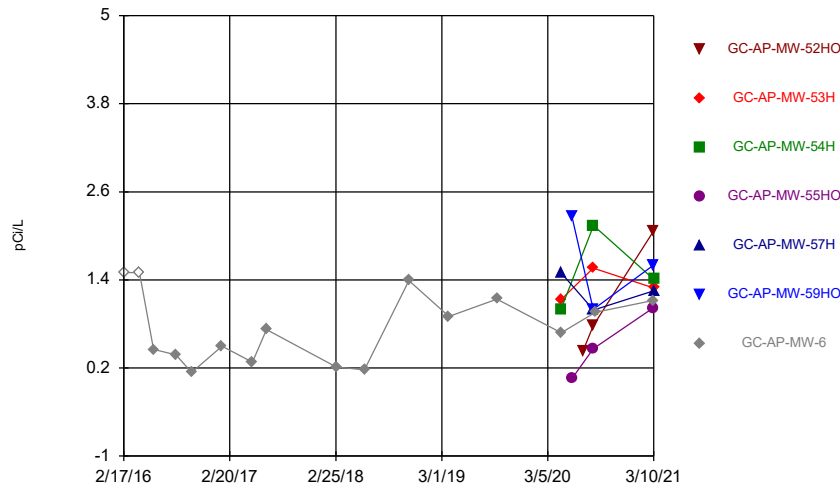
Time Series



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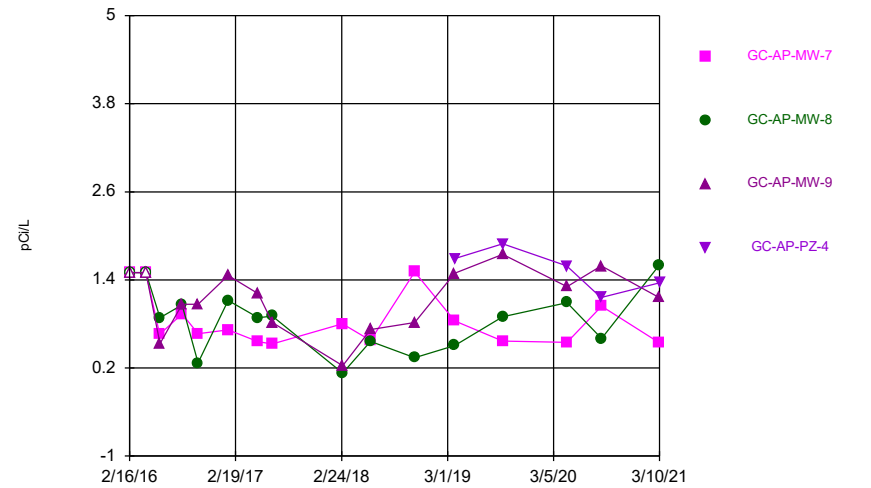
Time Series



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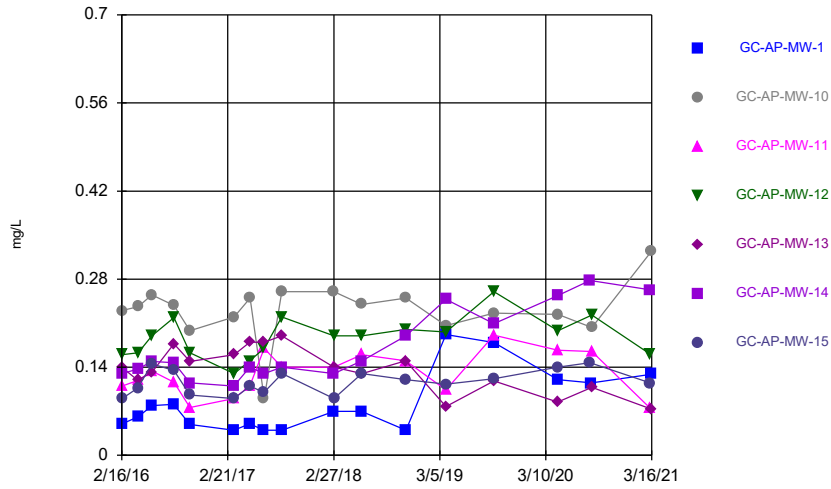
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Time Series



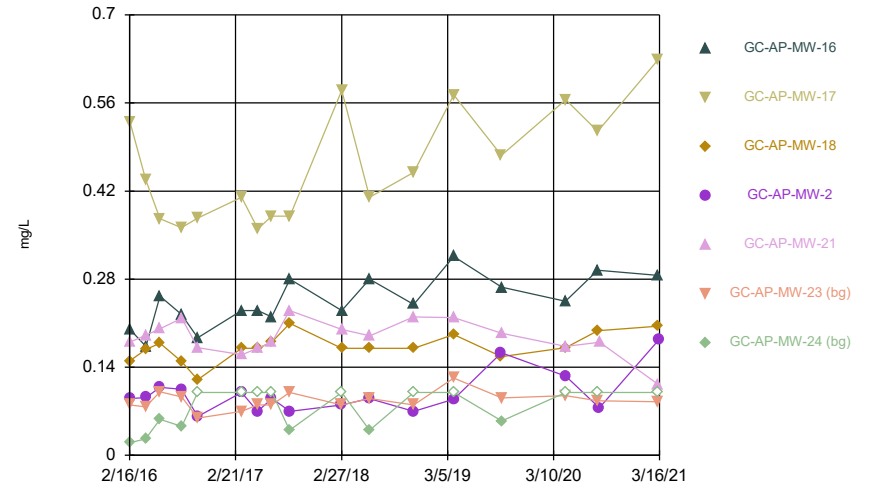
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Time Series



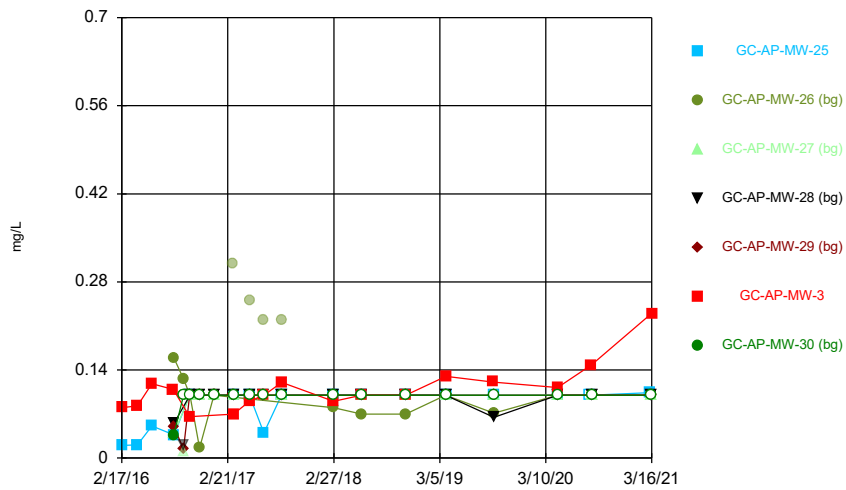
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



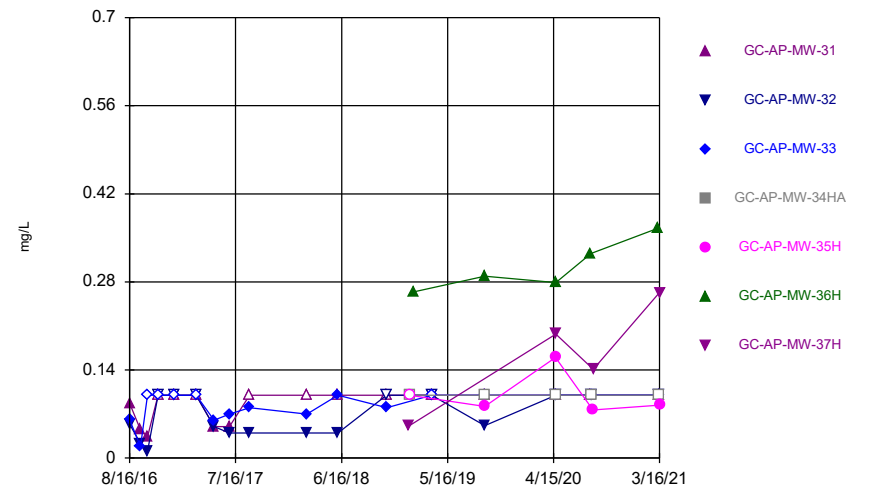
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Time Series



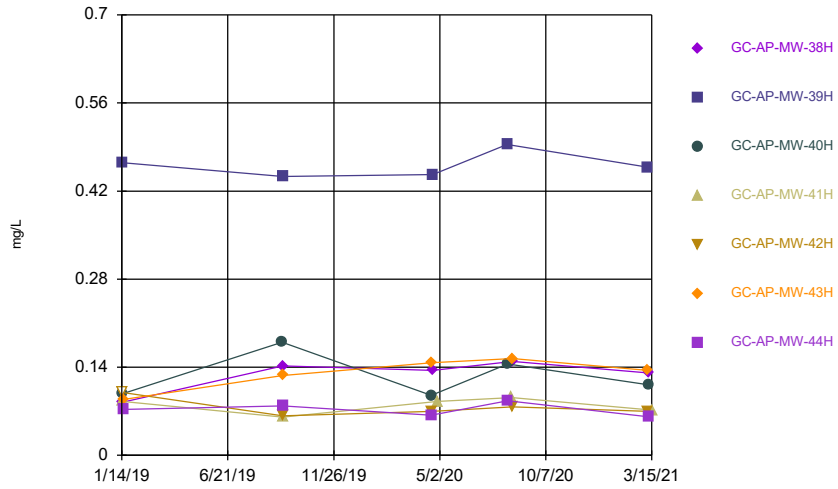
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Time Series



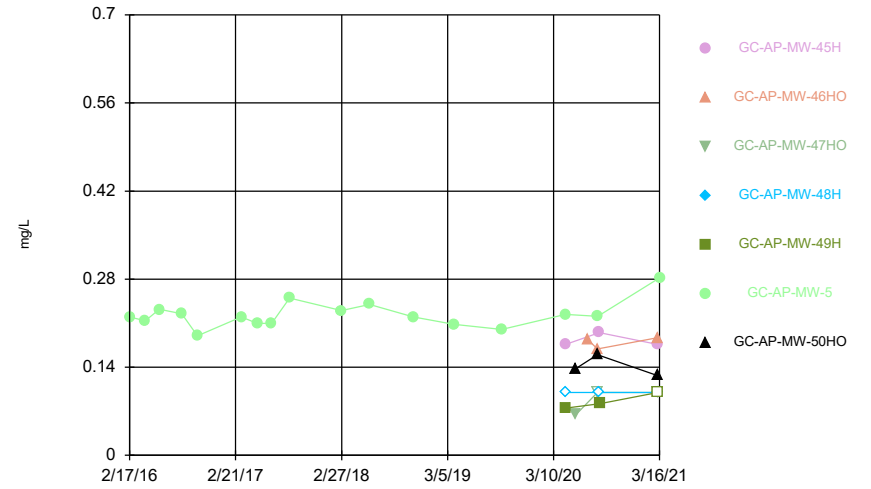
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Time Series



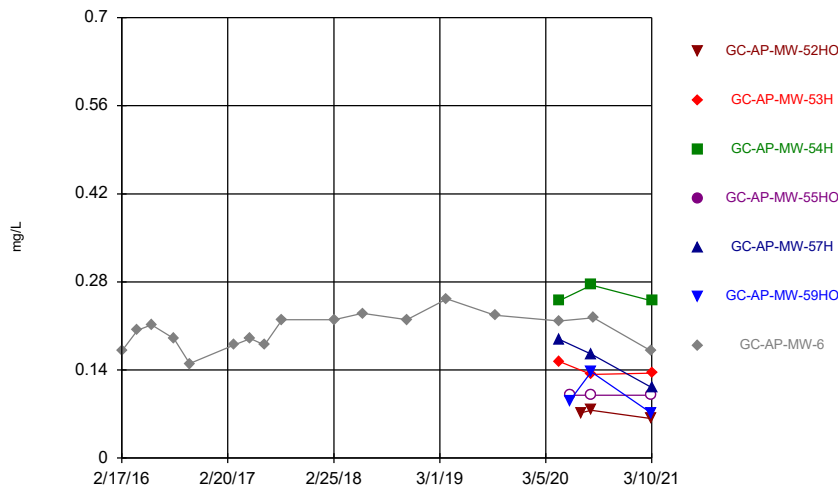
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Time Series



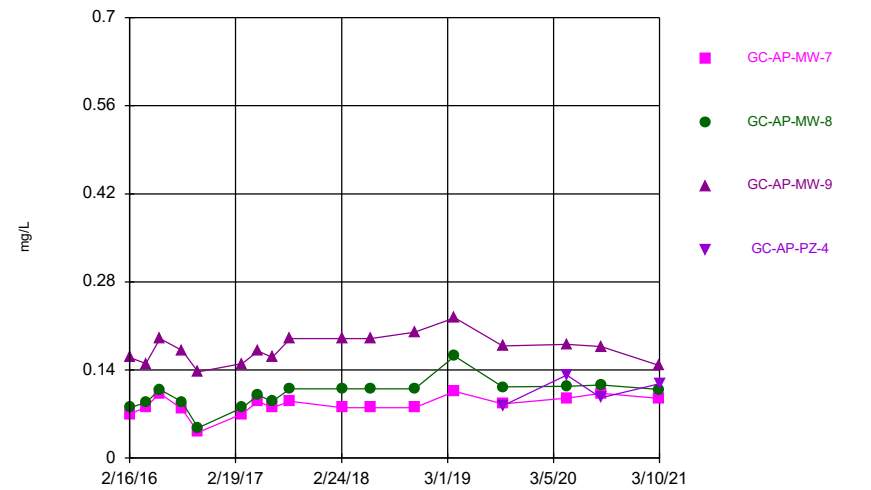
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Time Series



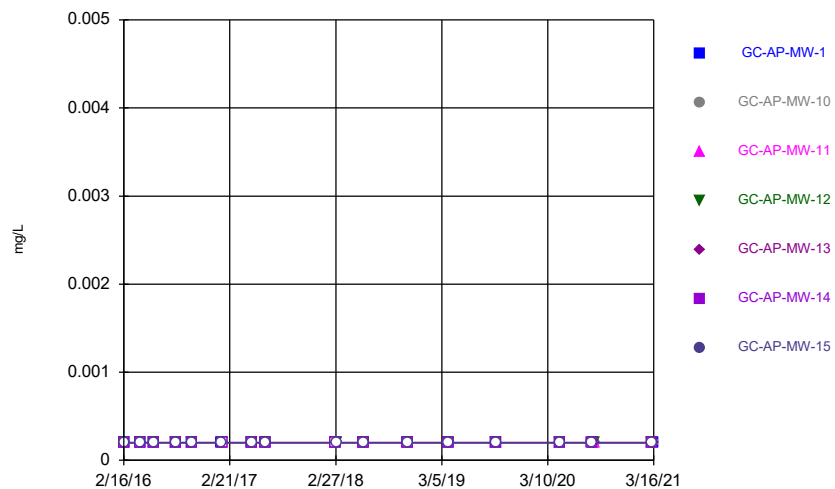
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Time Series



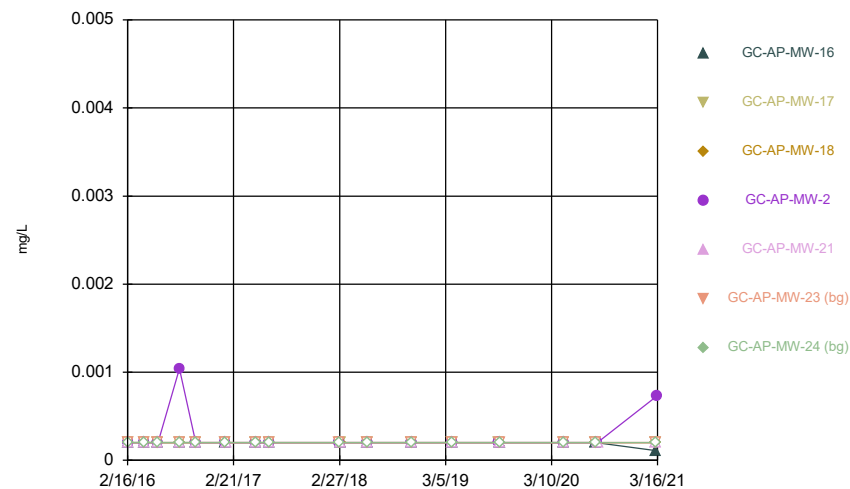
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Time Series



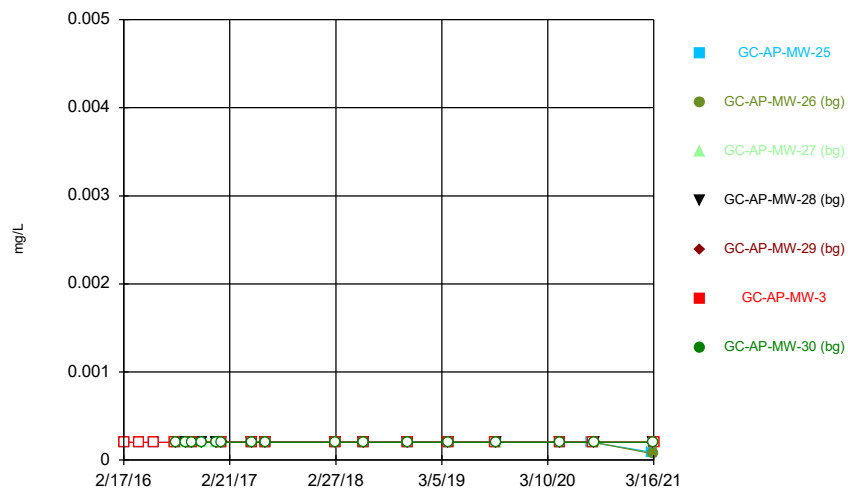
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Time Series



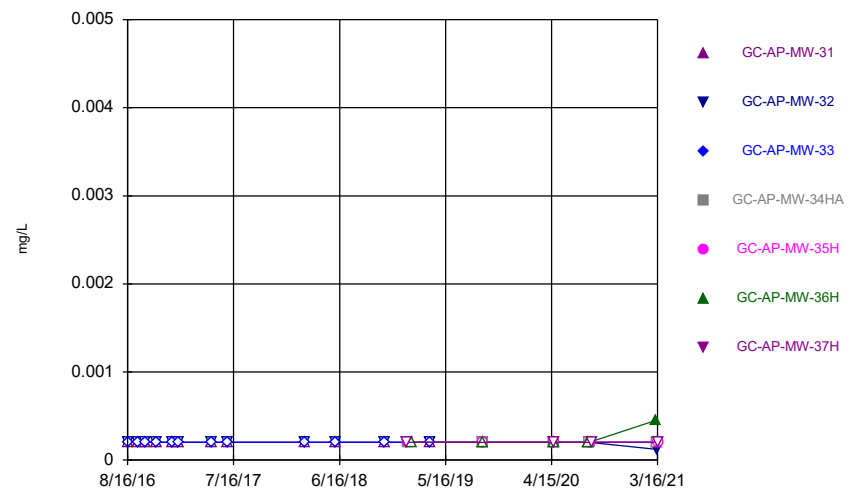
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Time Series



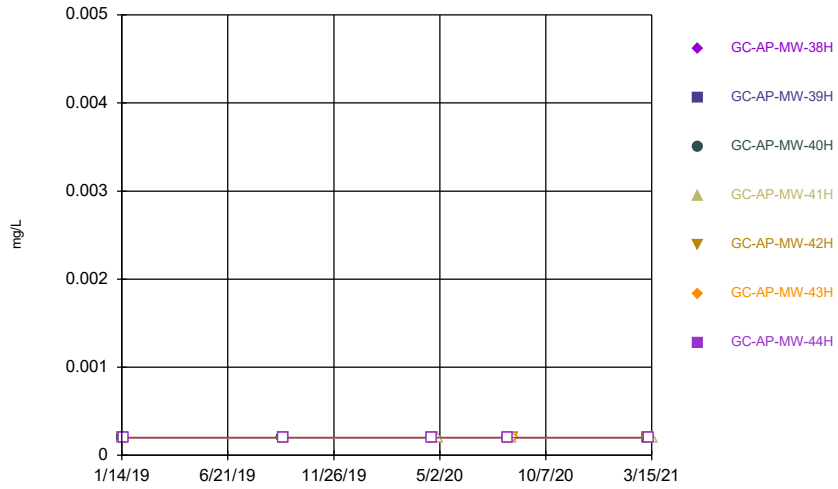
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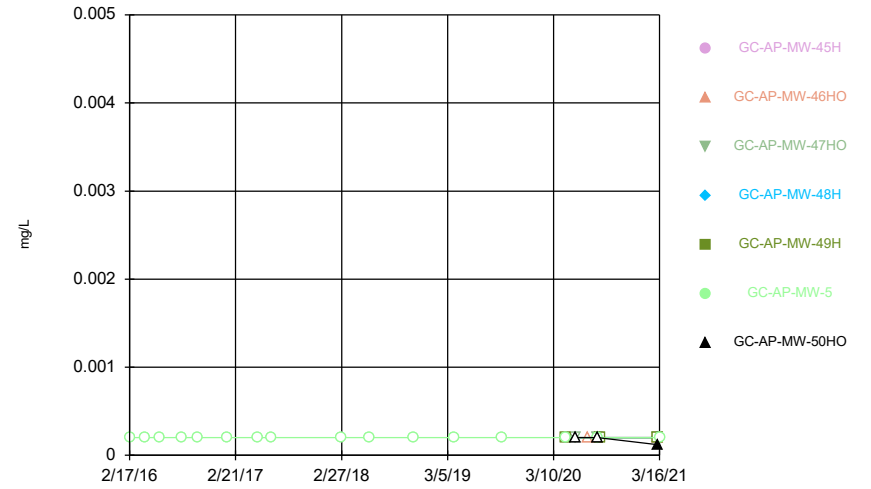
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Time Series



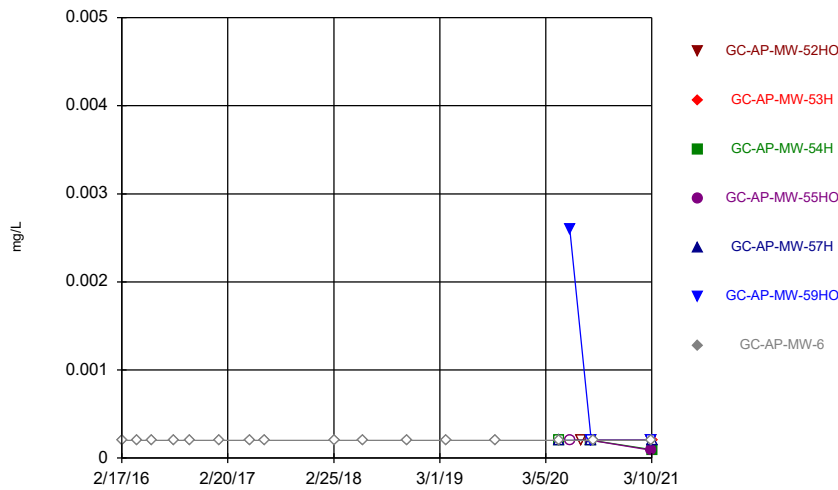
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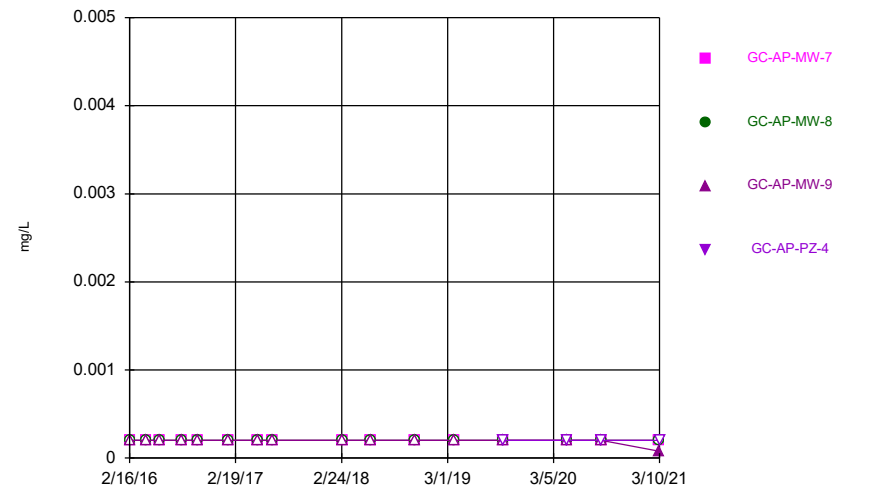
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Time Series



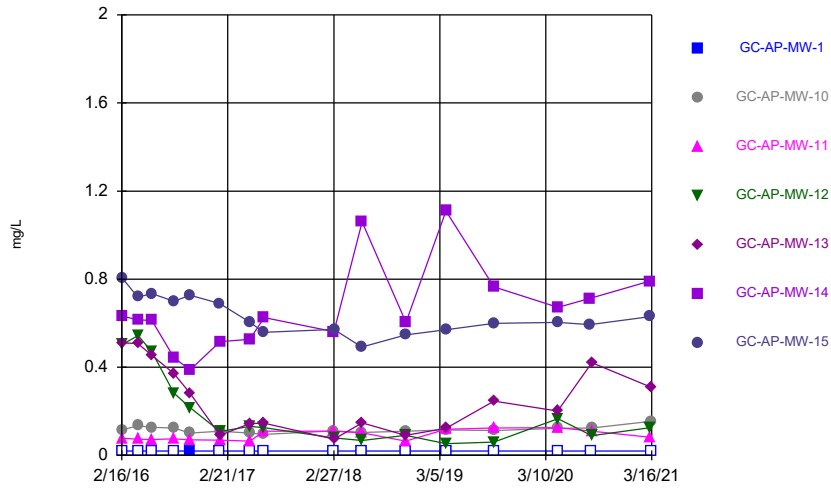
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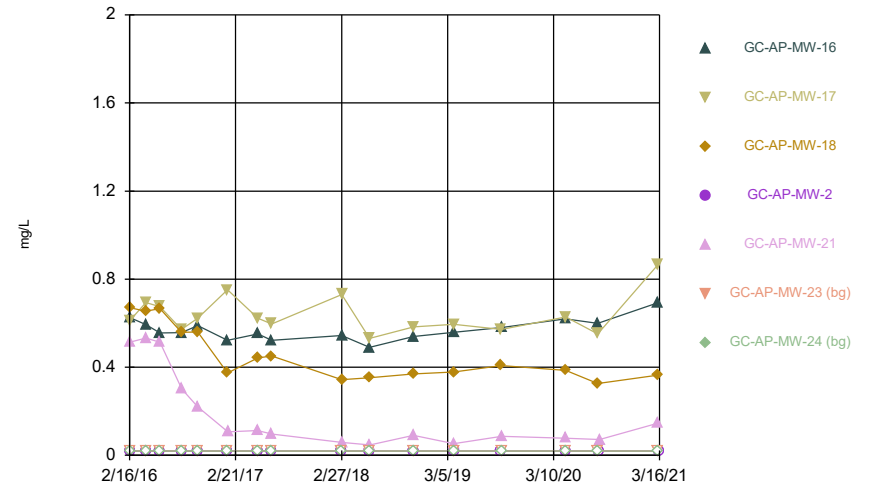
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Time Series



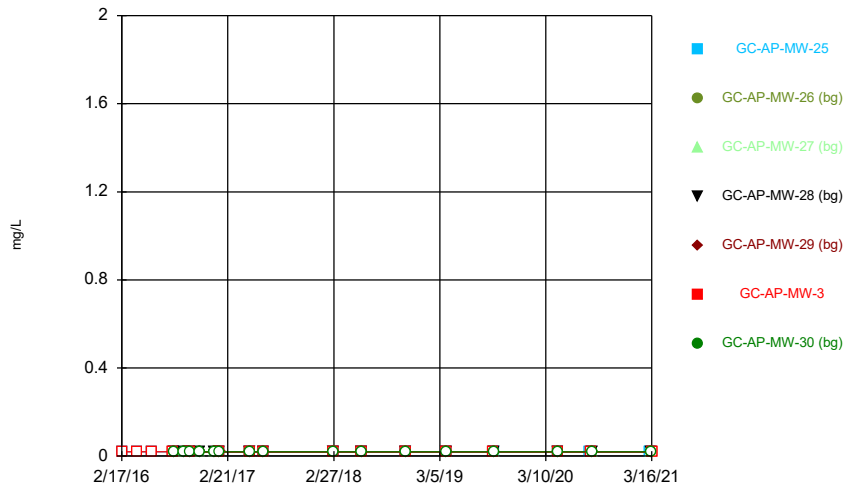
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Time Series



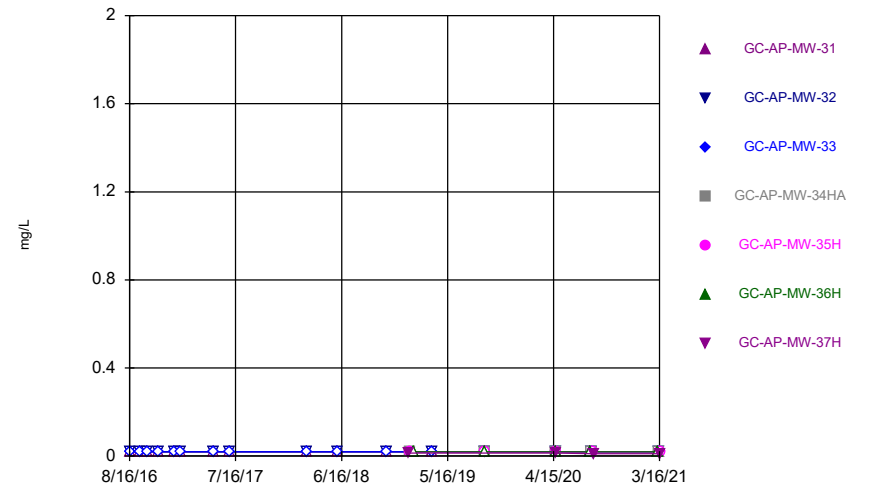
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Time Series



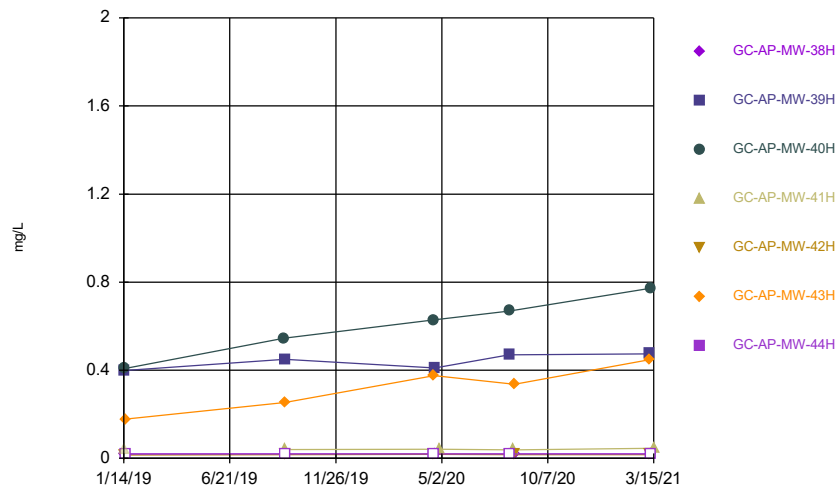
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Time Series



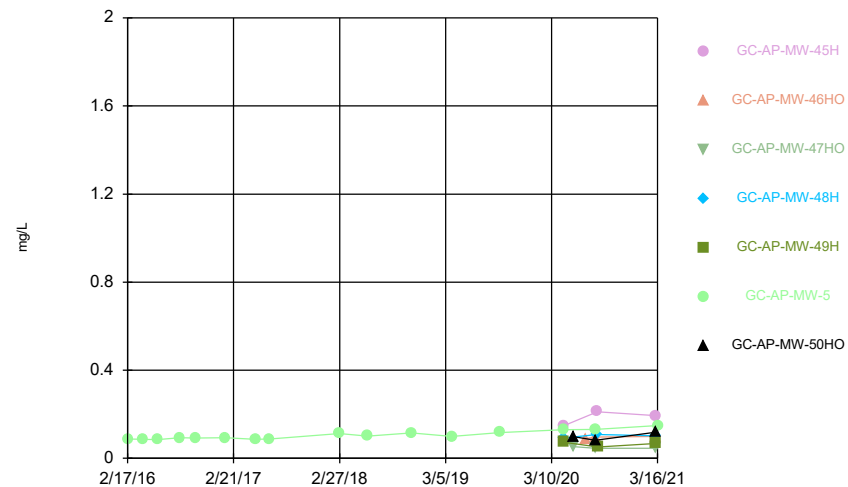
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Time Series



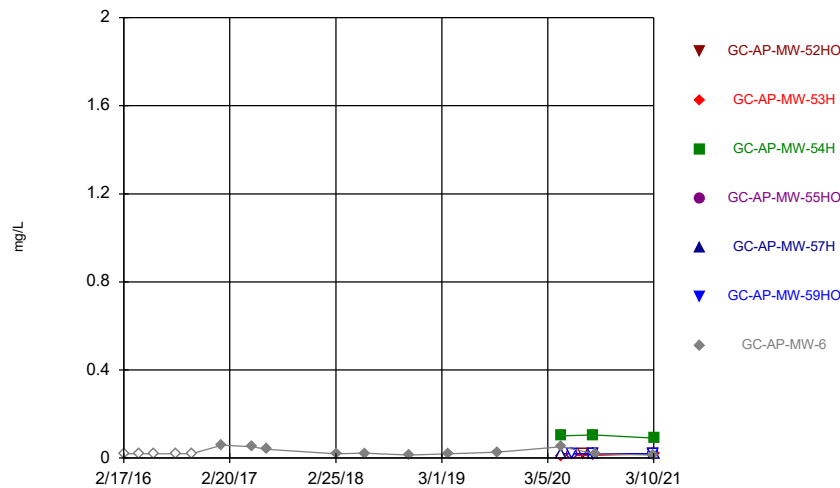
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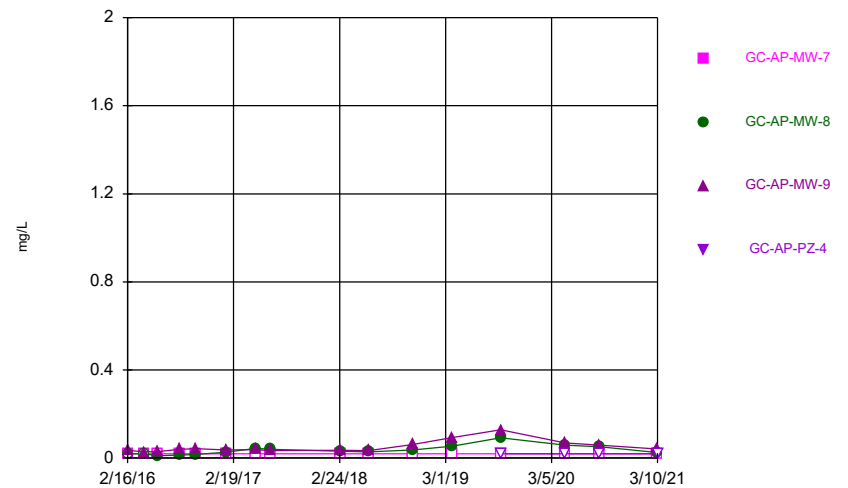
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Time Series



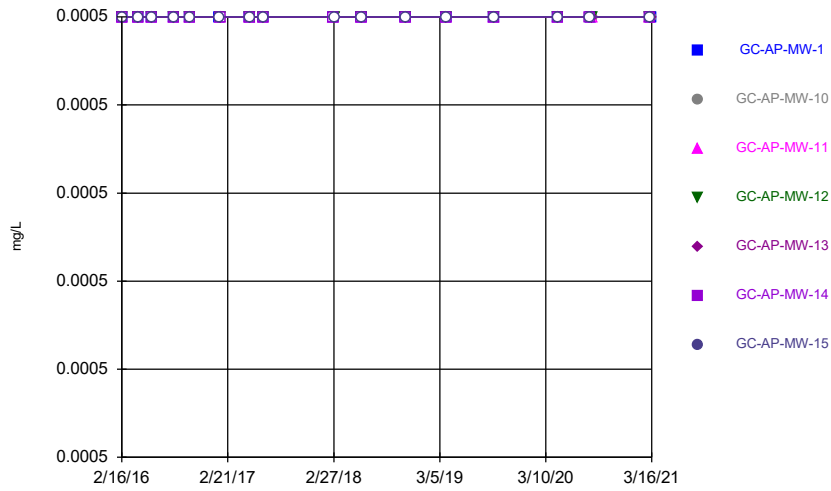
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Time Series



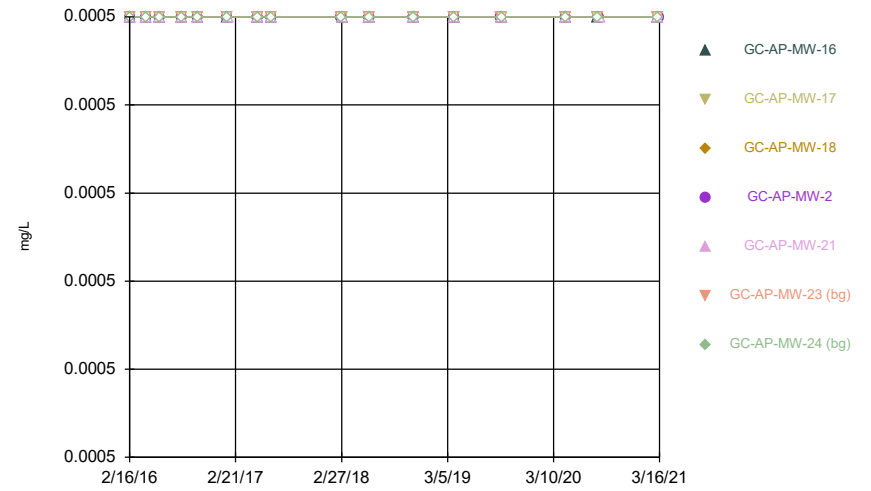
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Time Series



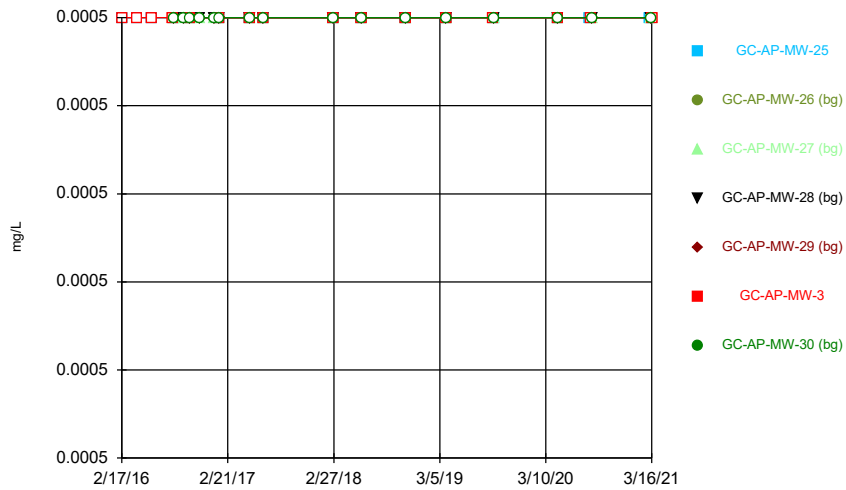
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Time Series



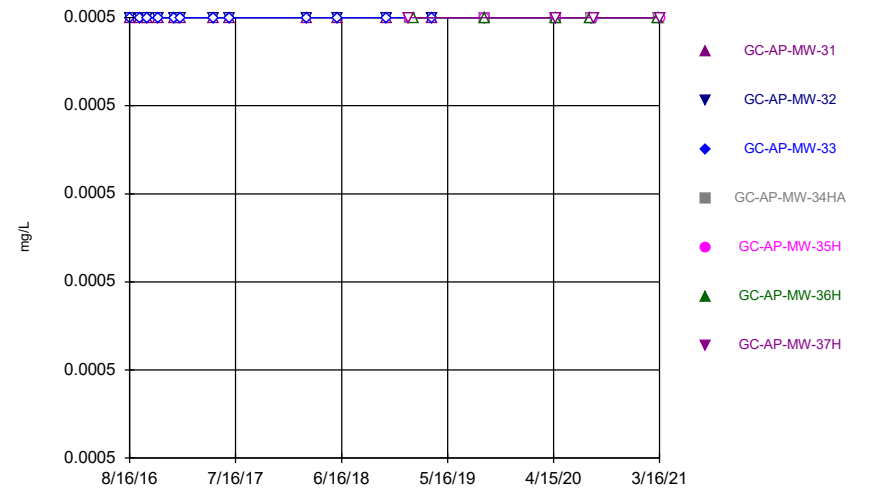
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Time Series



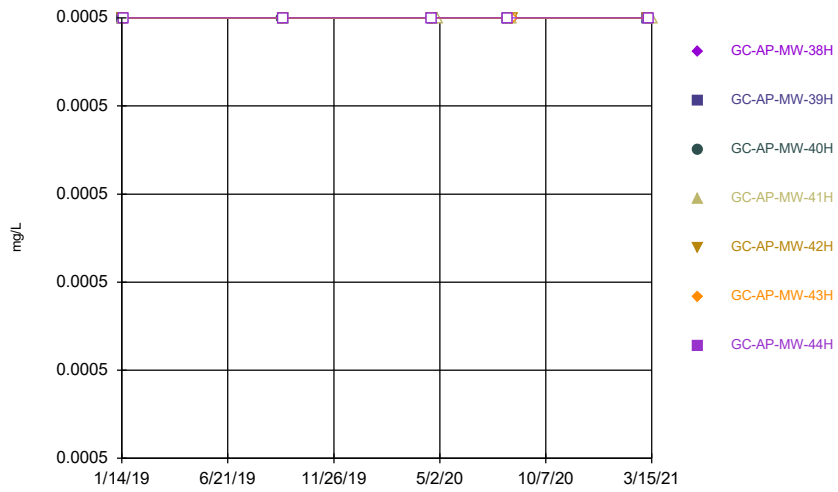
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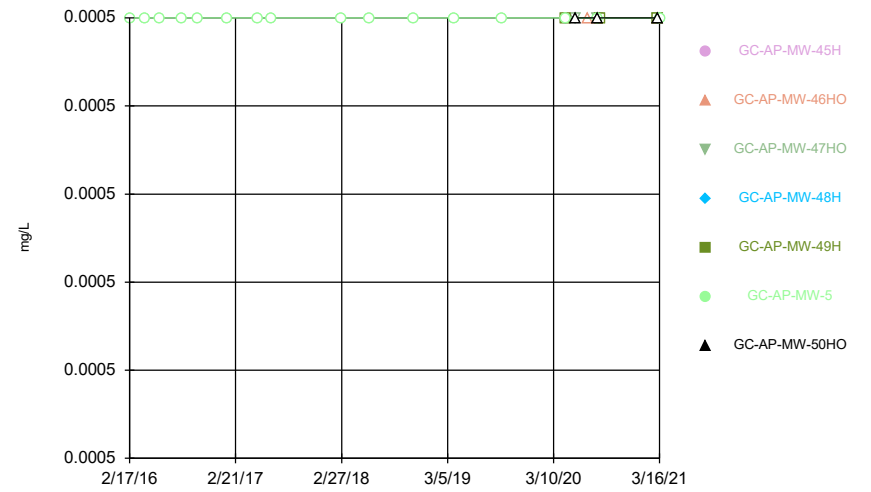
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Time Series



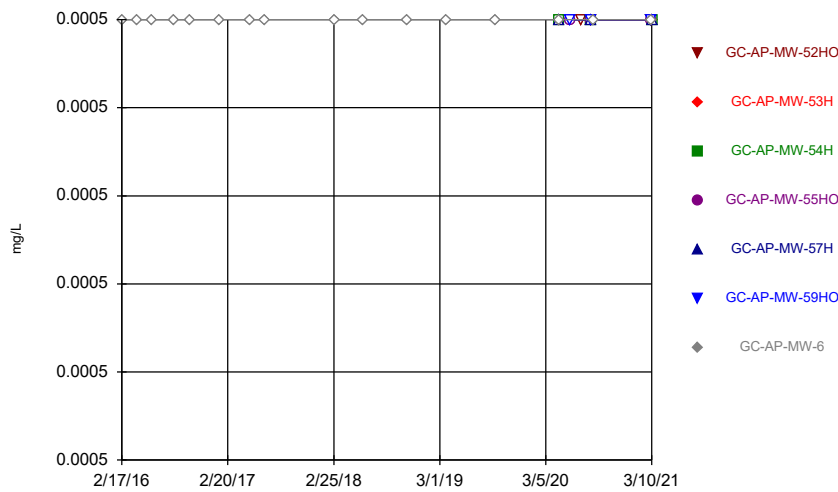
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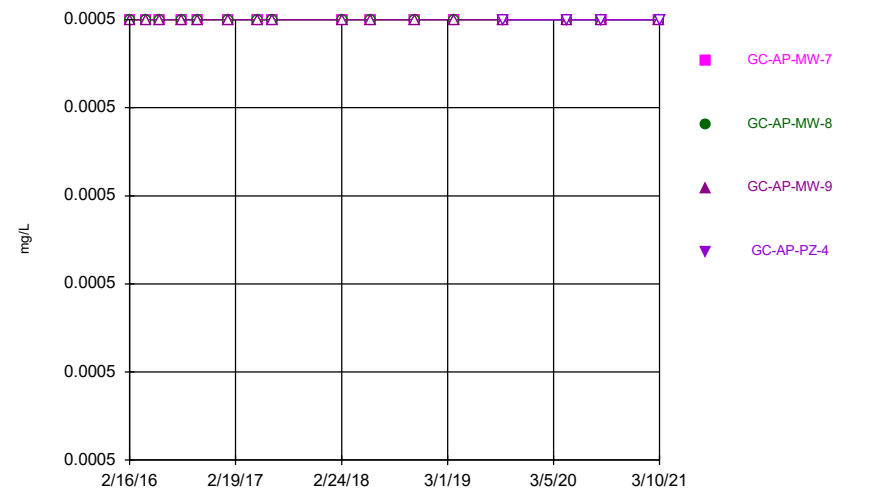
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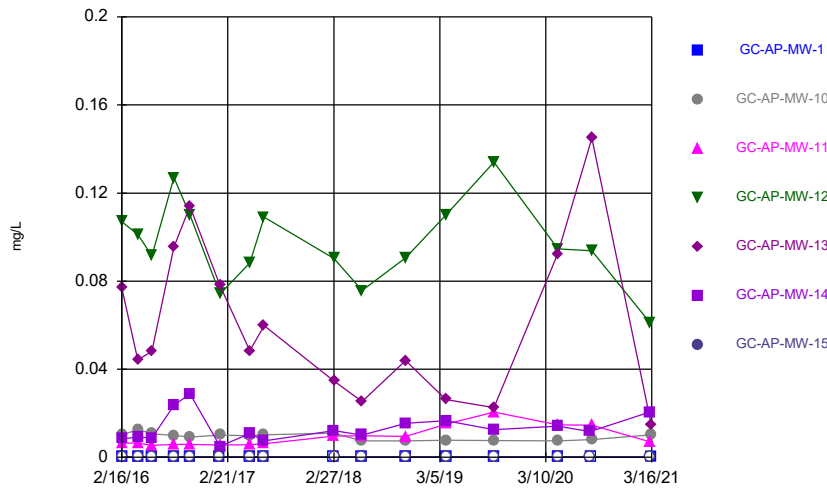
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Time Series



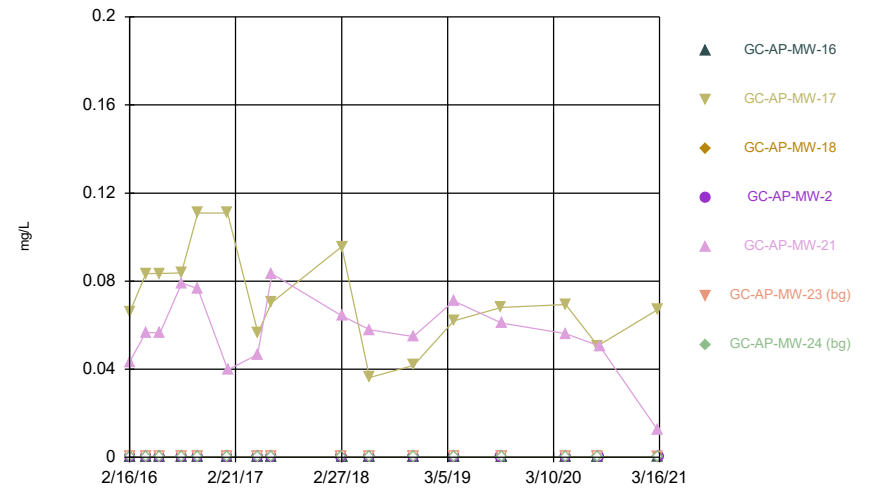
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Time Series



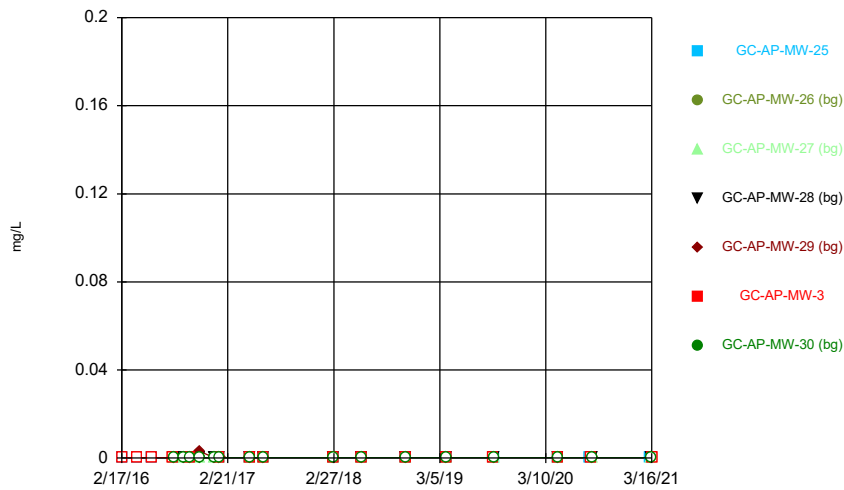
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Time Series



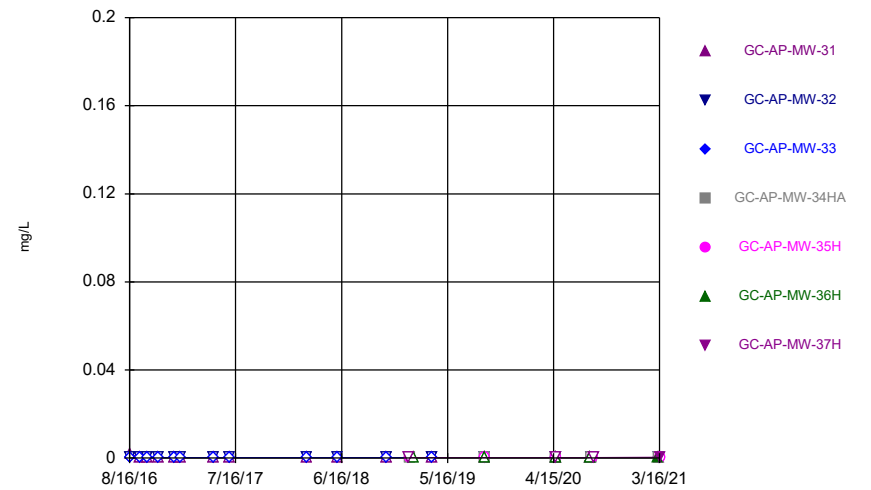
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Time Series



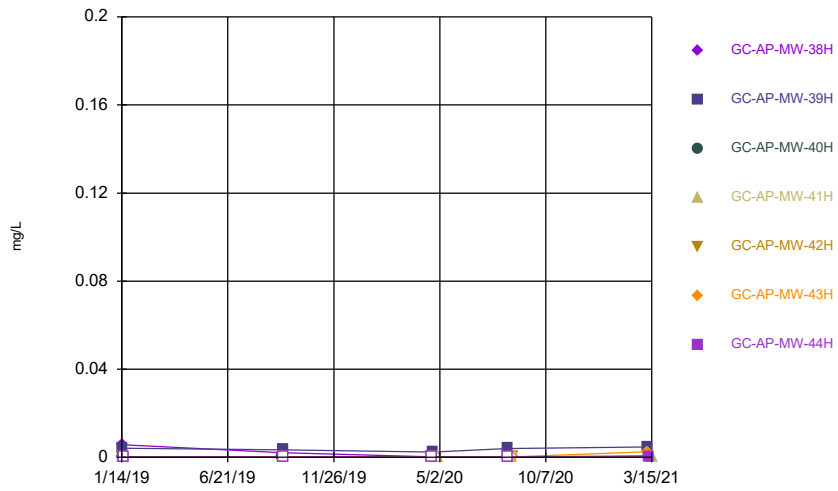
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Time Series



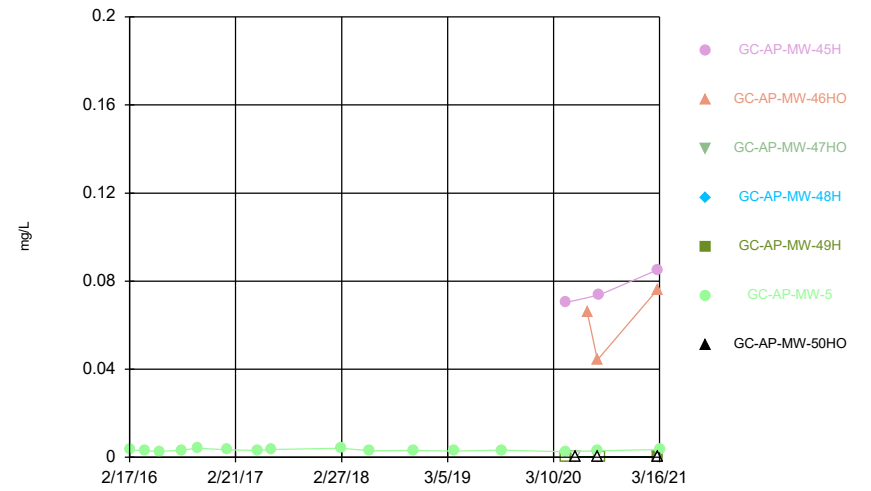
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Time Series



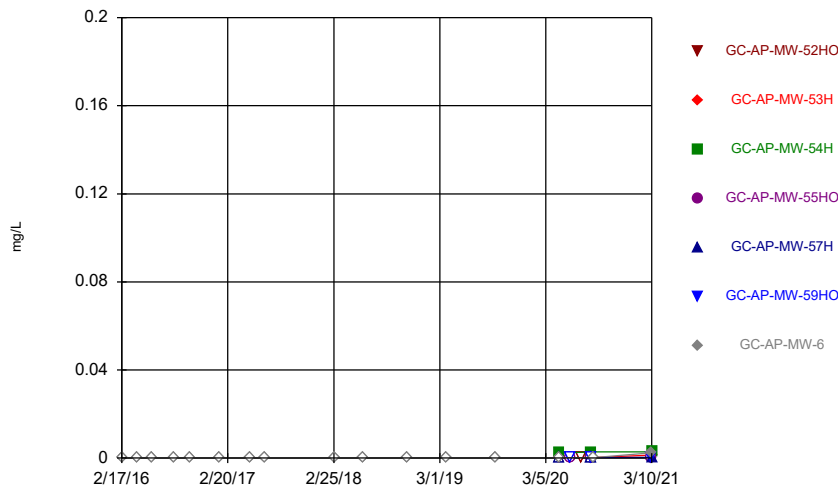
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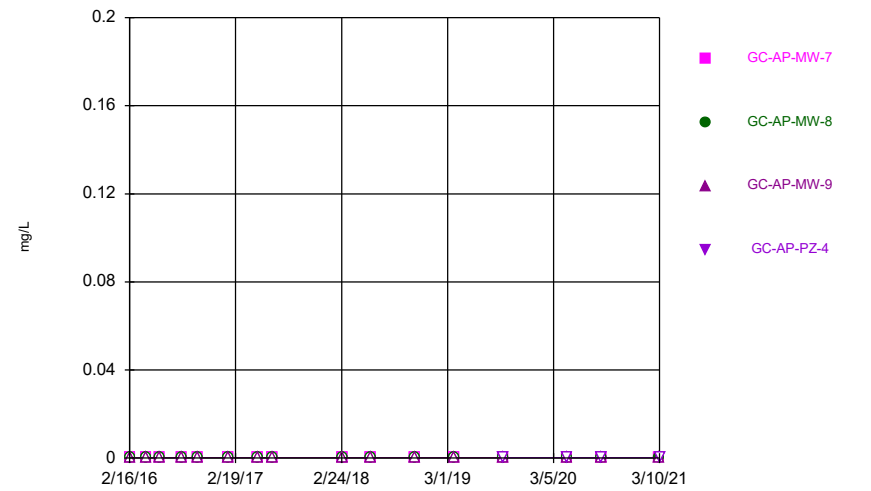
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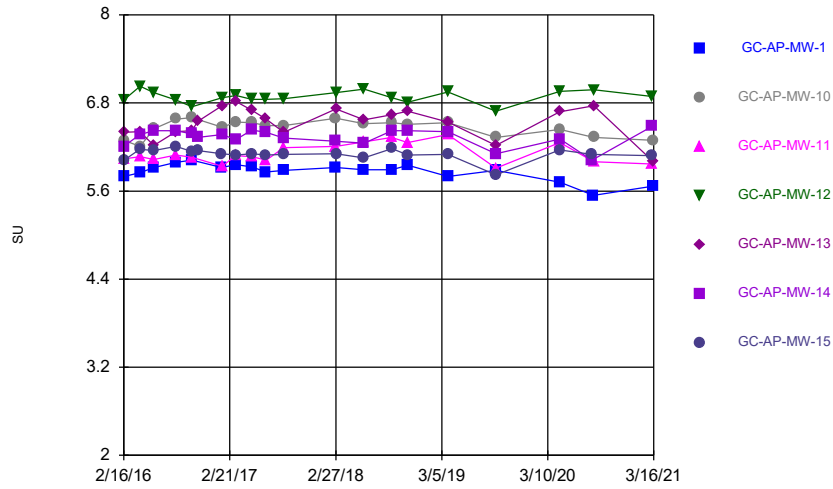
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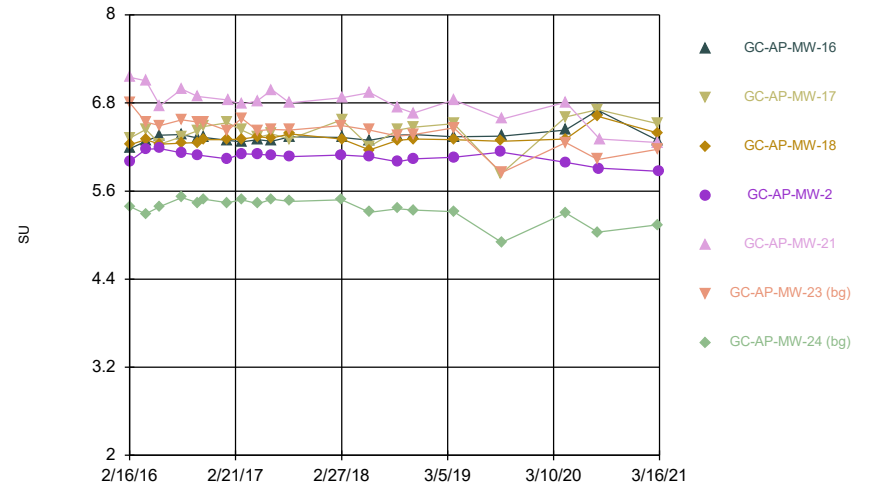
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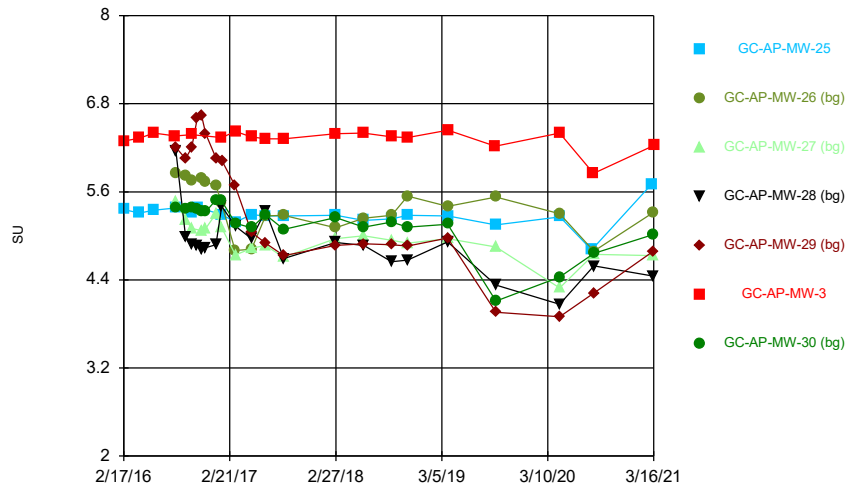
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Time Series



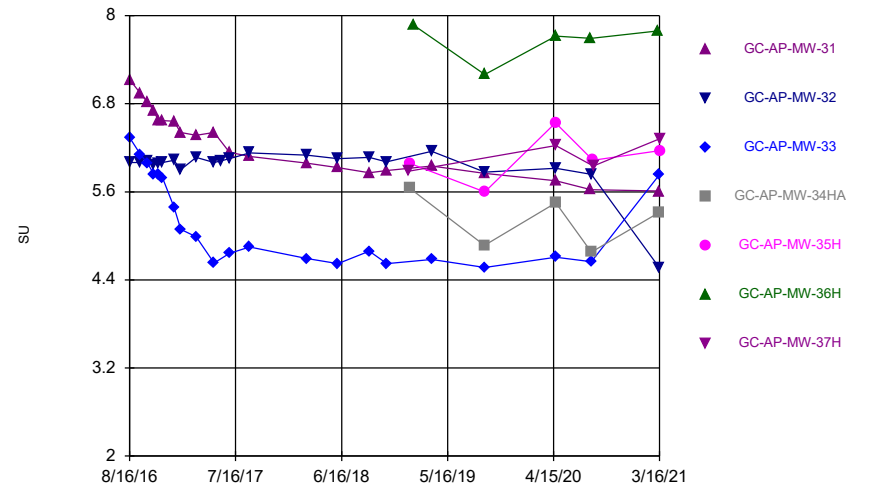
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Time Series



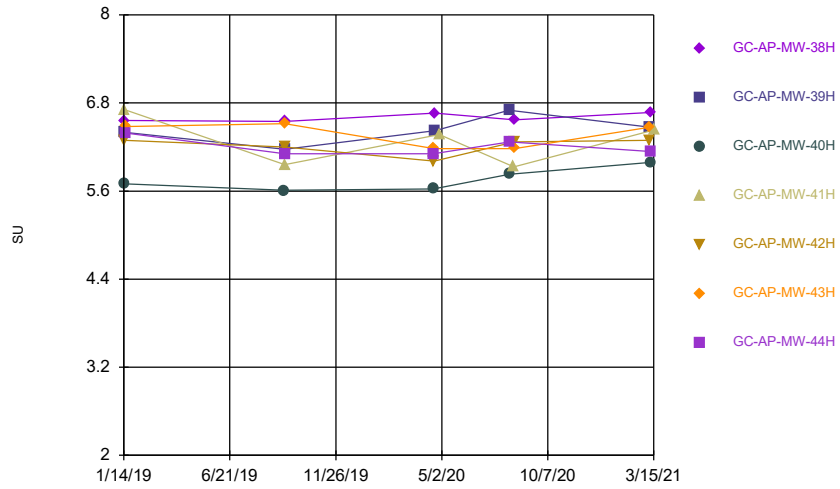
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Time Series



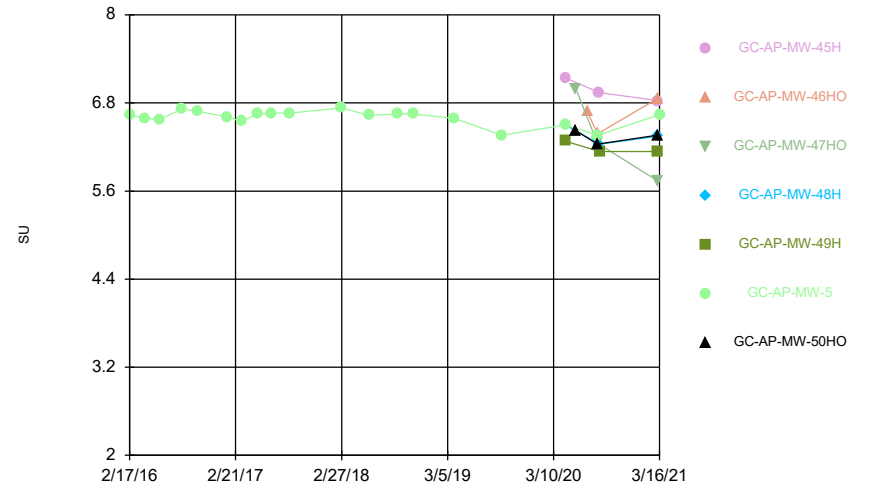
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Time Series



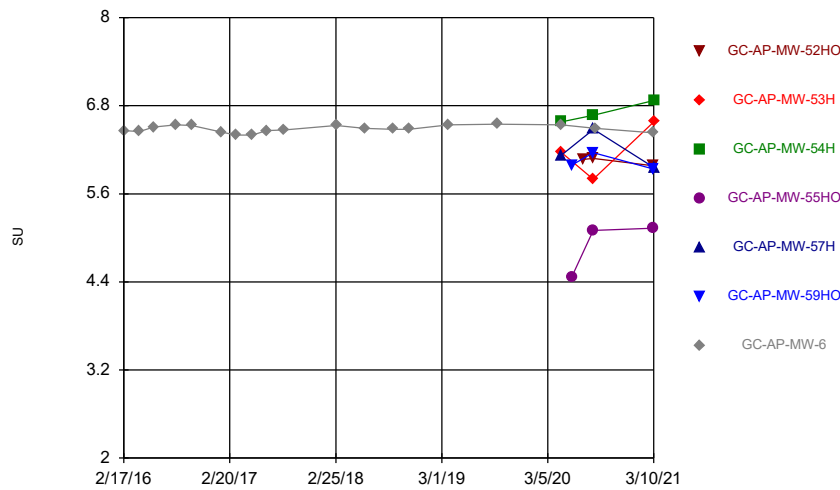
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Time Series



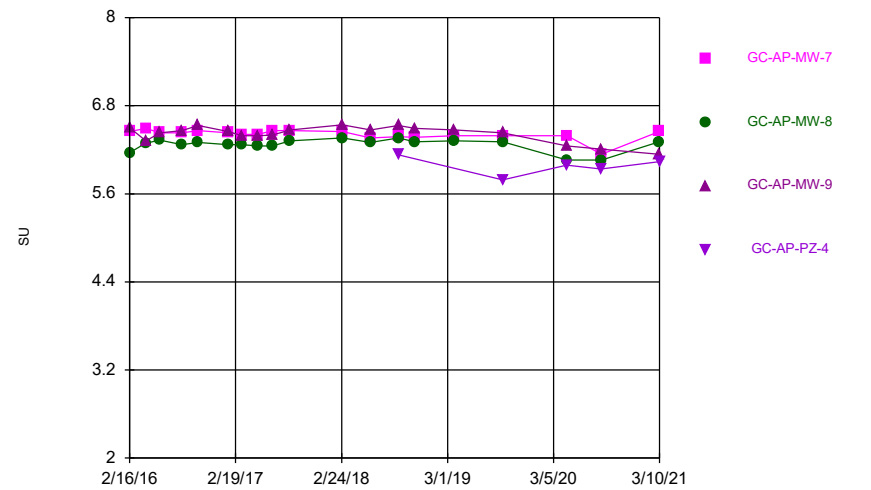
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Time Series



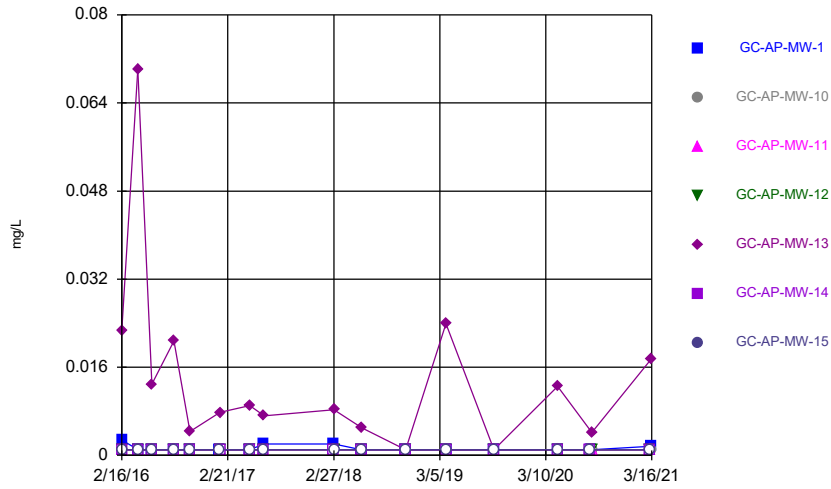
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Time Series



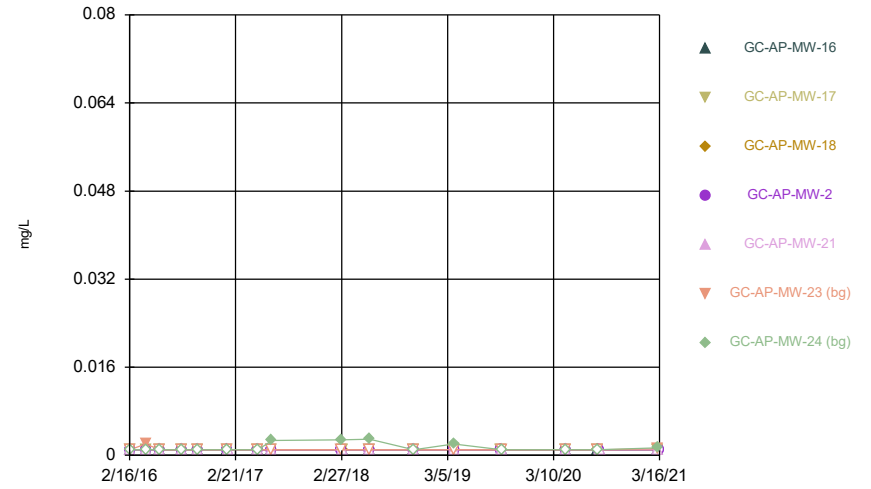
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Time Series



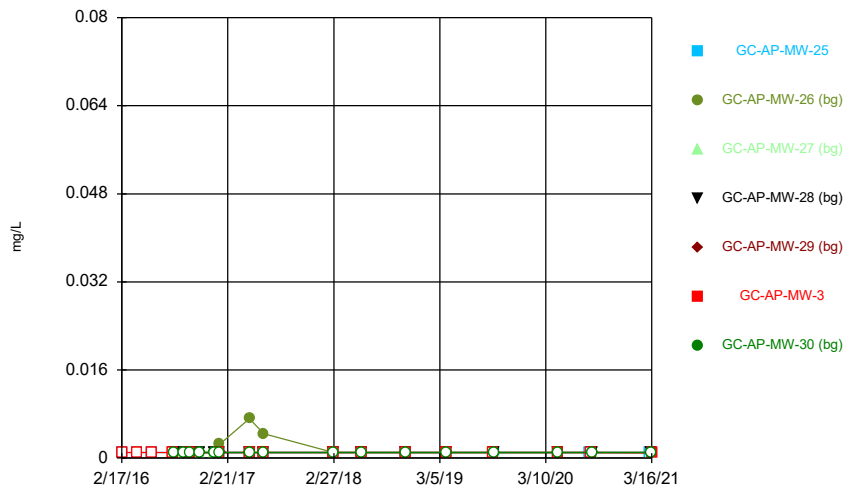
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Time Series



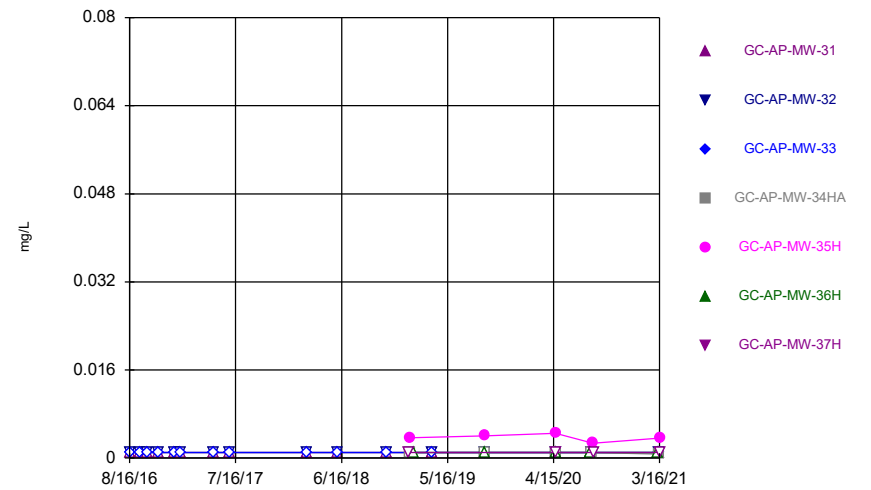
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Time Series



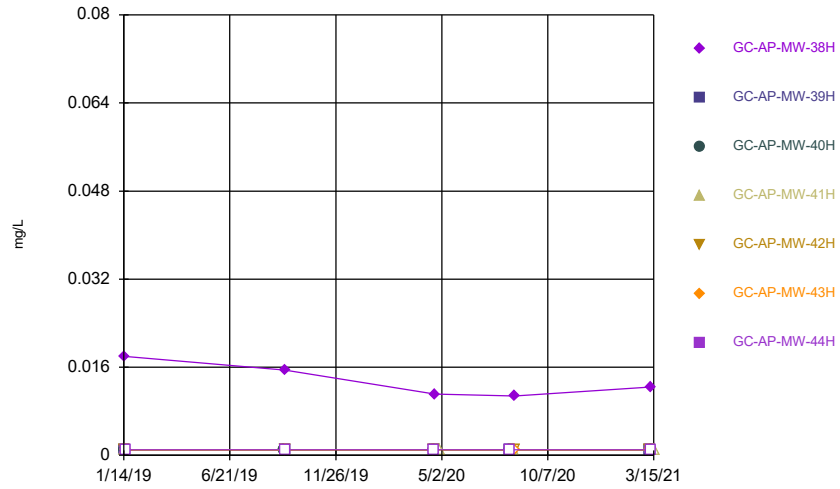
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Time Series



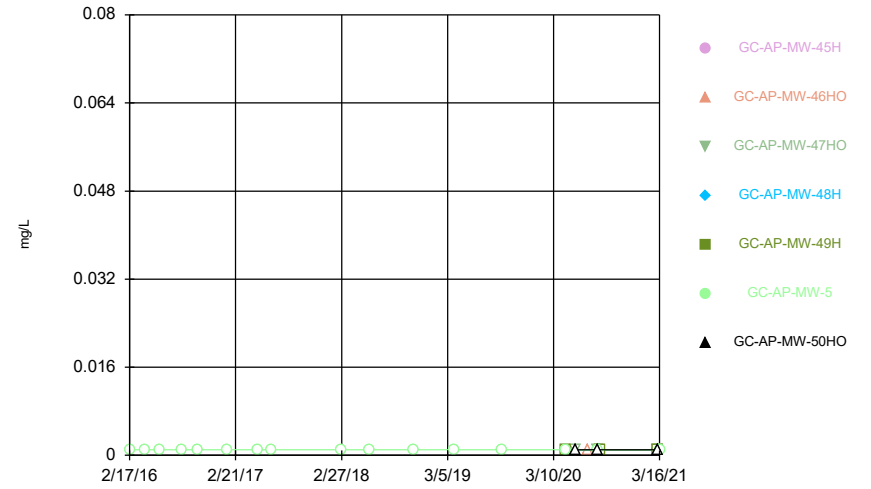
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Time Series



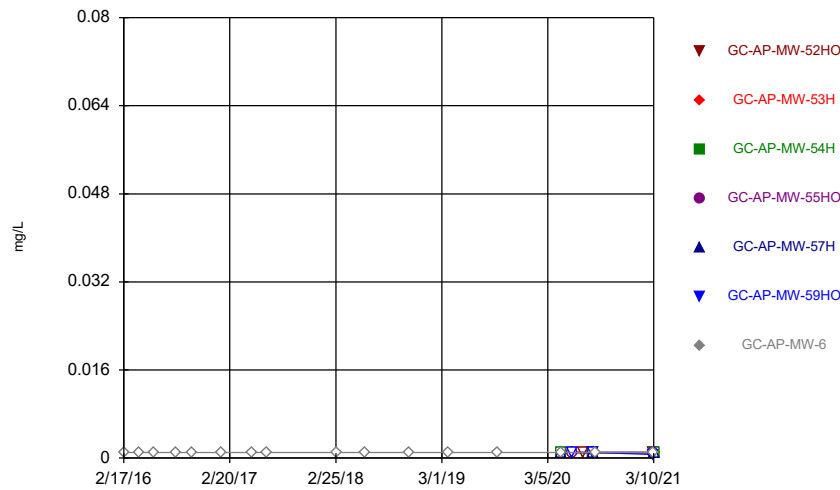
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Time Series



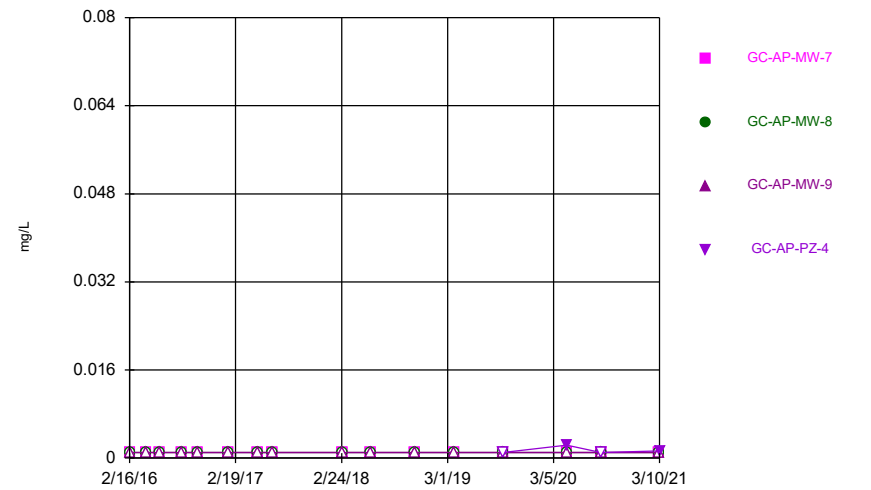
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Time Series



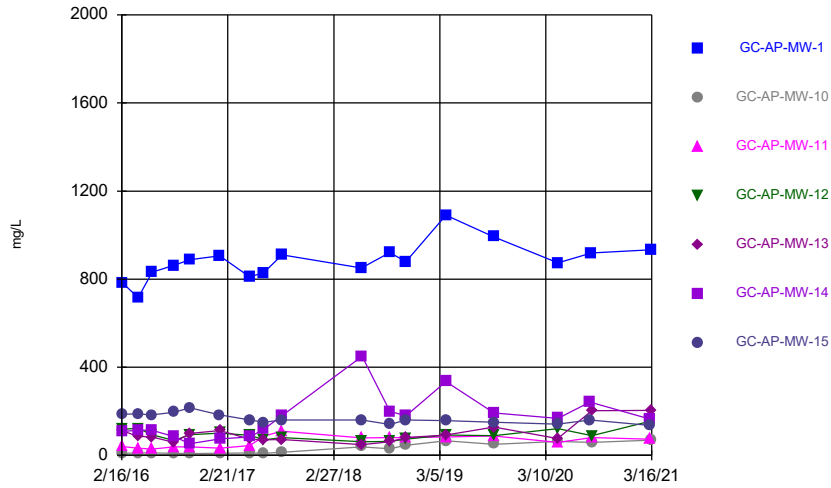
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Time Series



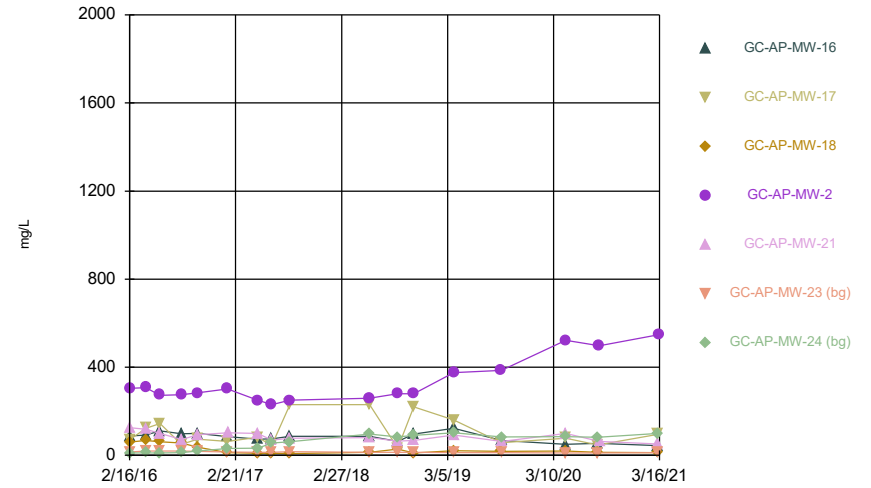
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Time Series



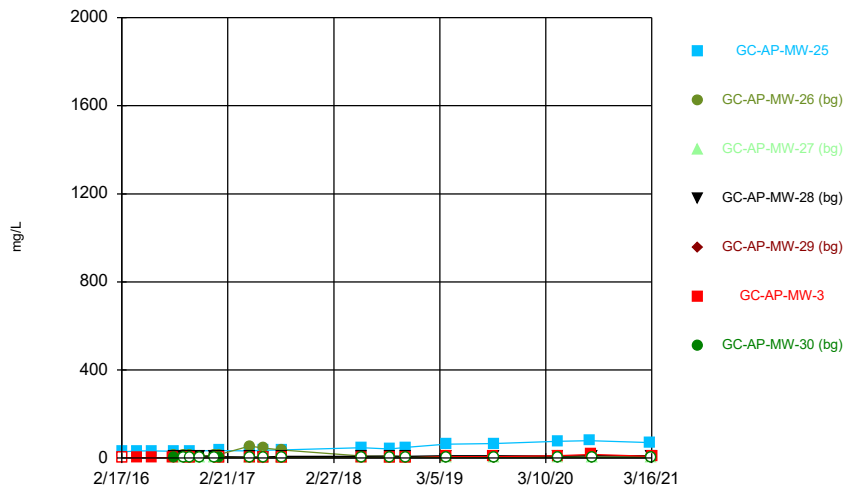
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Time Series



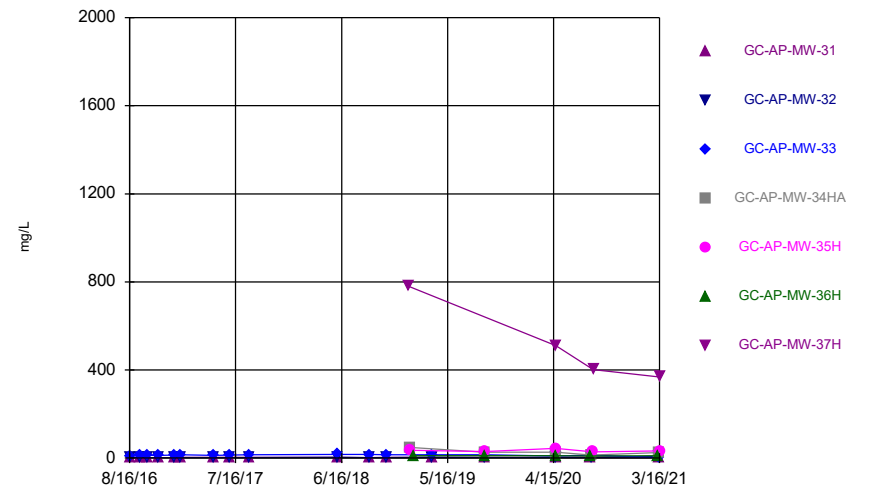
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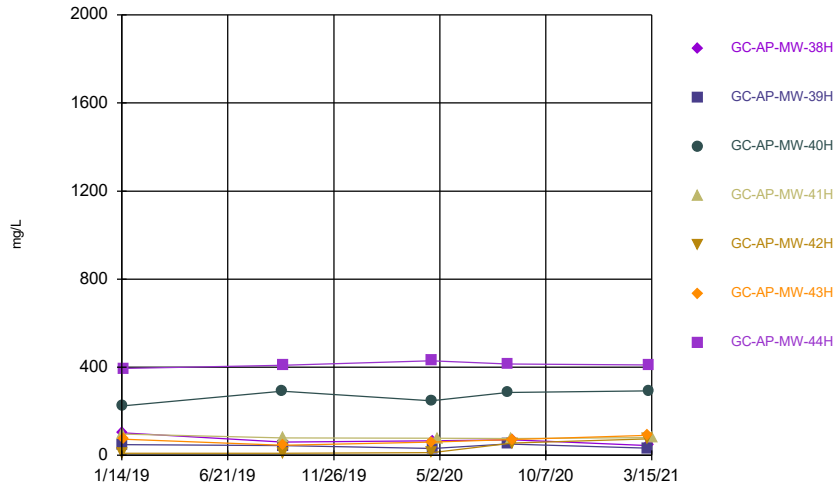
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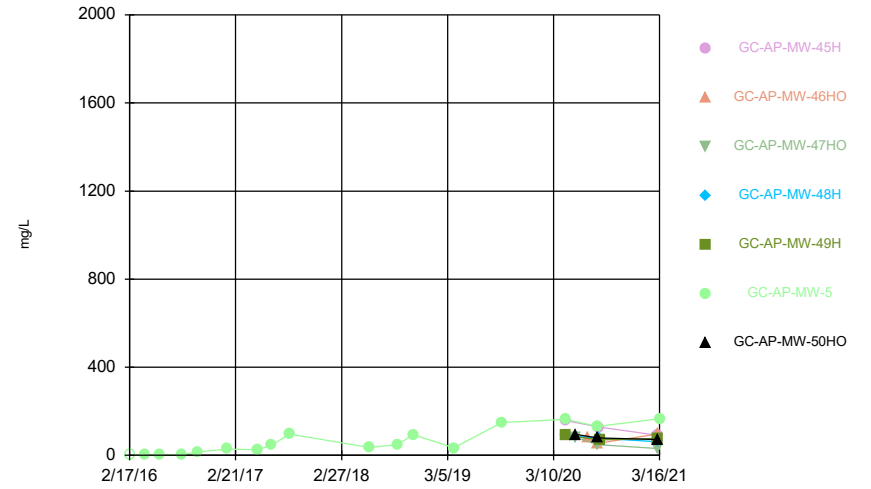
Time Series



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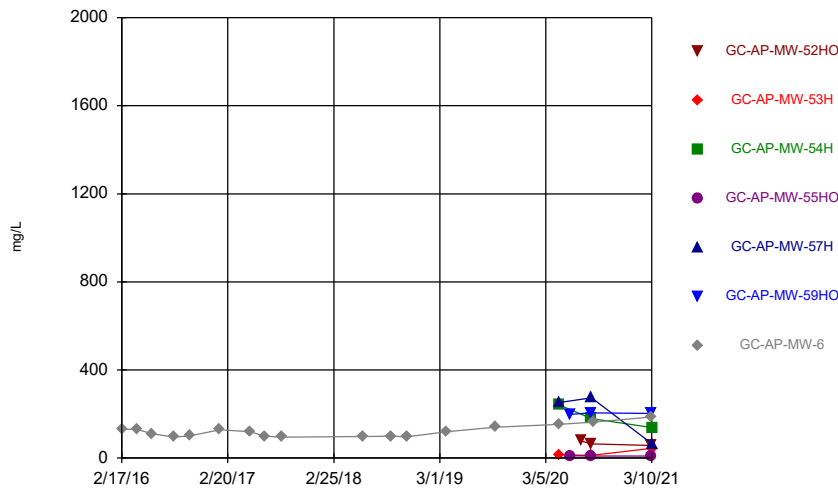
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Time Series



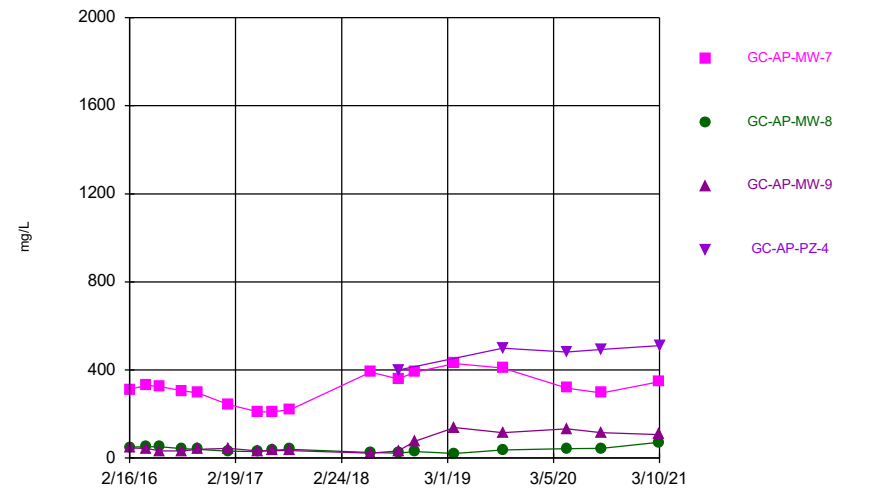
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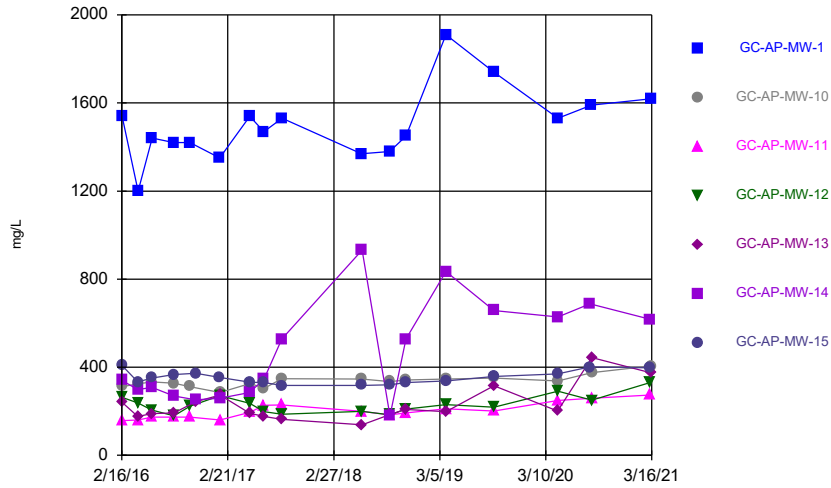
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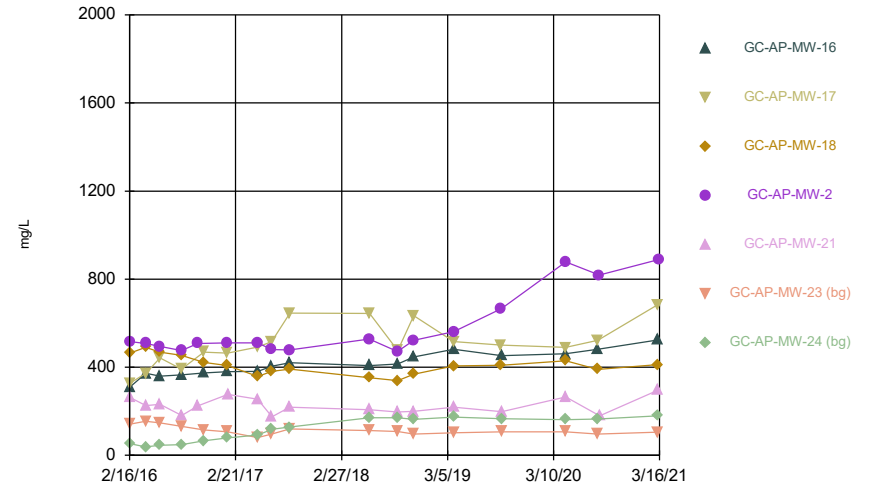
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Time Series



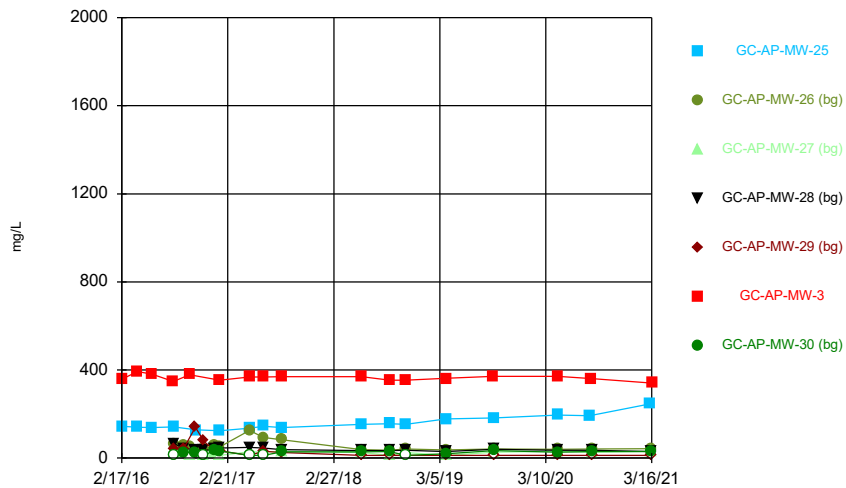
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Time Series



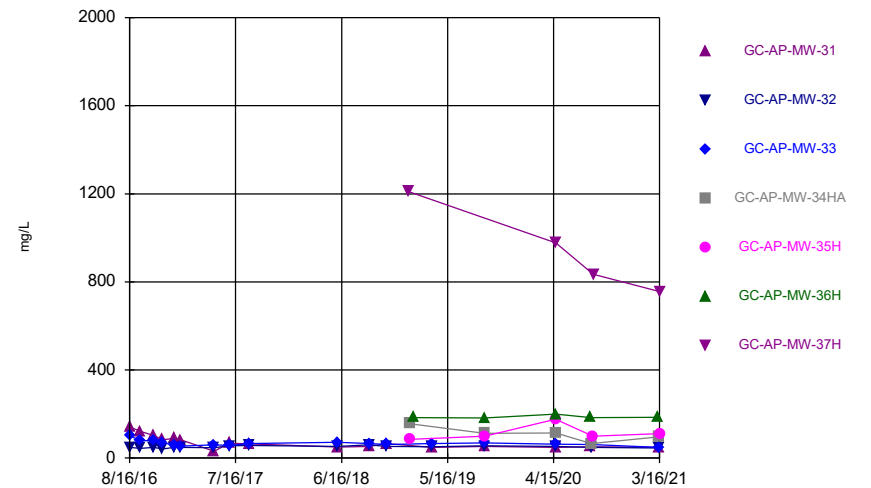
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Time Series



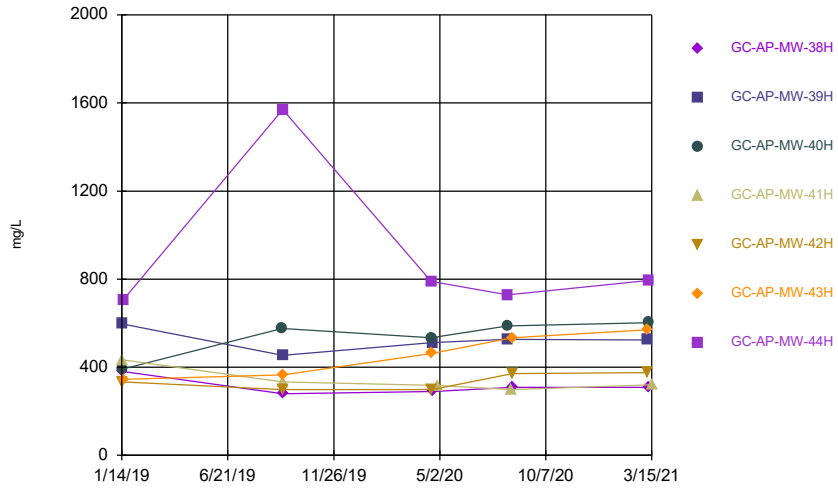
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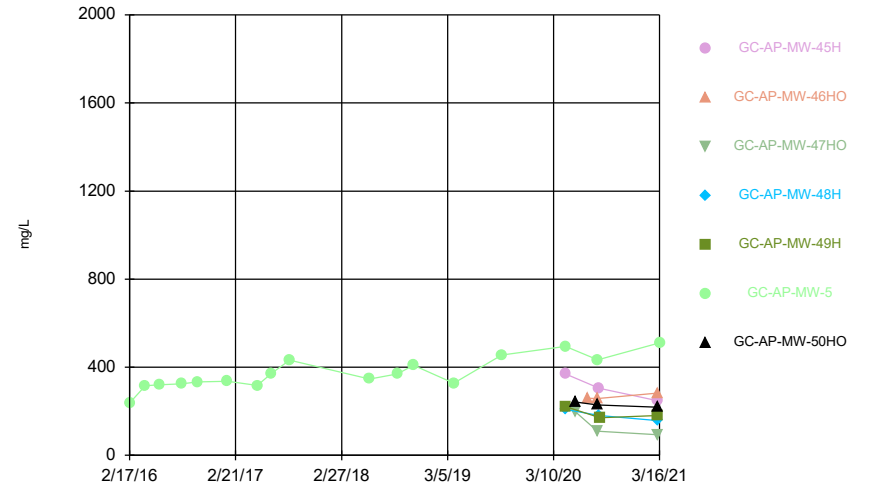
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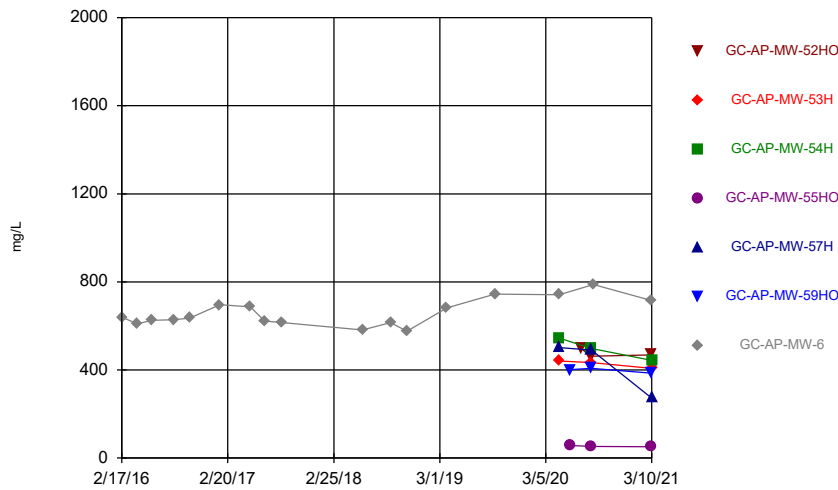
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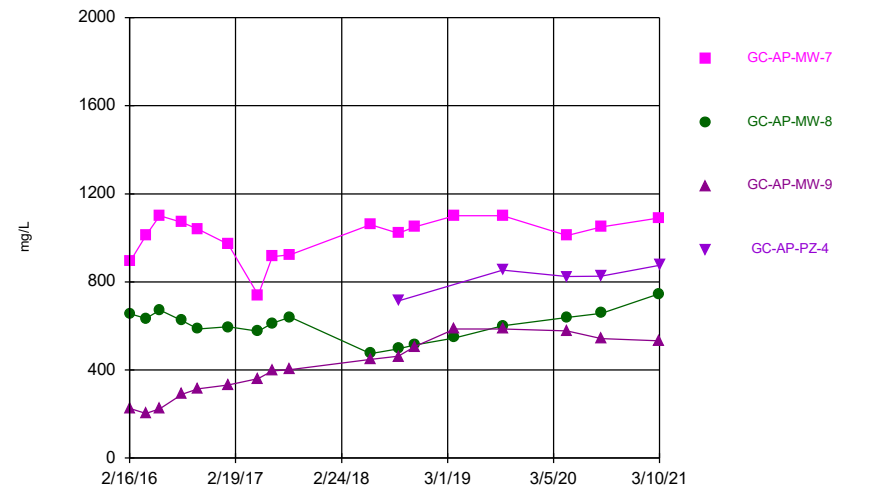
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Time Series



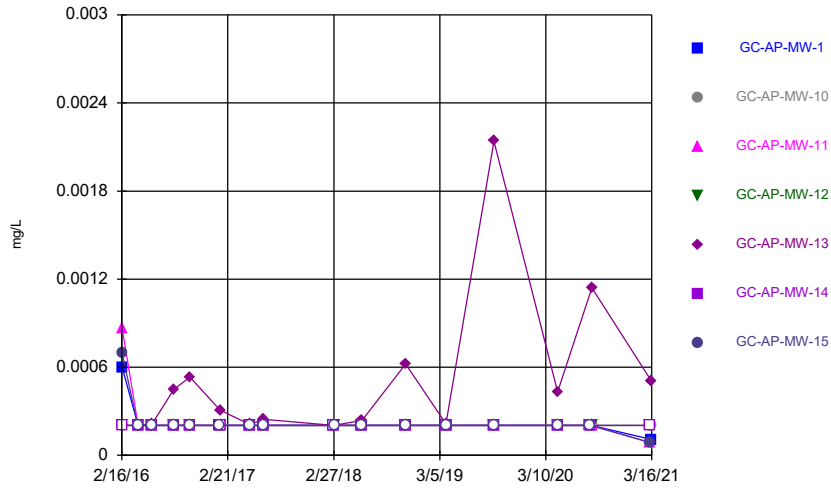
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Time Series



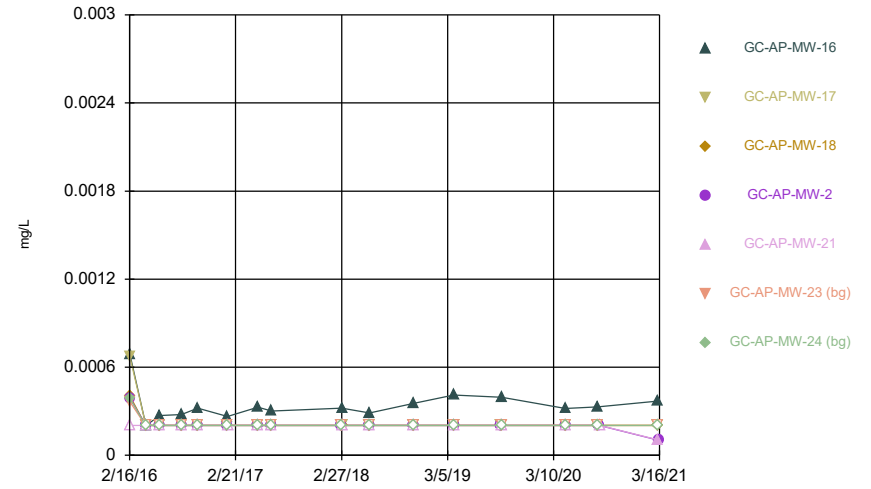
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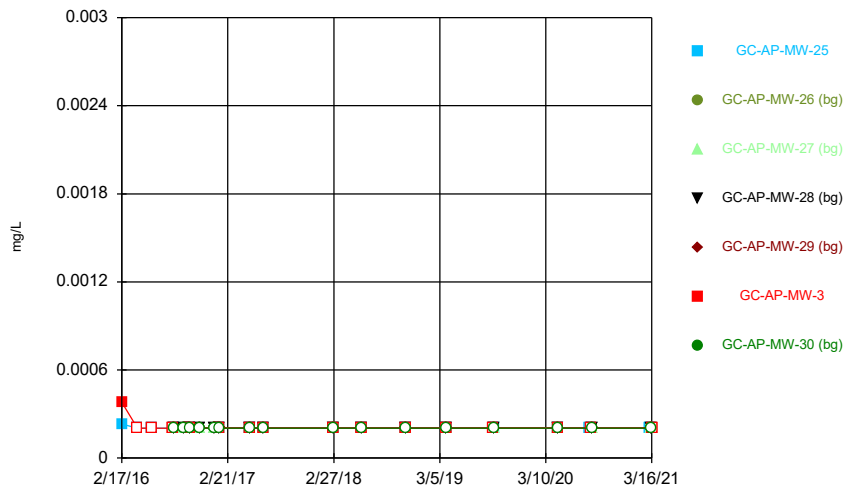
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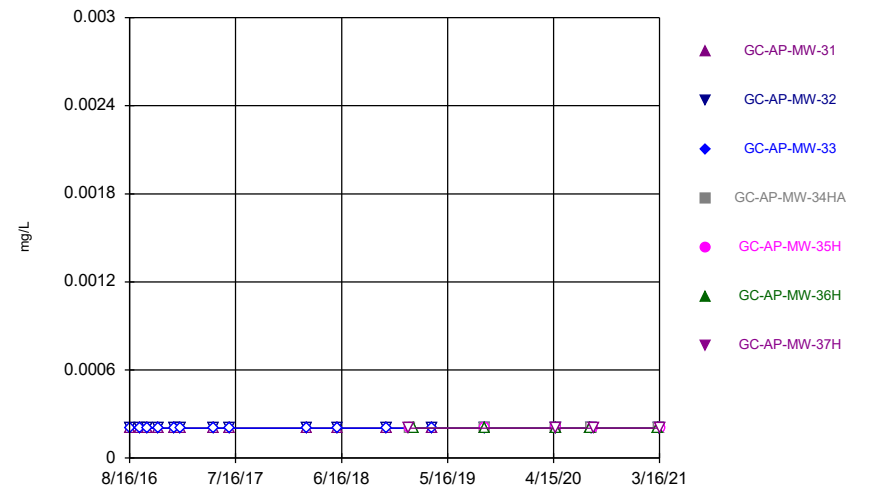
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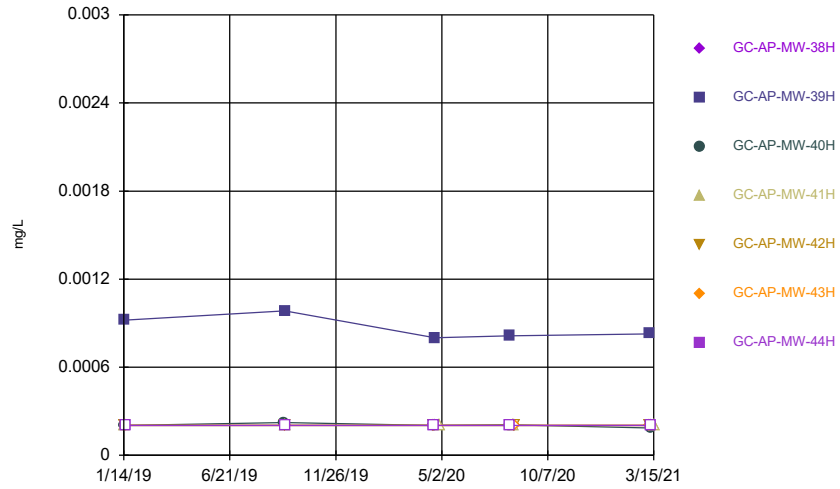
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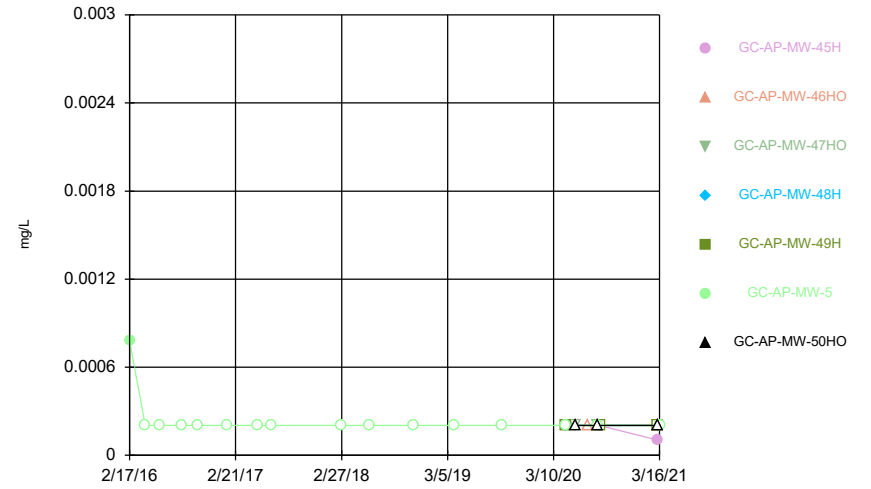
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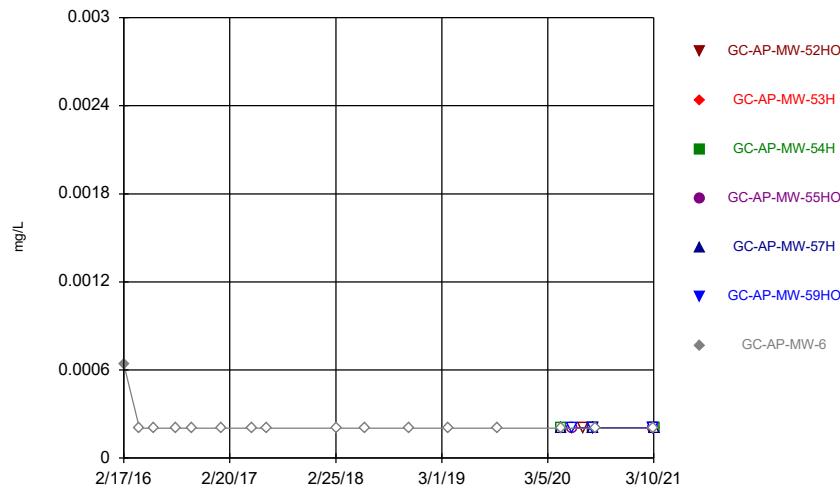
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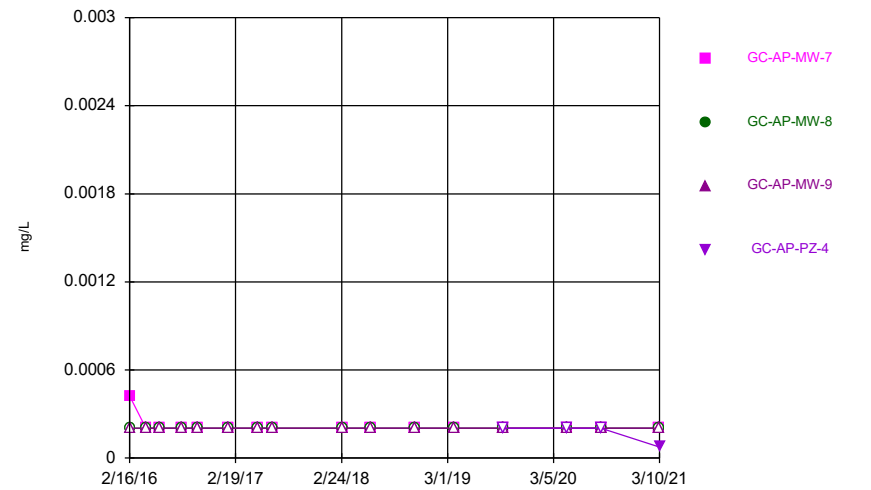
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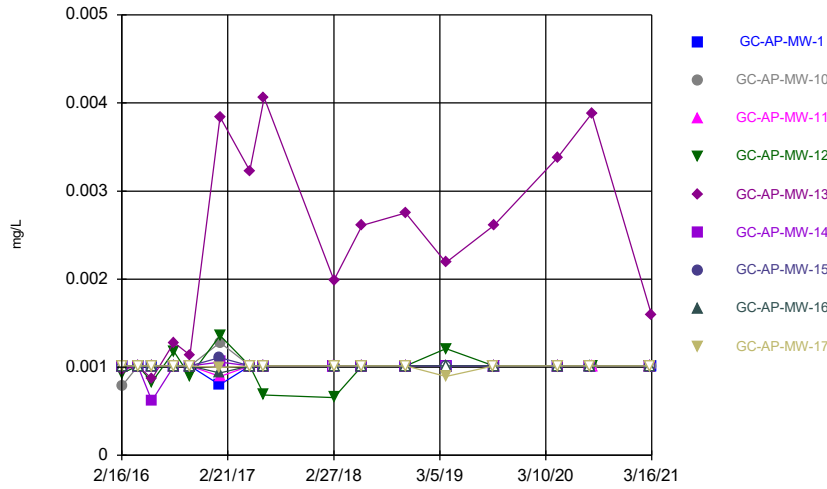
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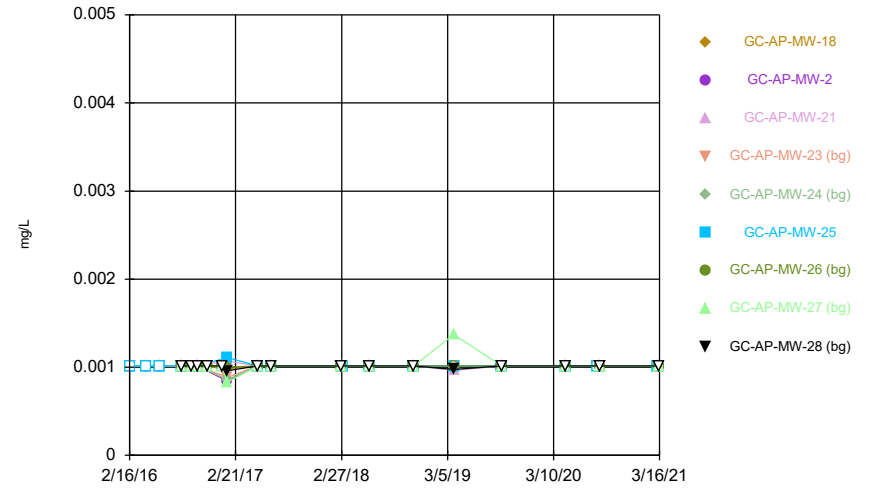


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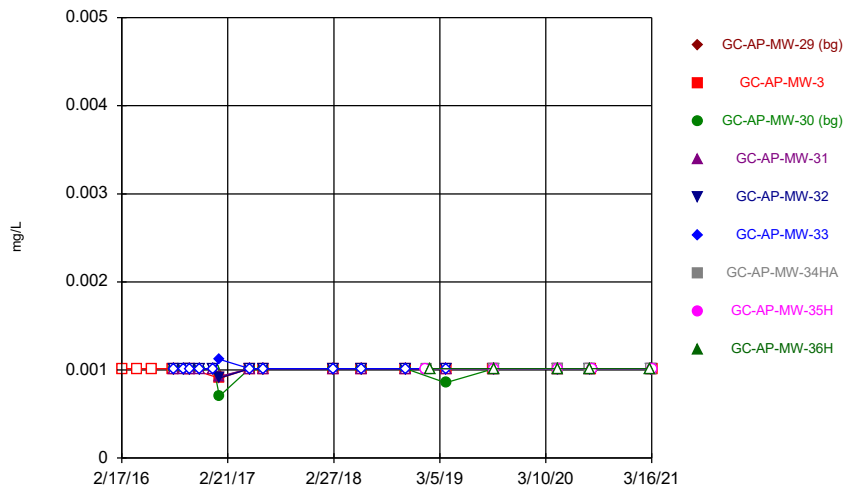
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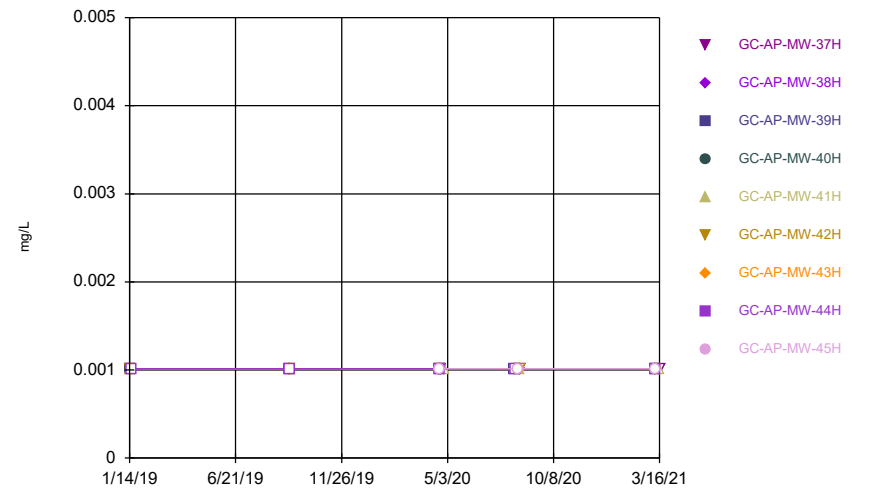
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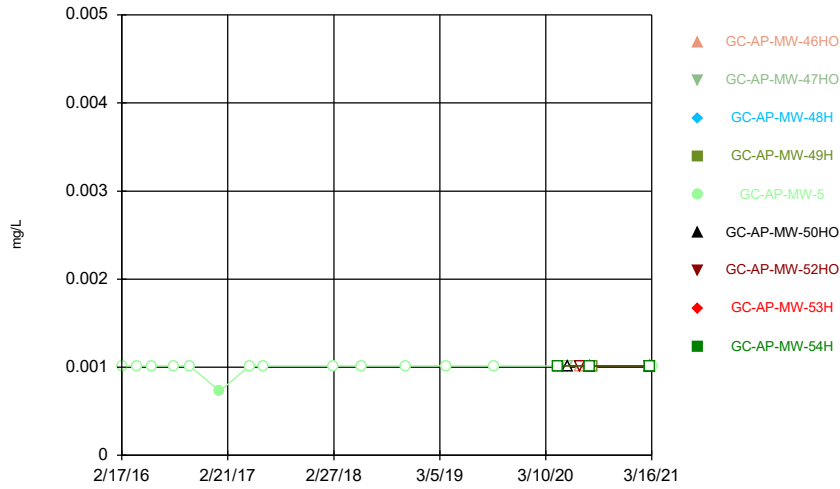
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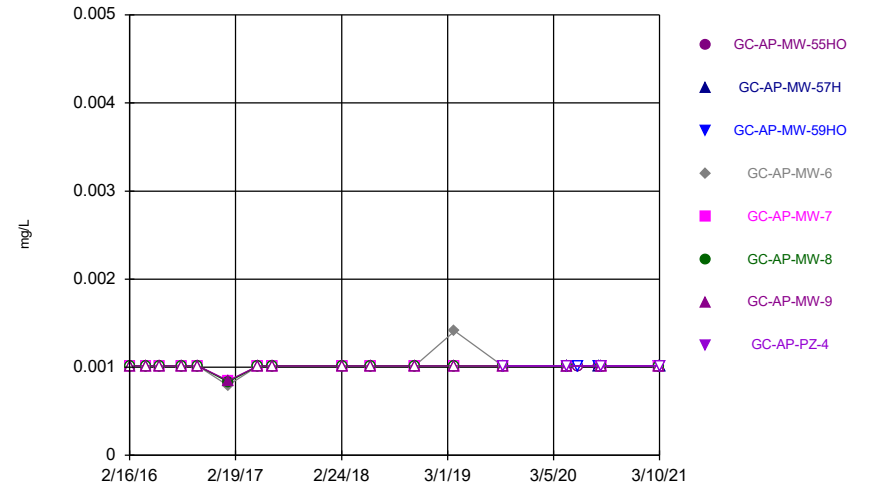
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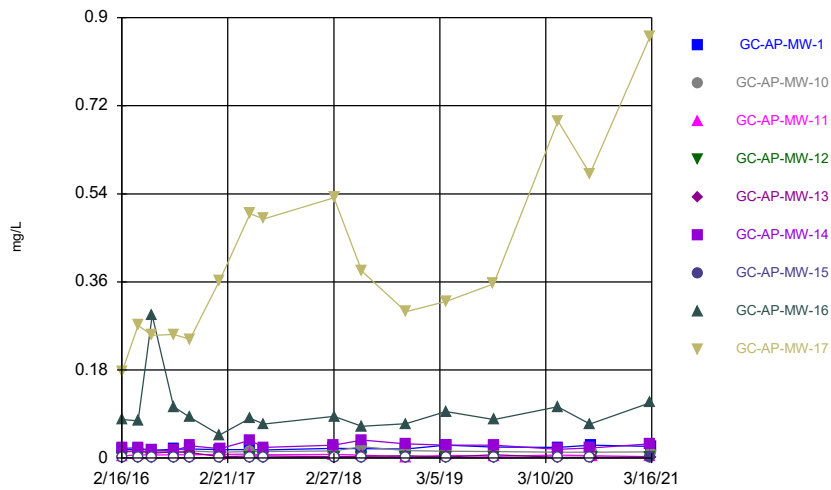
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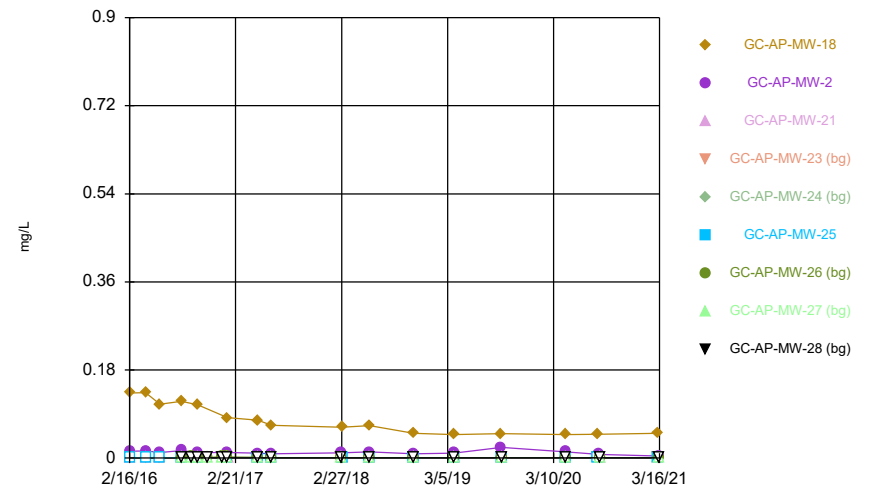
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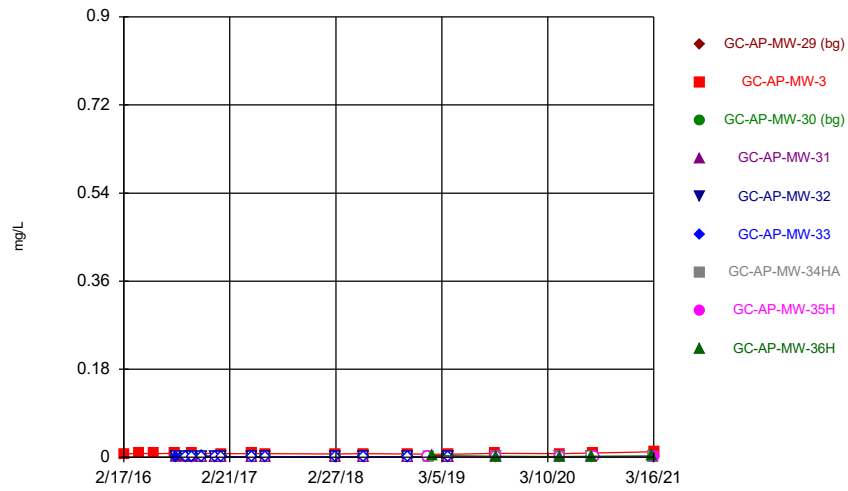
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Time Series

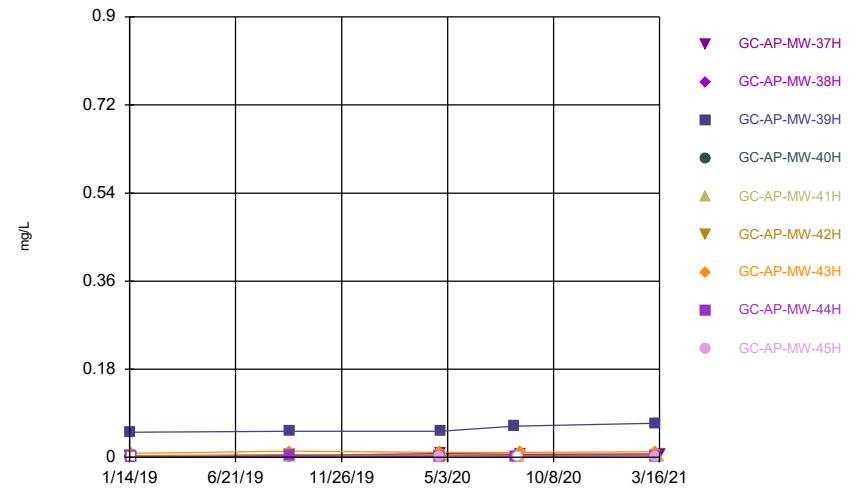


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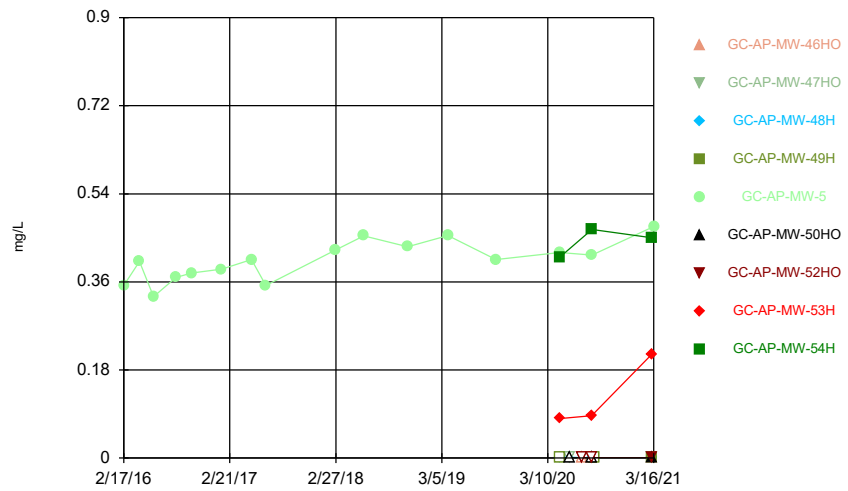
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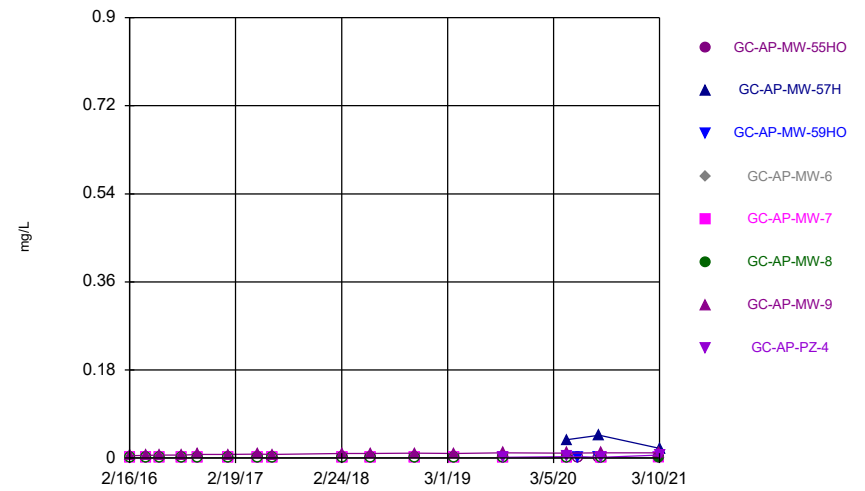
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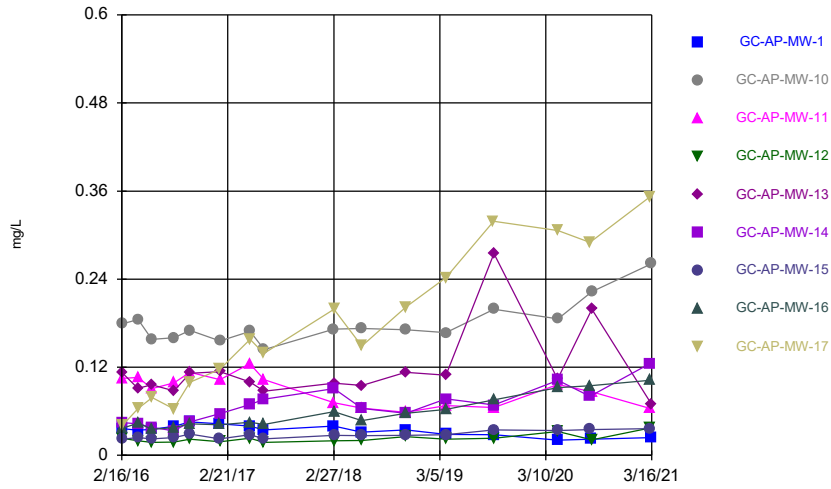
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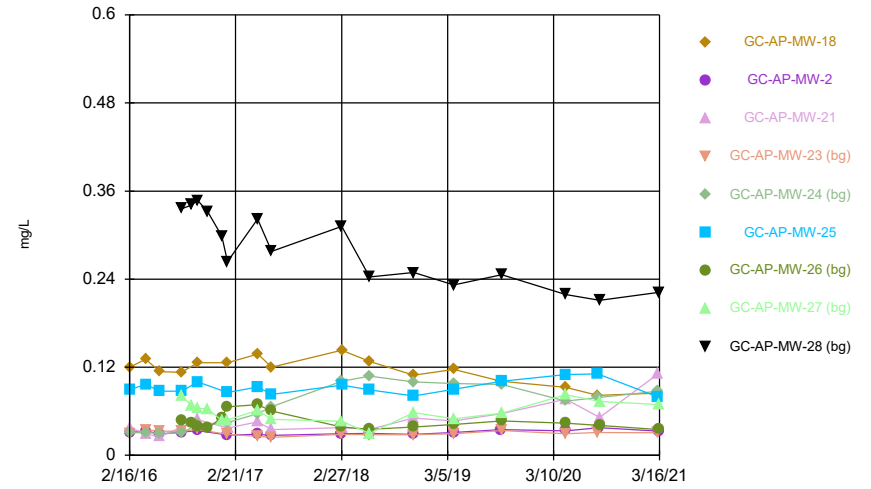
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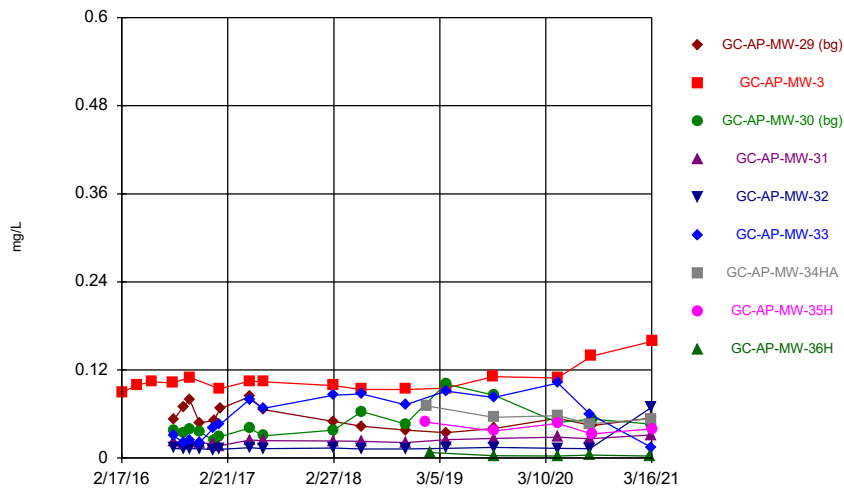
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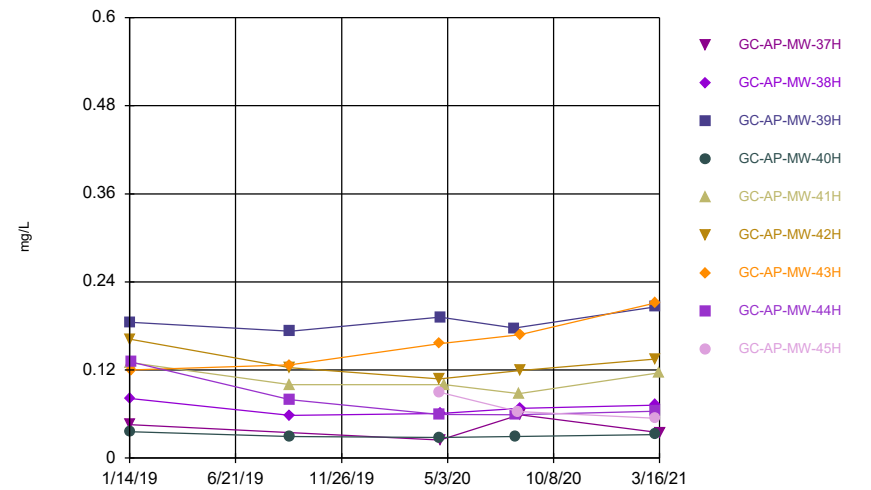
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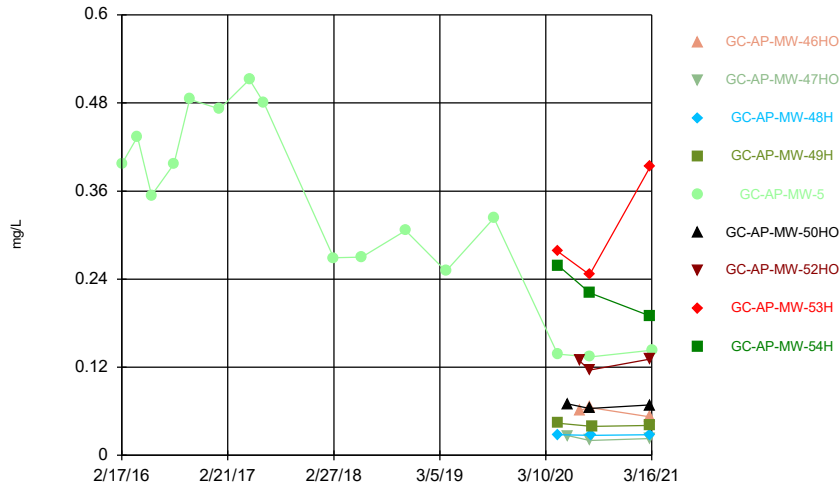
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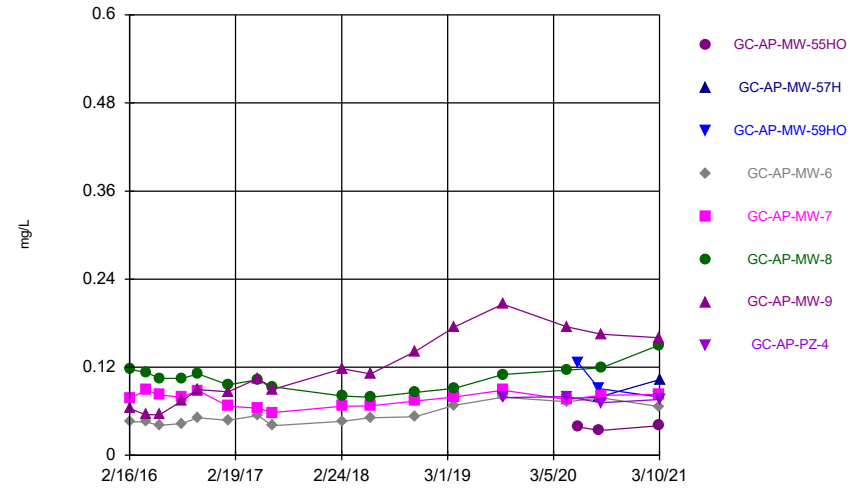
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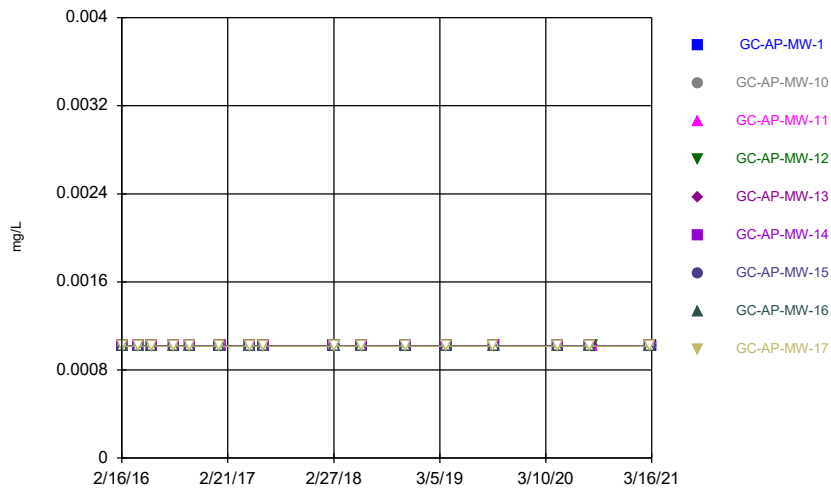
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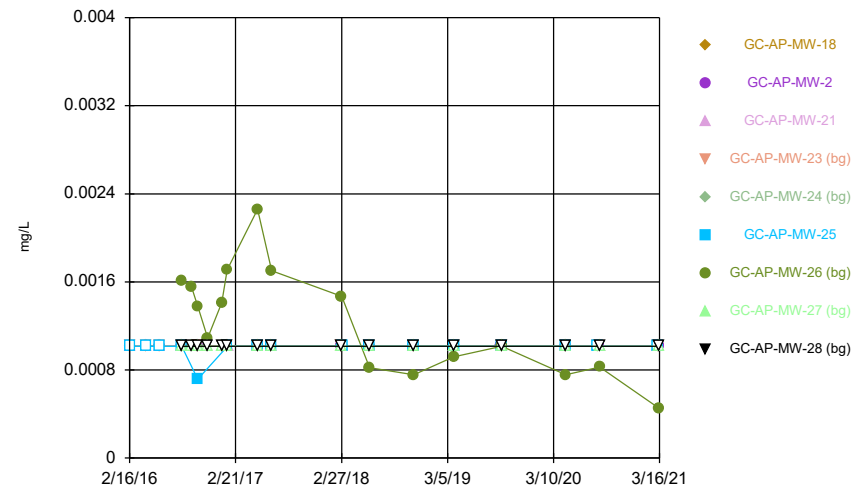
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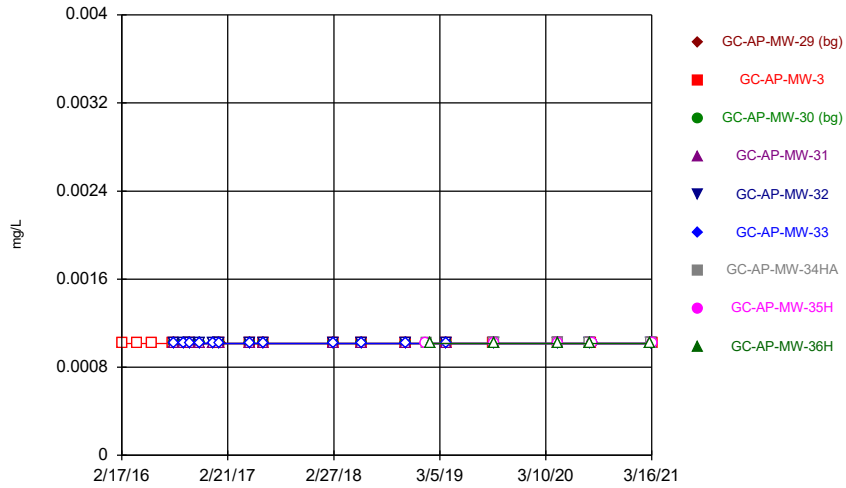
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Time Series

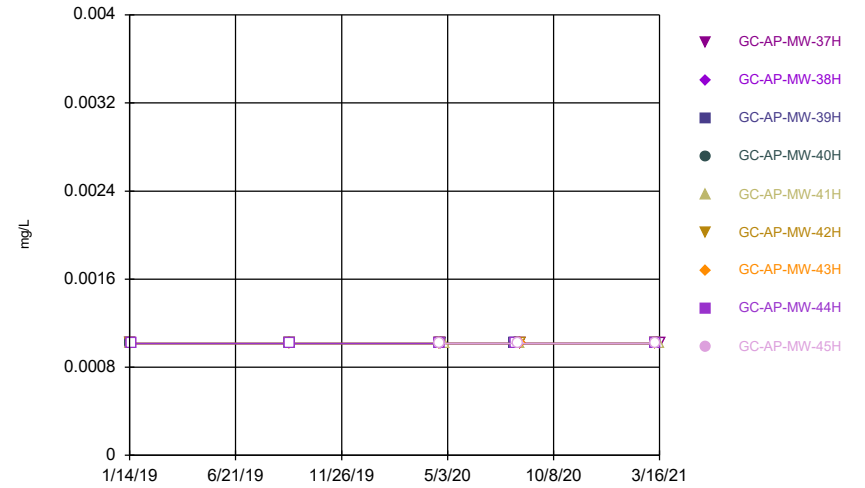


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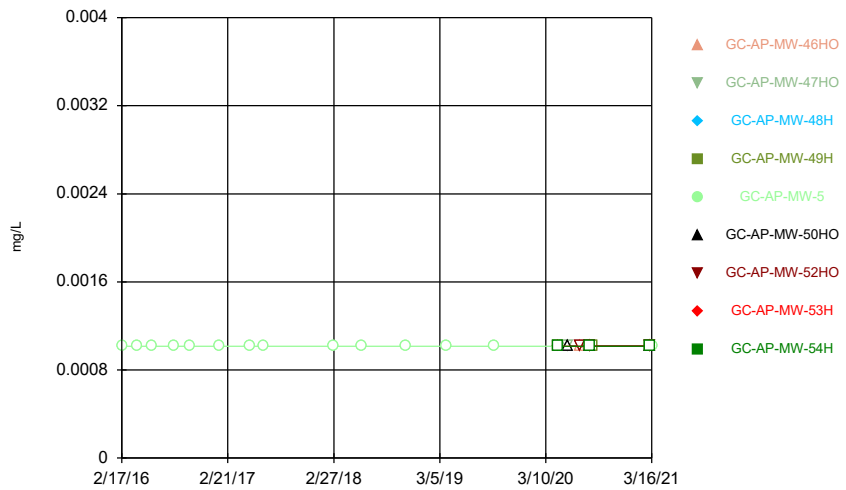
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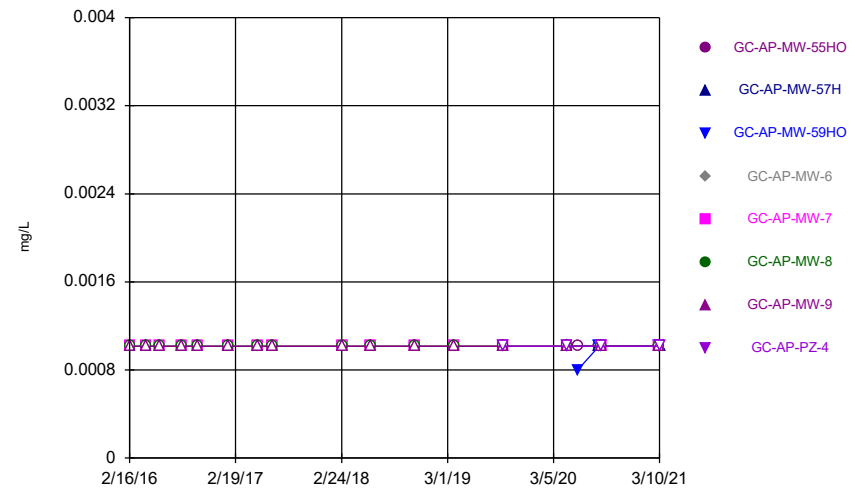
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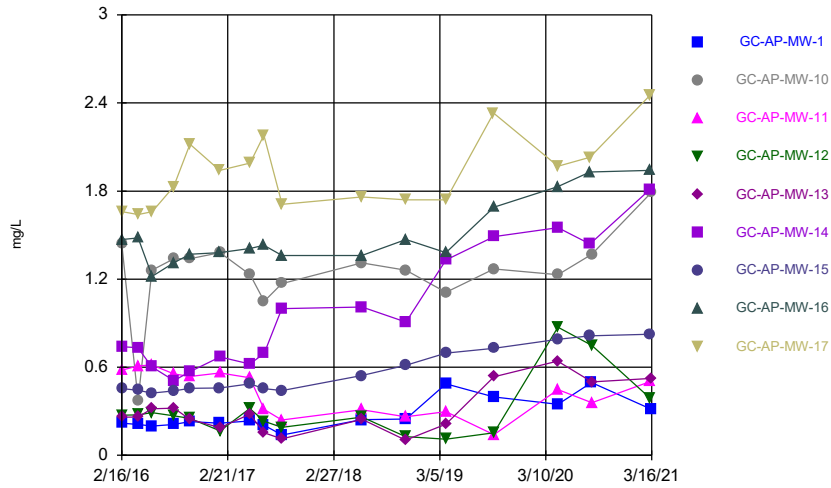
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Time Series



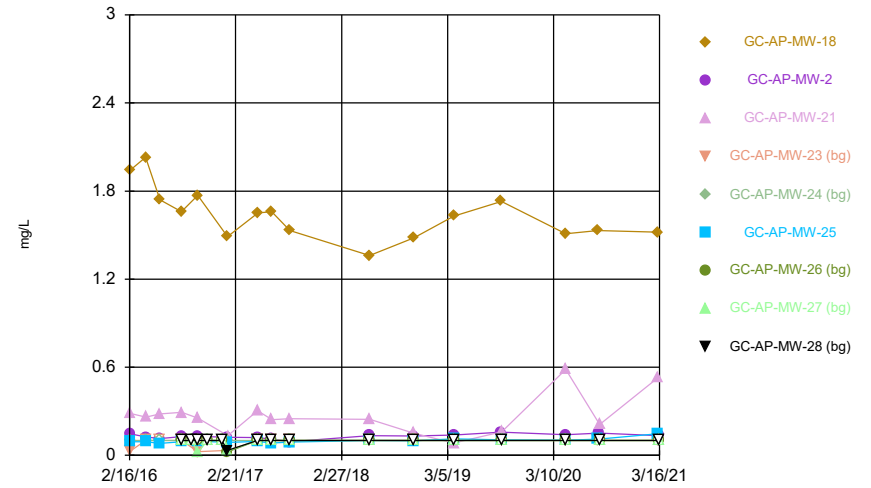
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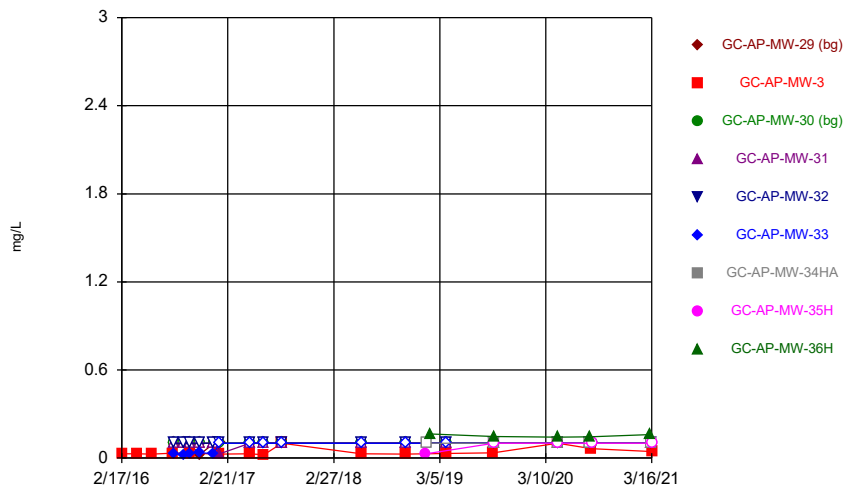
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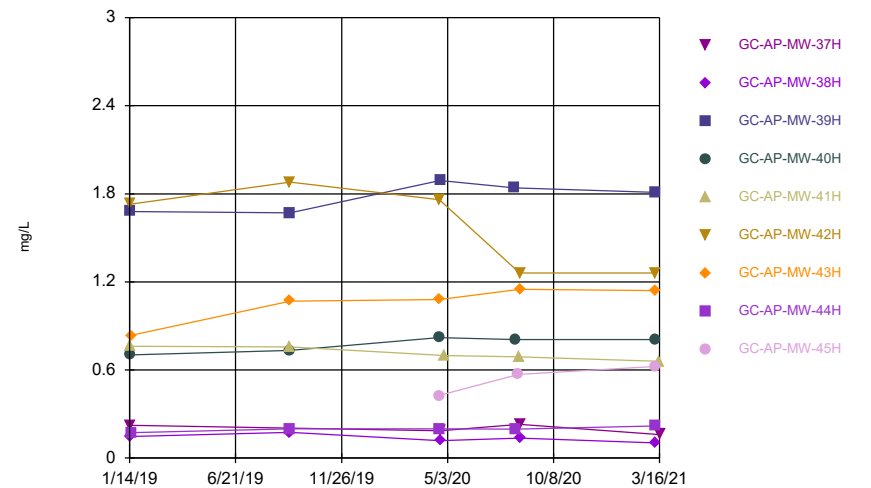
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Time Series



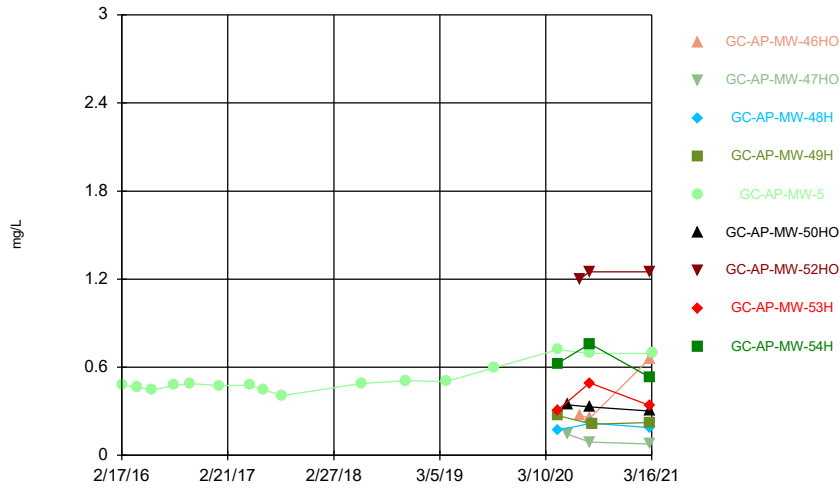
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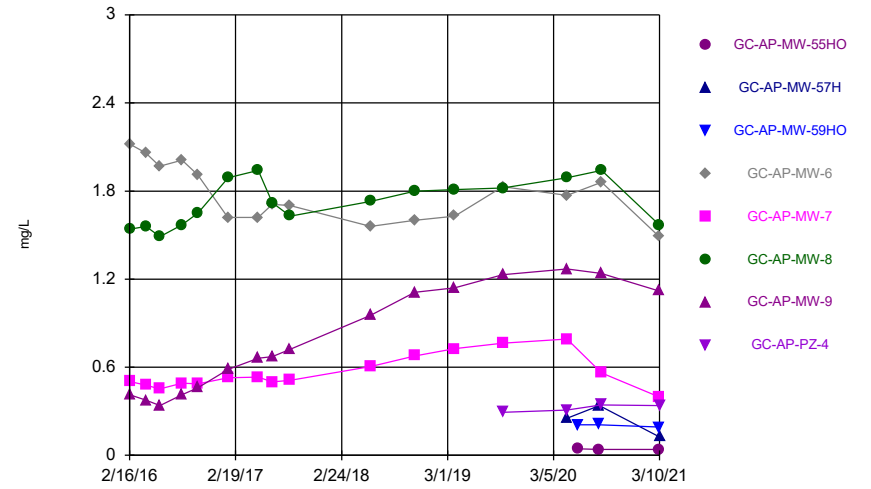
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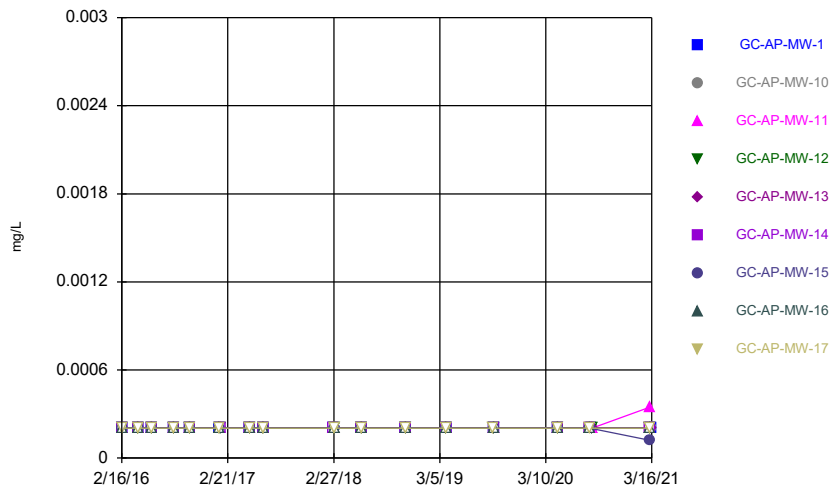
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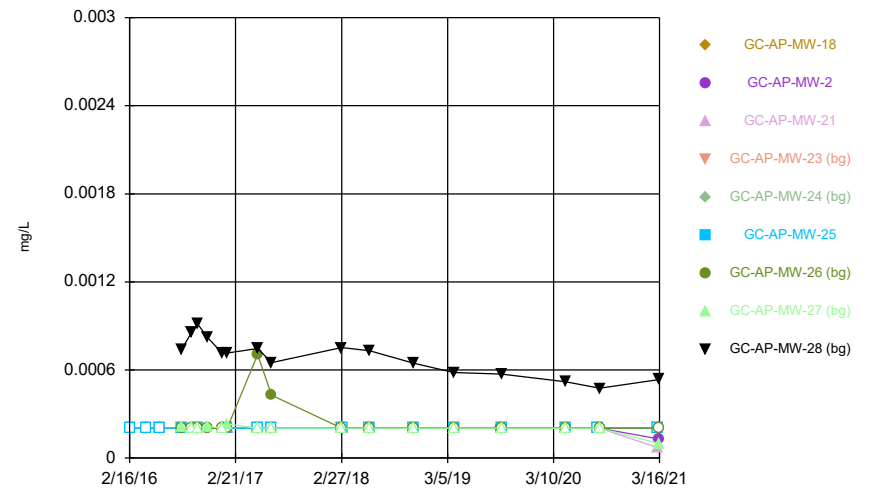
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Time Series



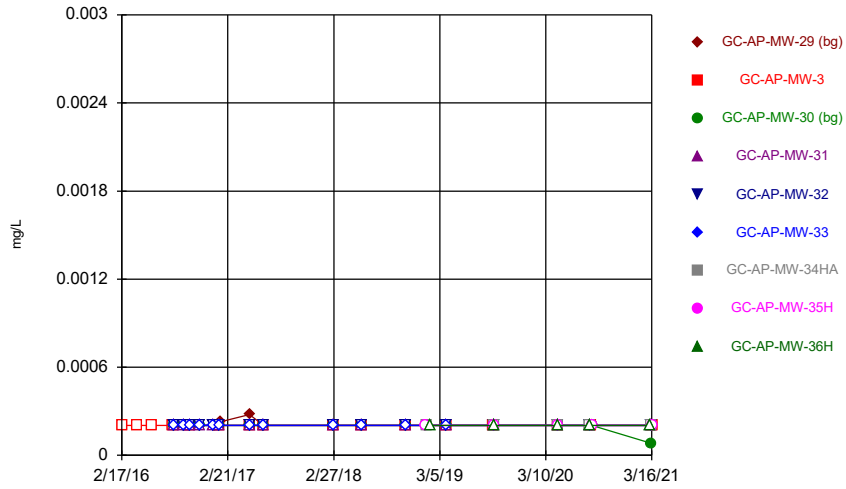
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



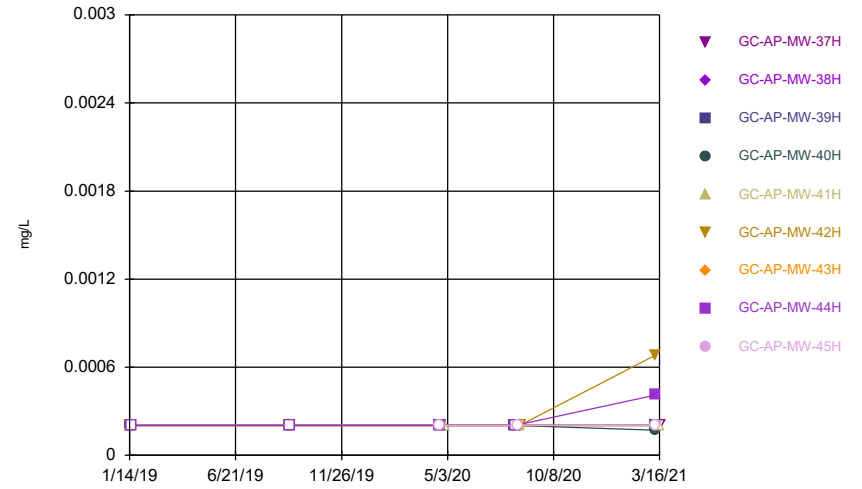
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Time Series



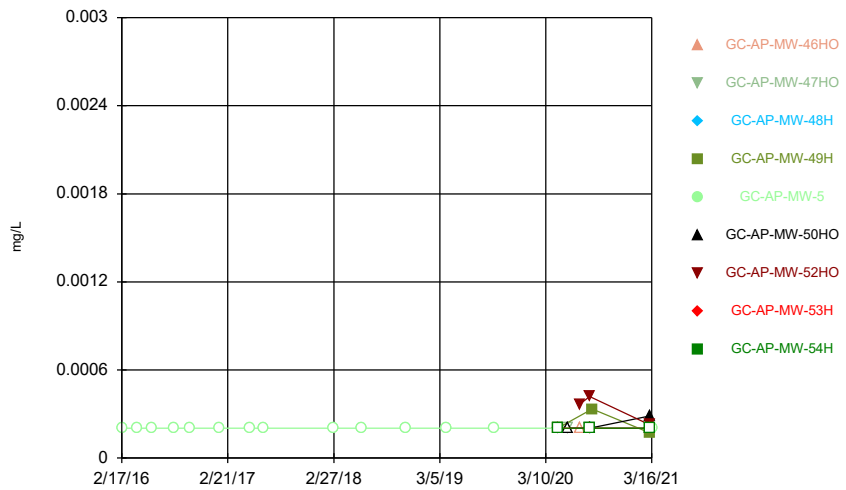
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Time Series



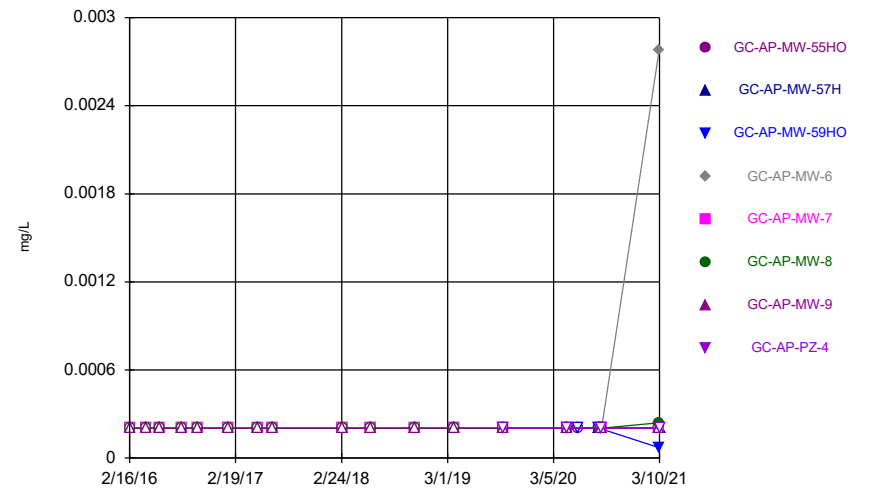
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Time Series



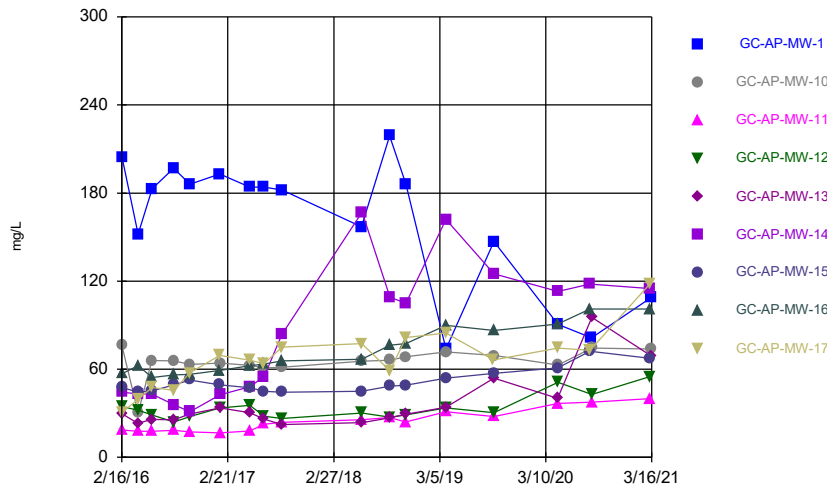
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Time Series



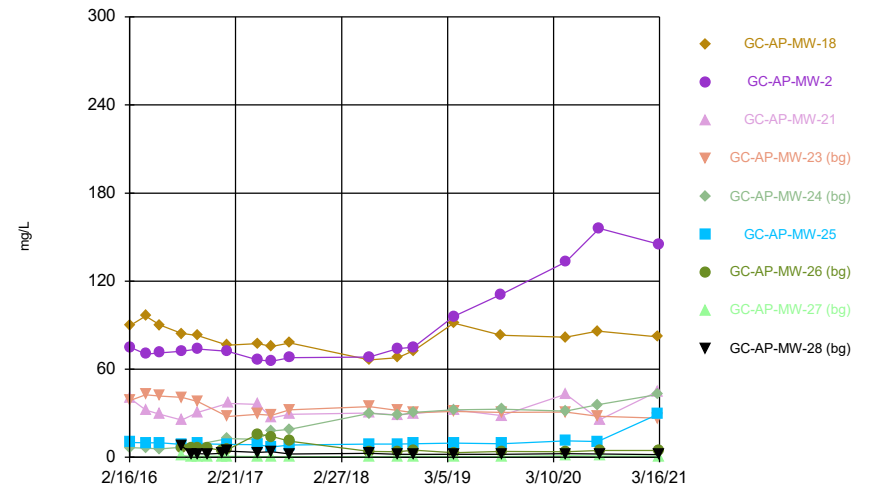
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Time Series



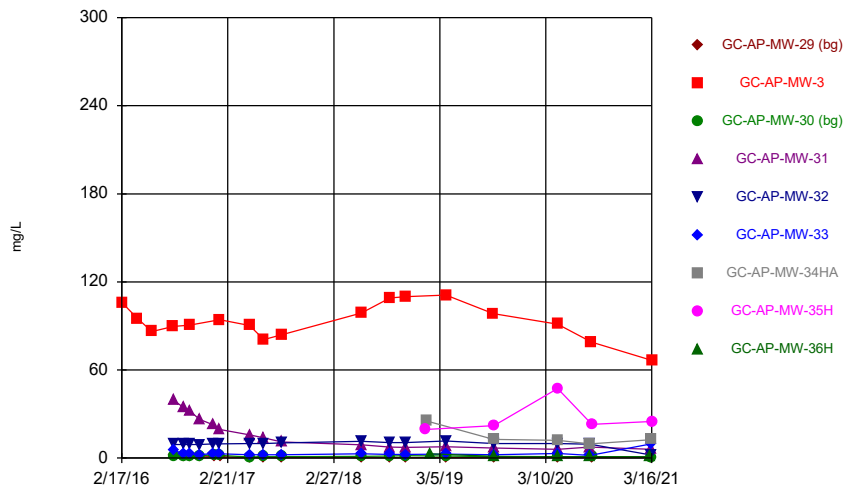
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Time Series



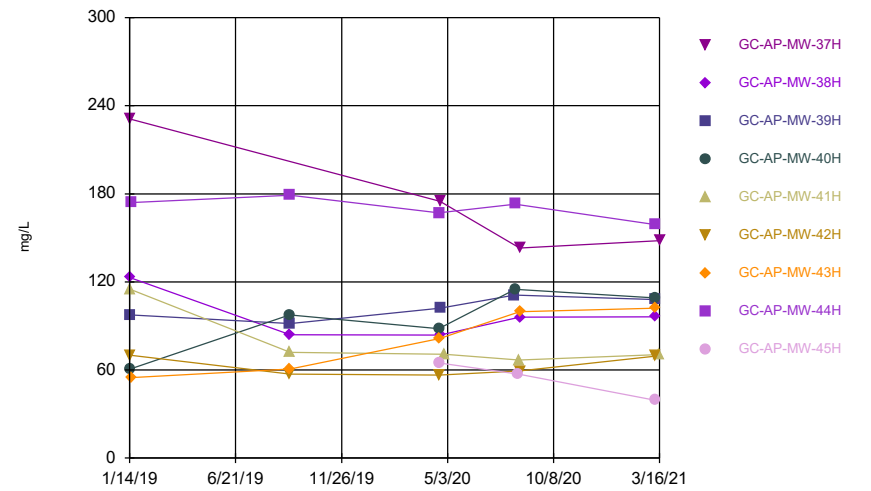
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Time Series



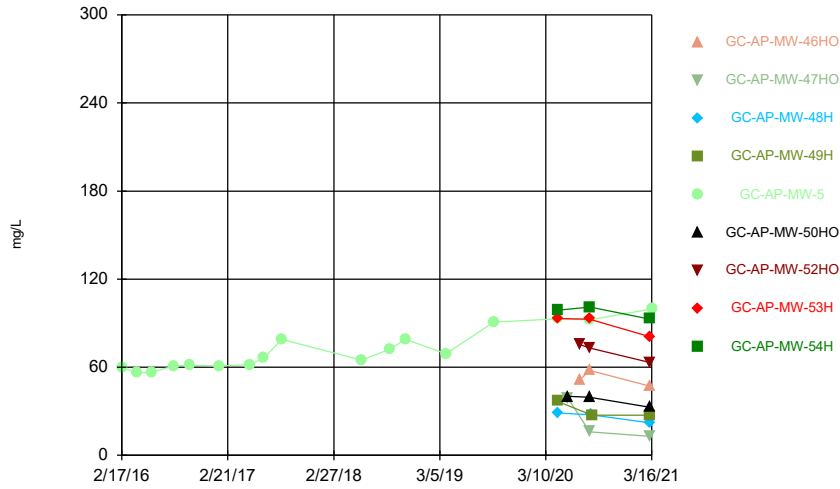
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Time Series



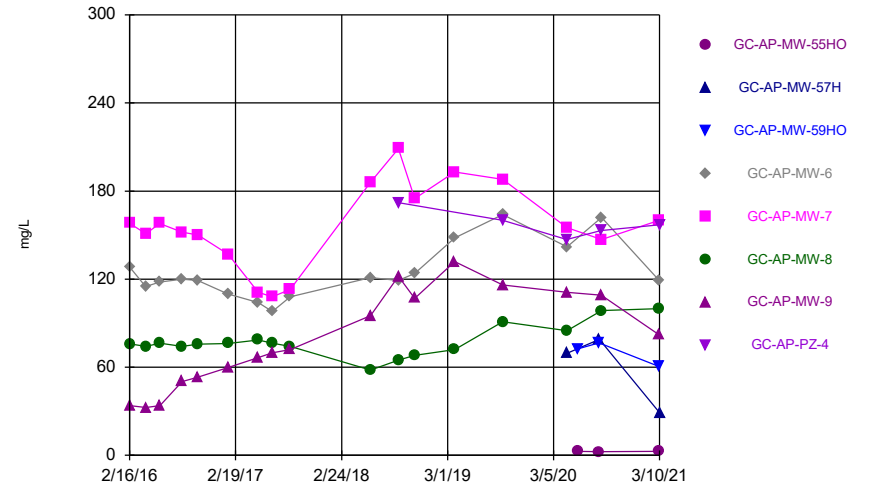
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Time Series



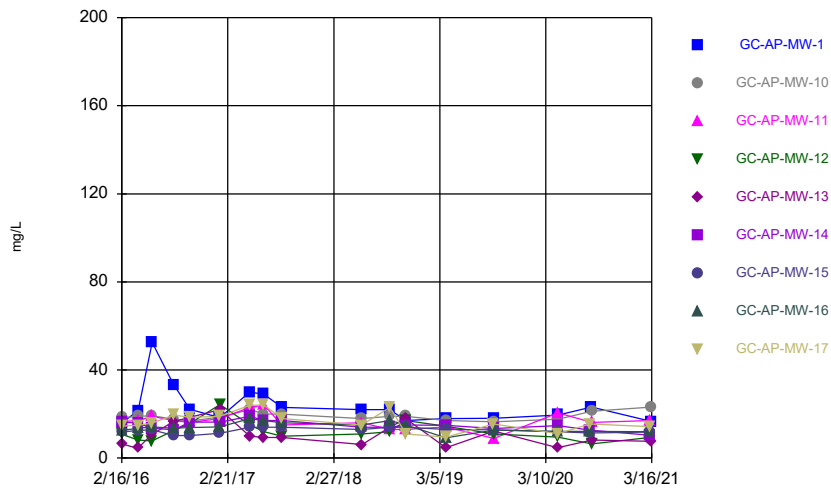
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Time Series



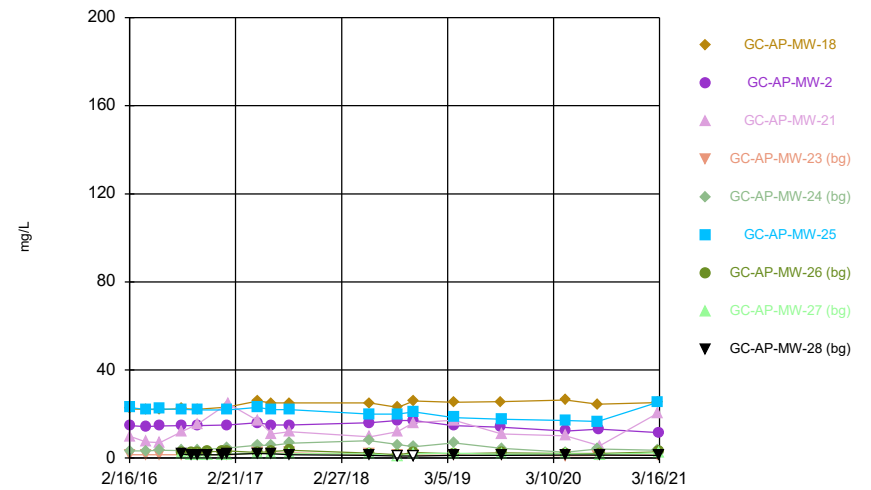
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Time Series



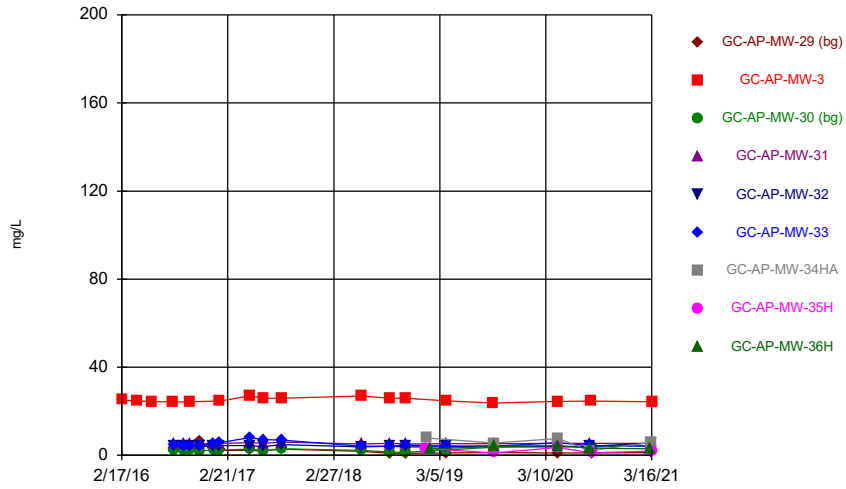
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



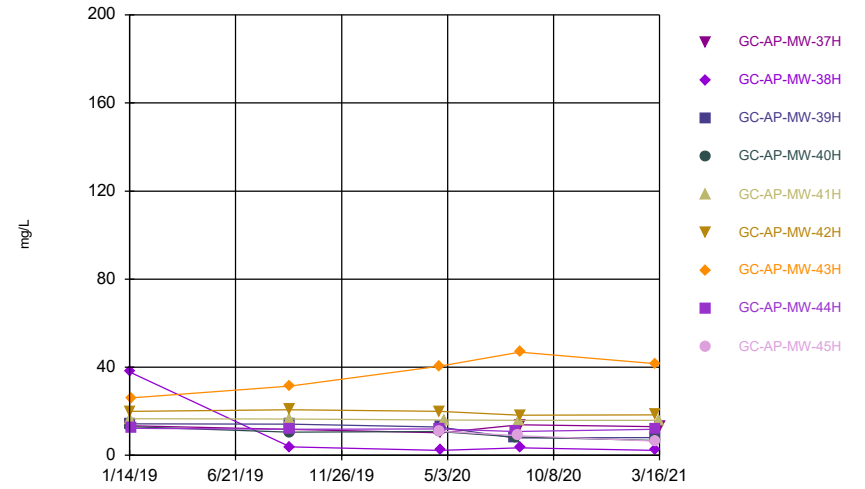
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Time Series



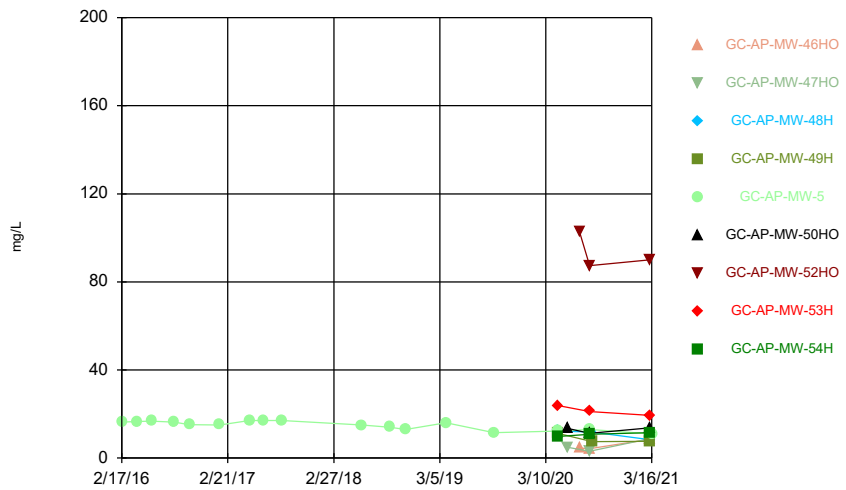
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Time Series



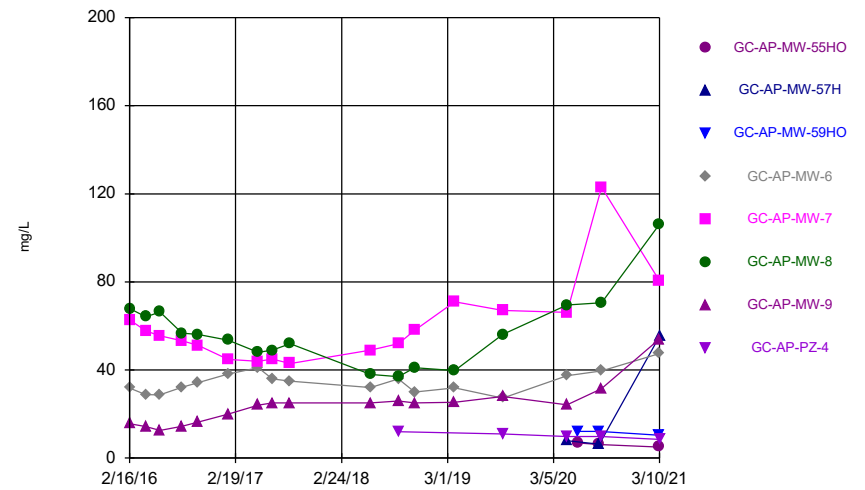
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Time Series



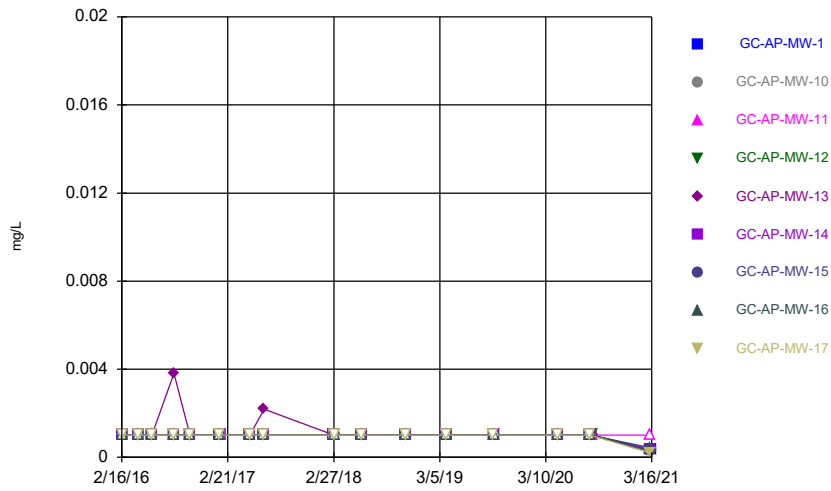
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Time Series



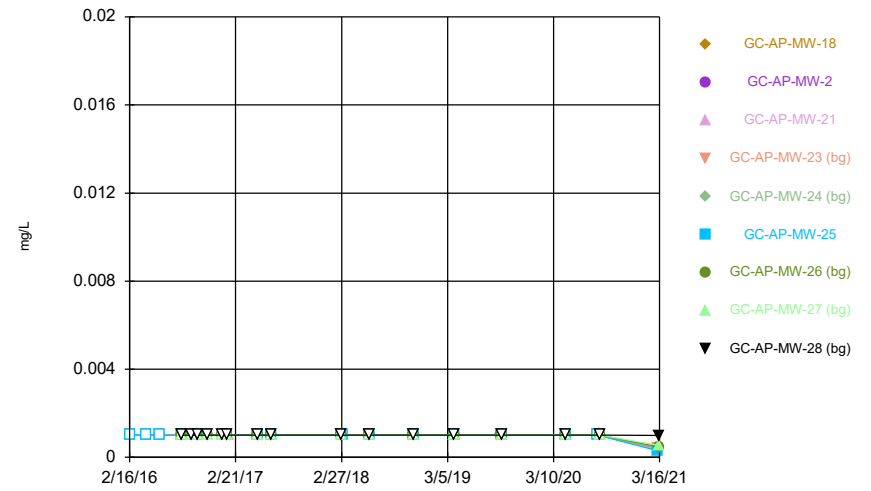
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Time Series



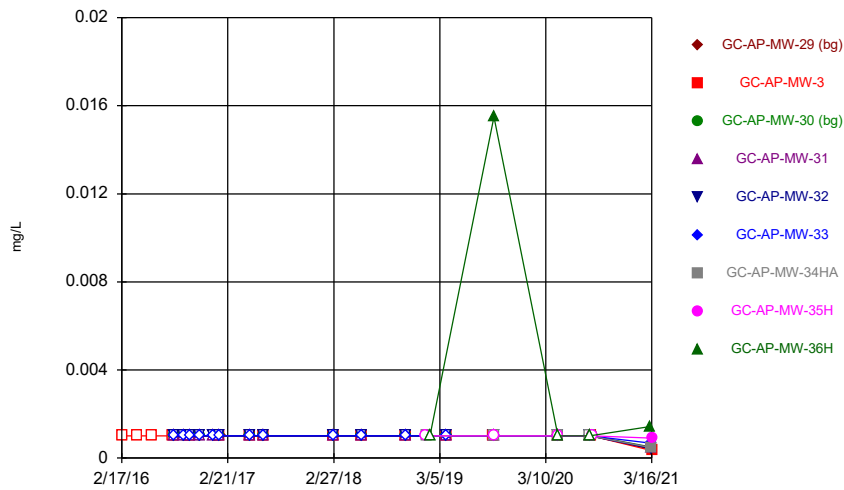
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



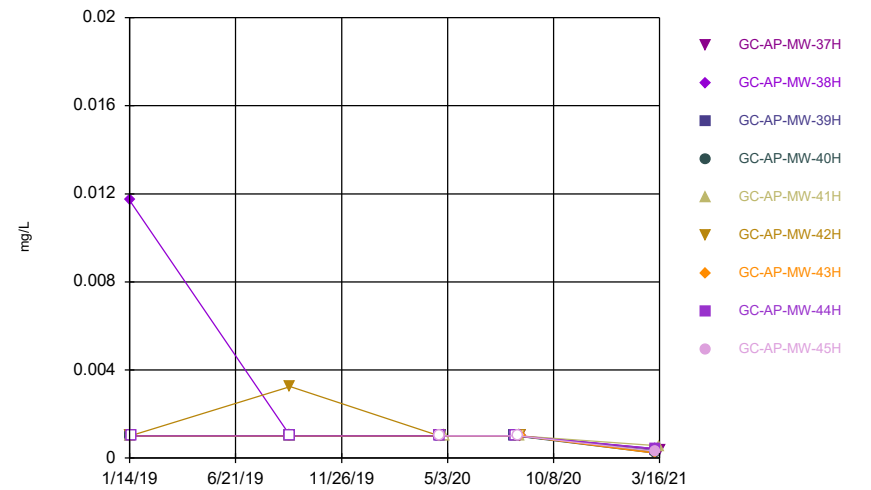
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



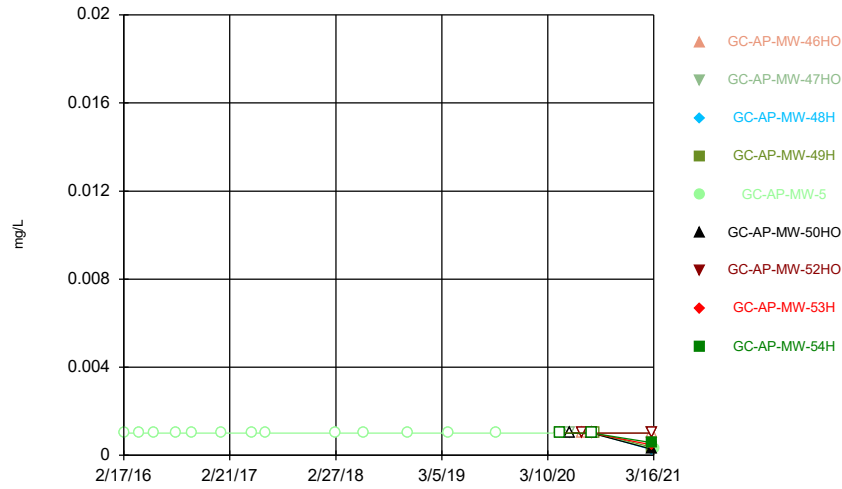
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Time Series

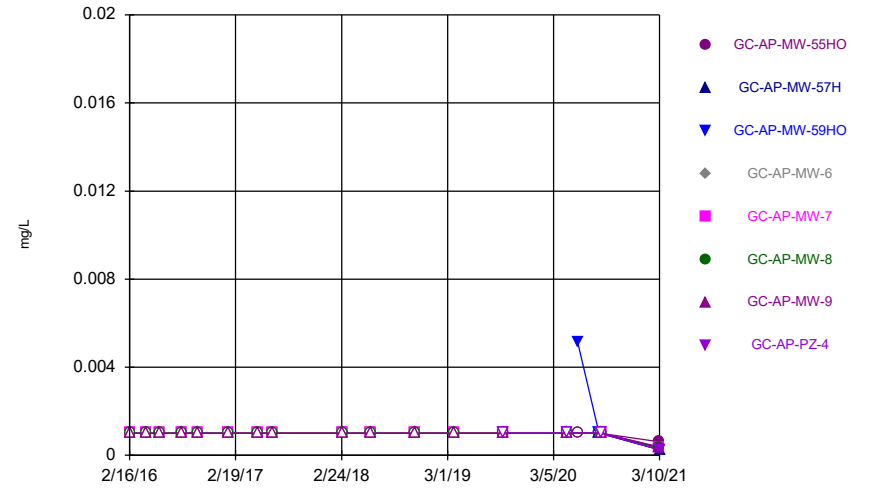


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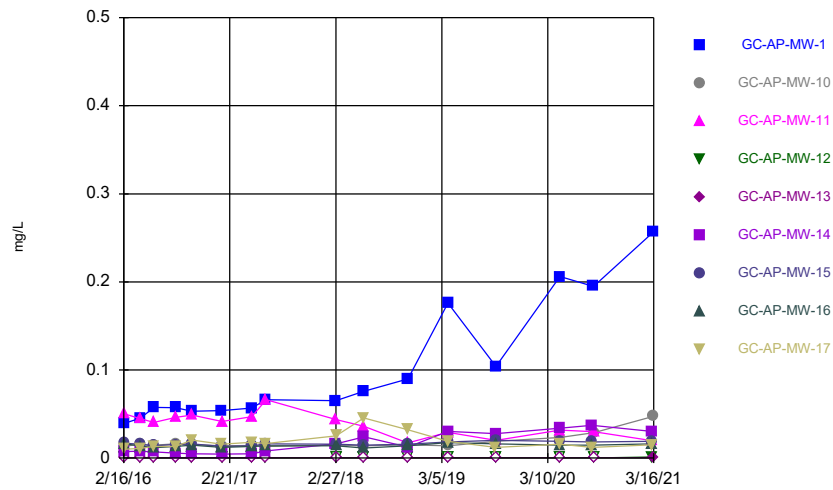
Time Series



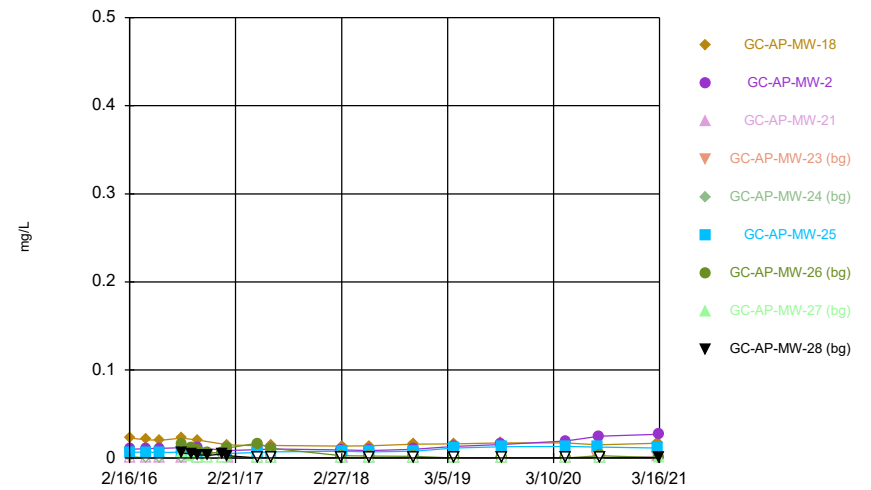
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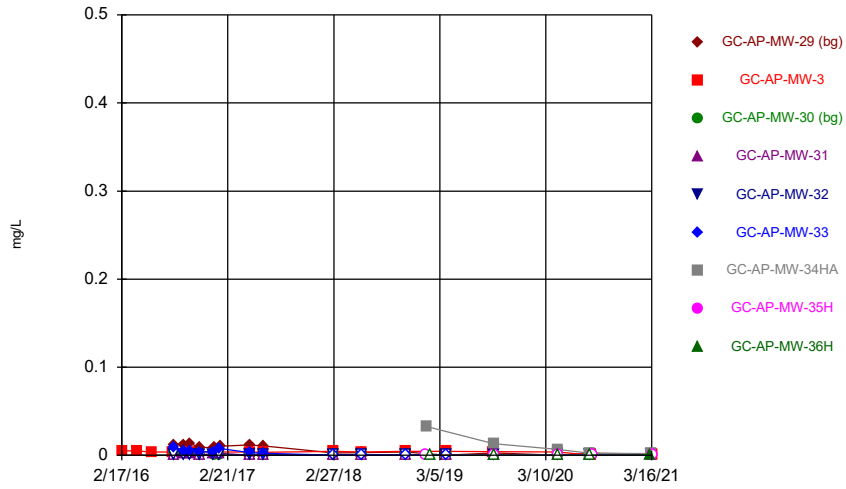
Time Series



Time Series

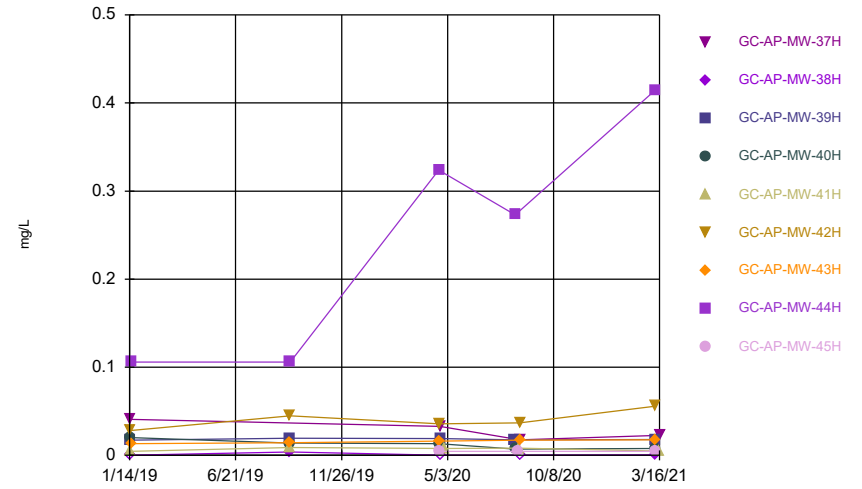


Time Series



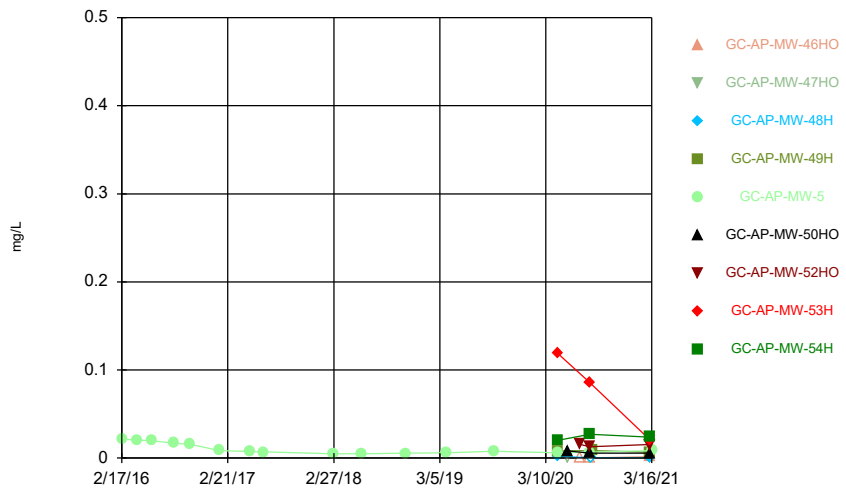
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



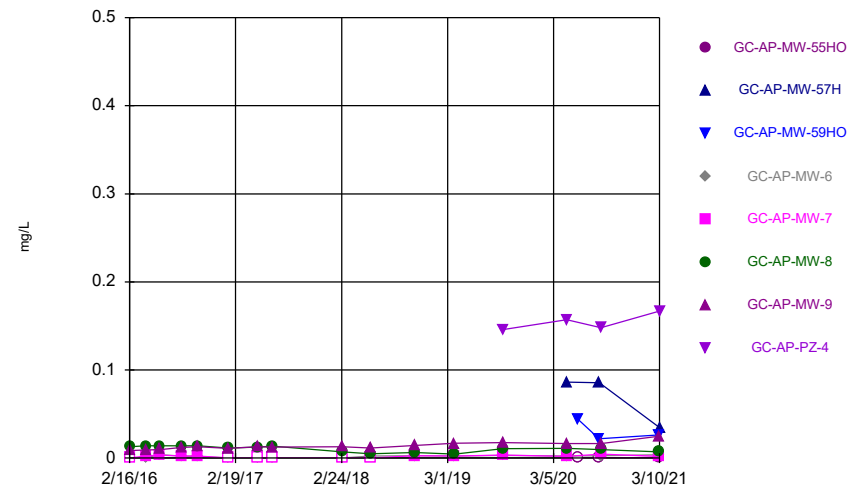
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Time Series



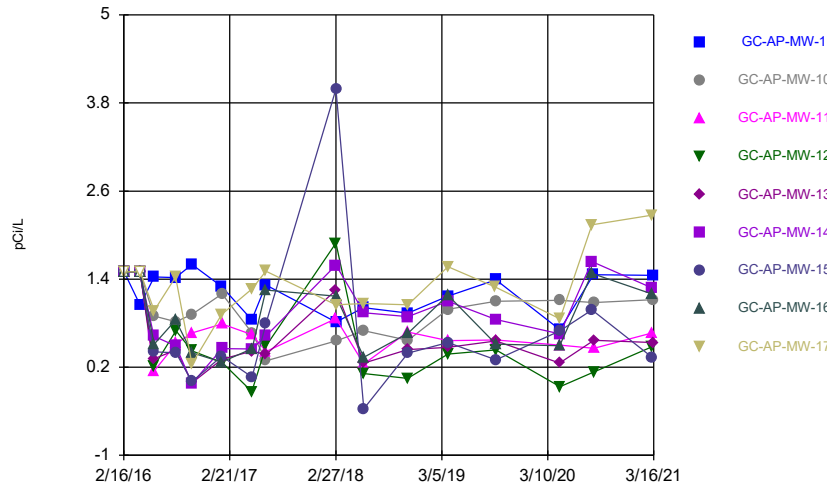
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Time Series



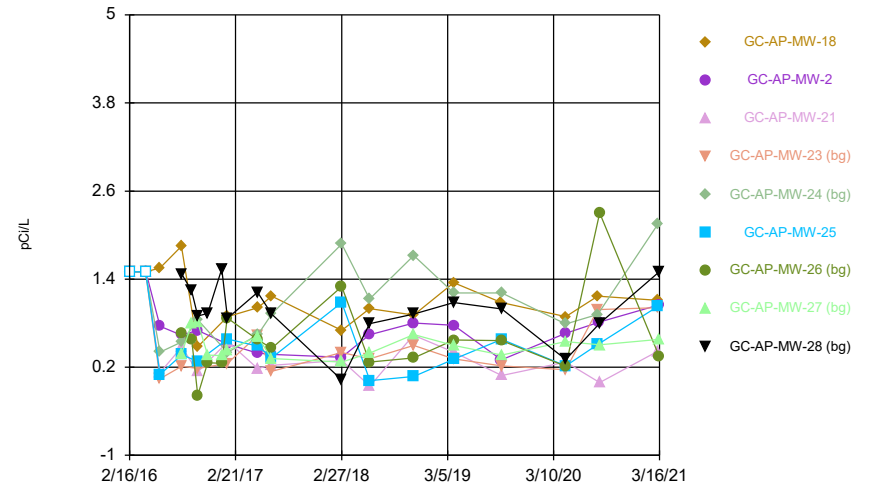
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Time Series



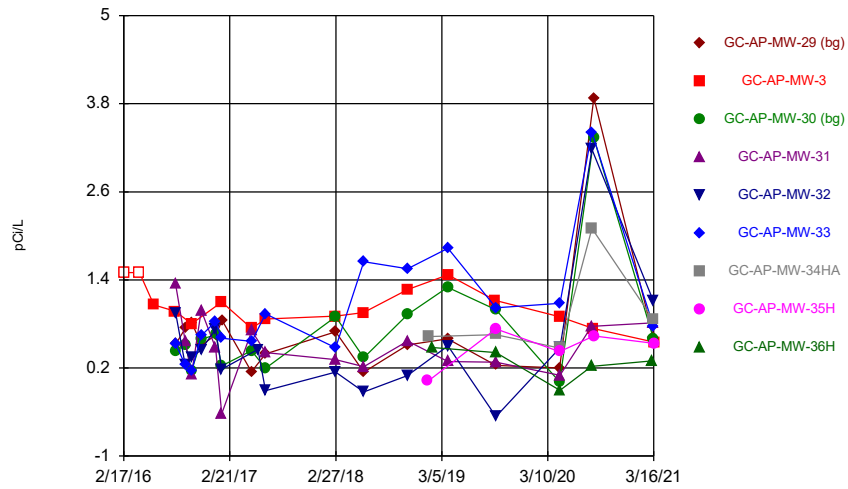
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



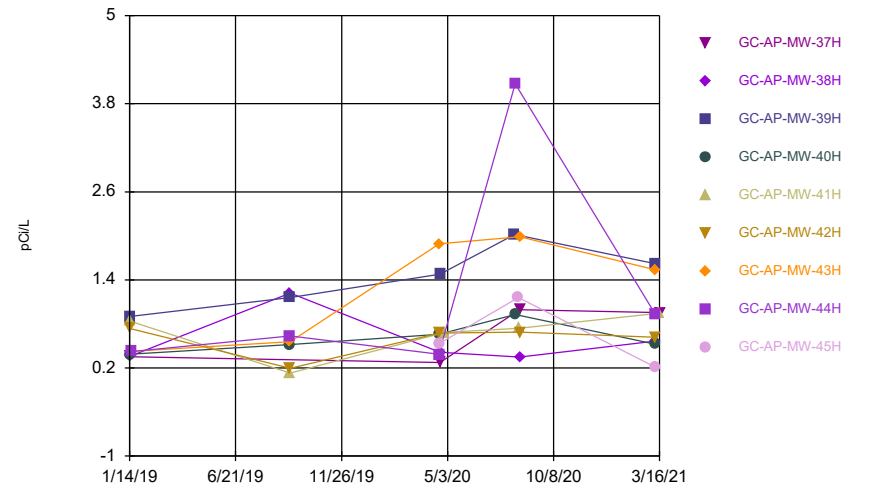
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Time Series



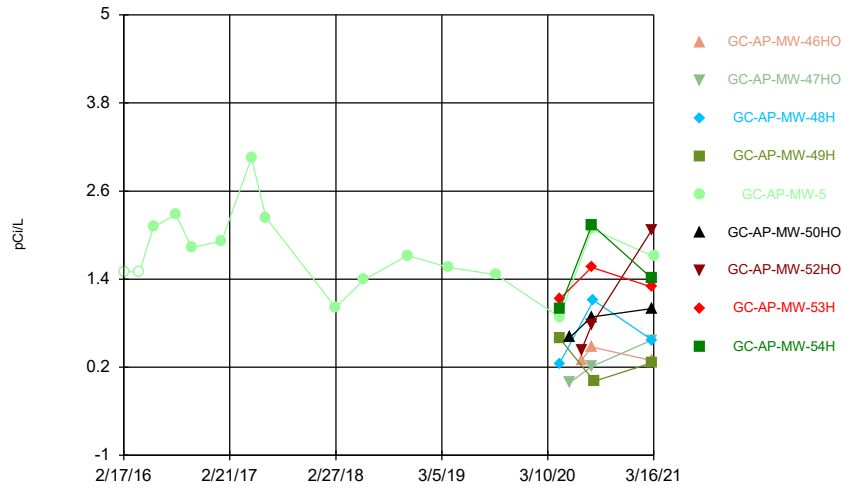
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Time Series



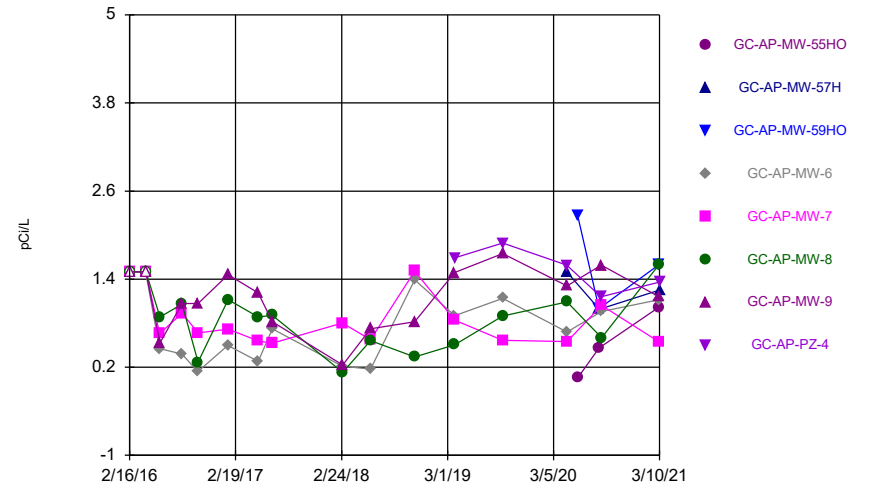
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Time Series



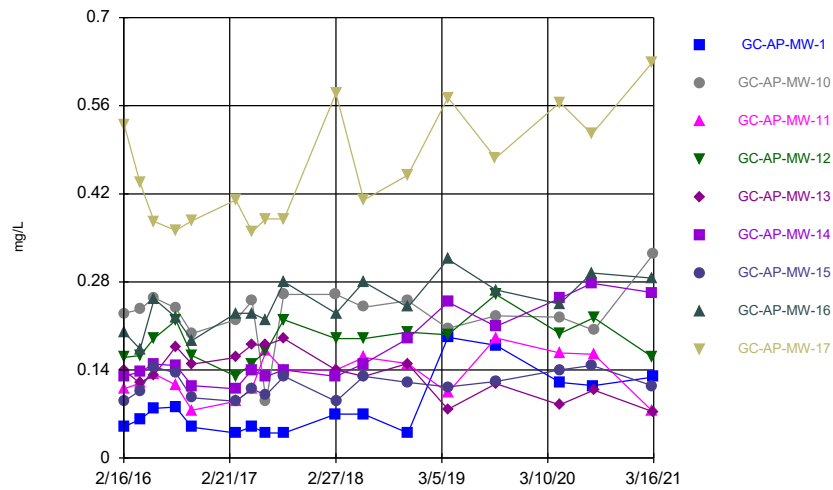
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Time Series



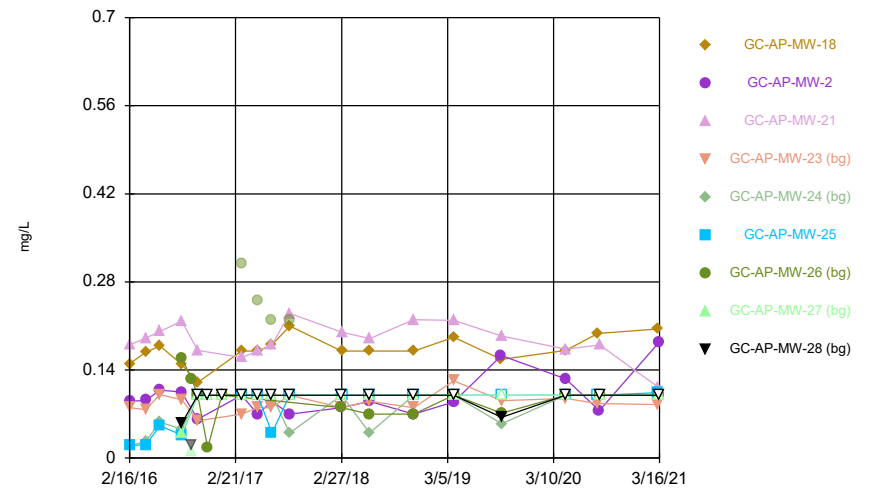
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Time Series



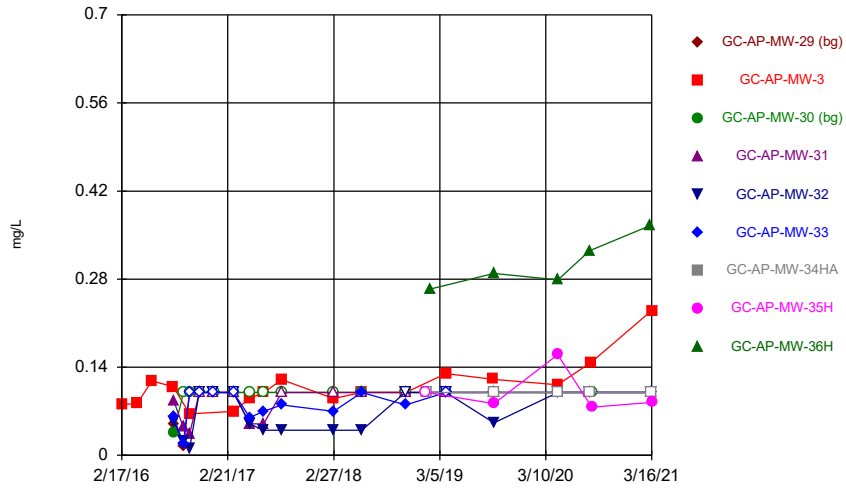
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Time Series



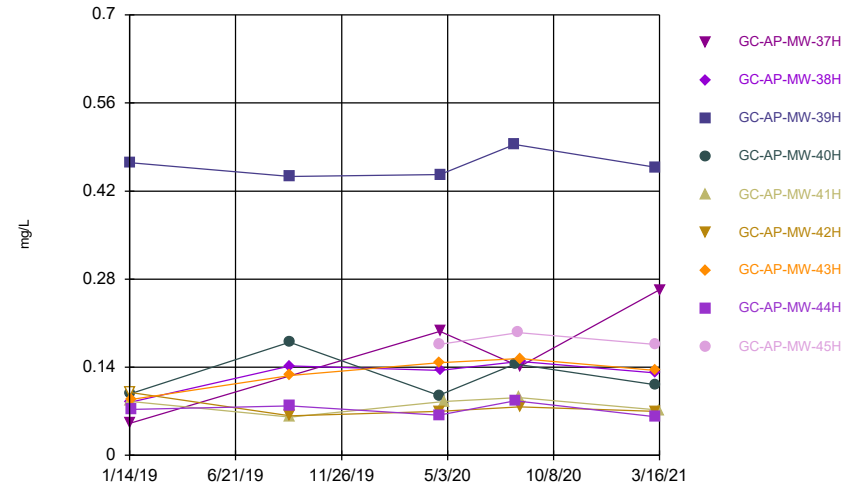
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Time Series



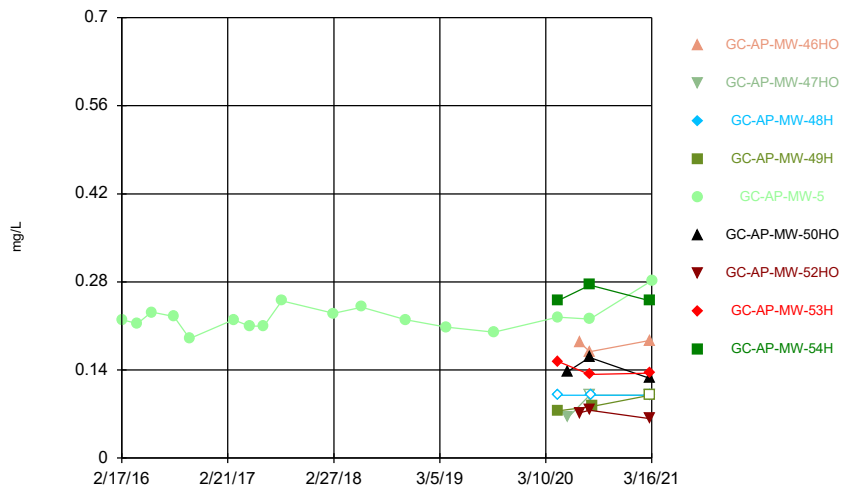
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Time Series



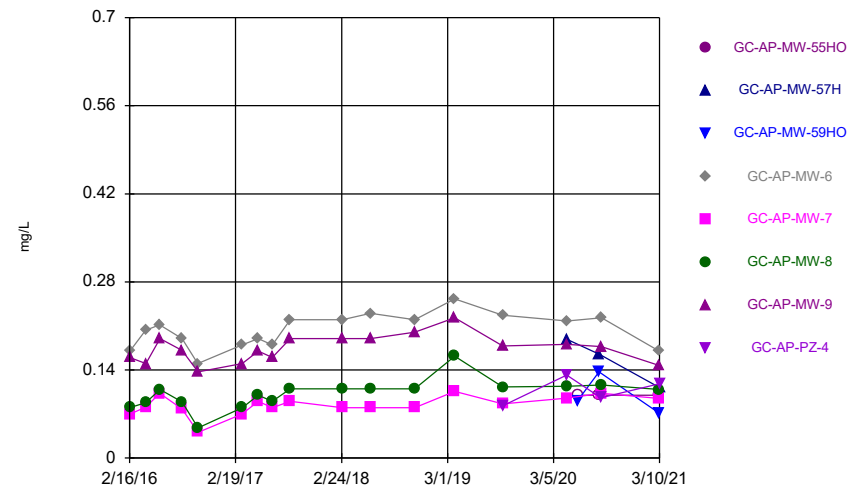
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Time Series



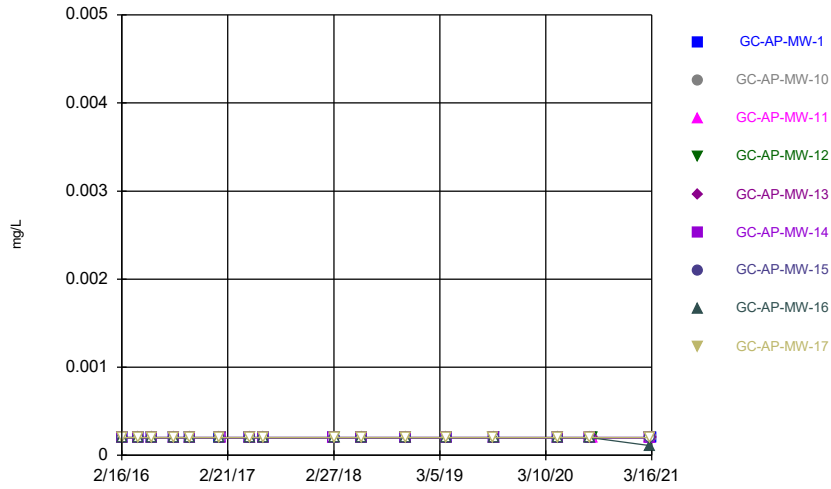
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Time Series



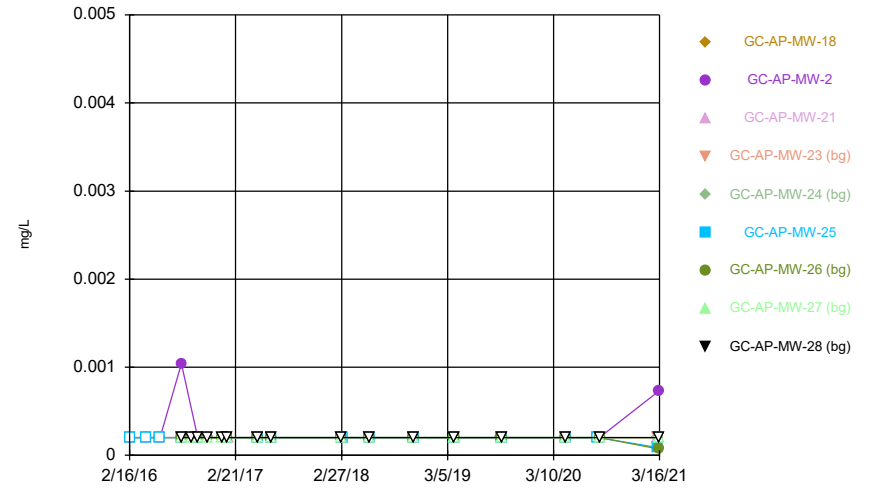
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Time Series



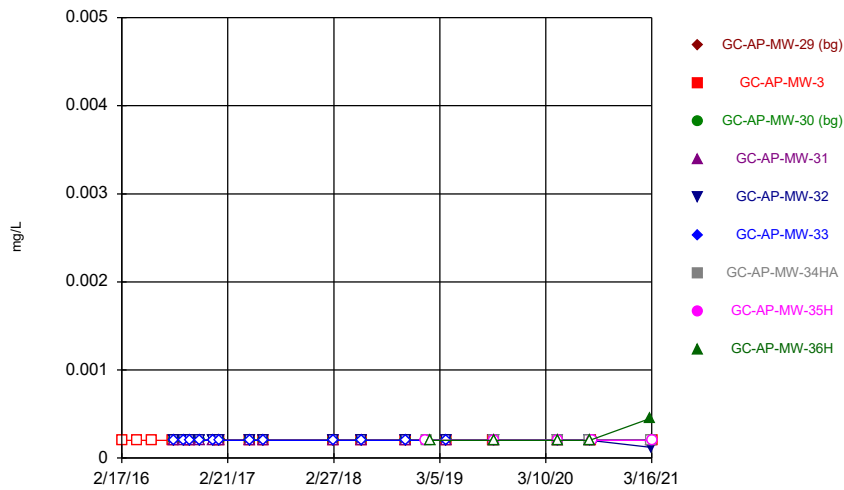
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Time Series



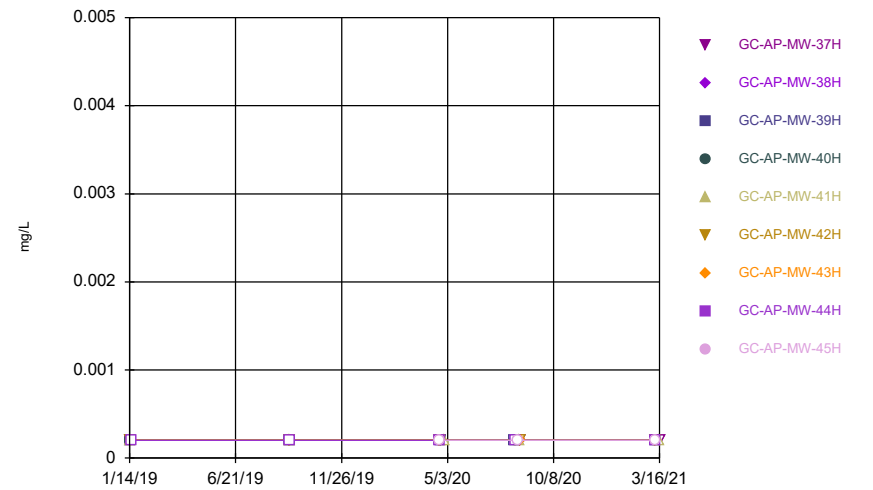
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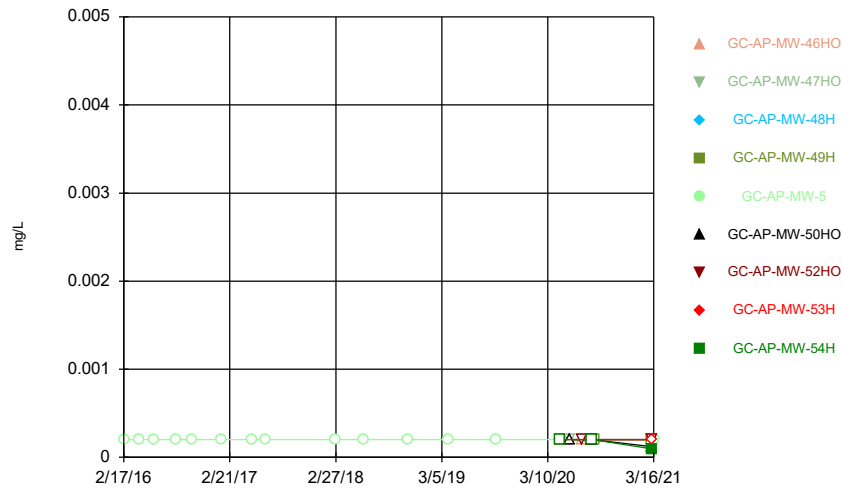
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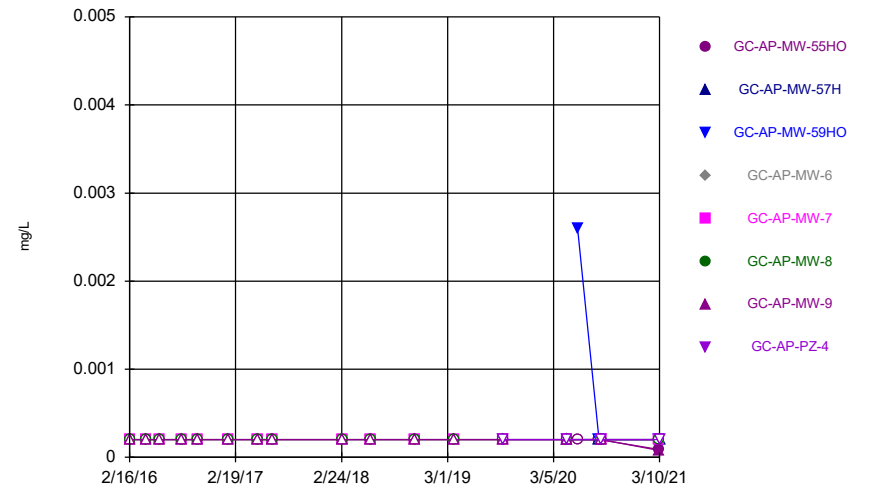


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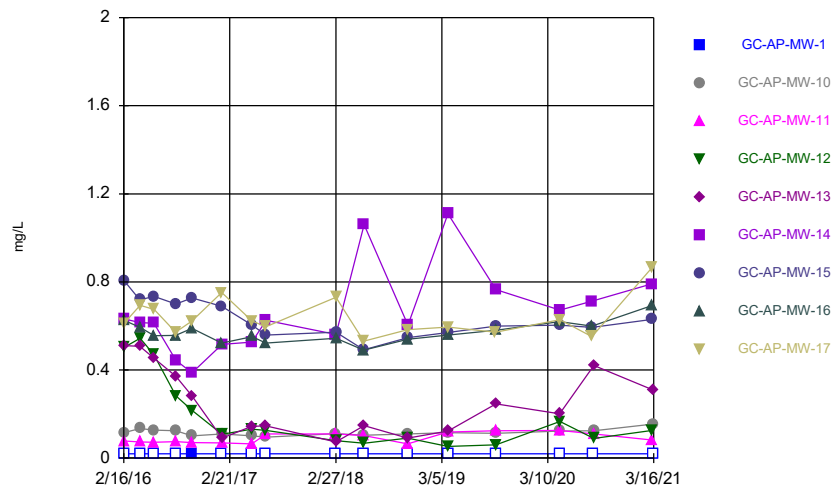
Time Series



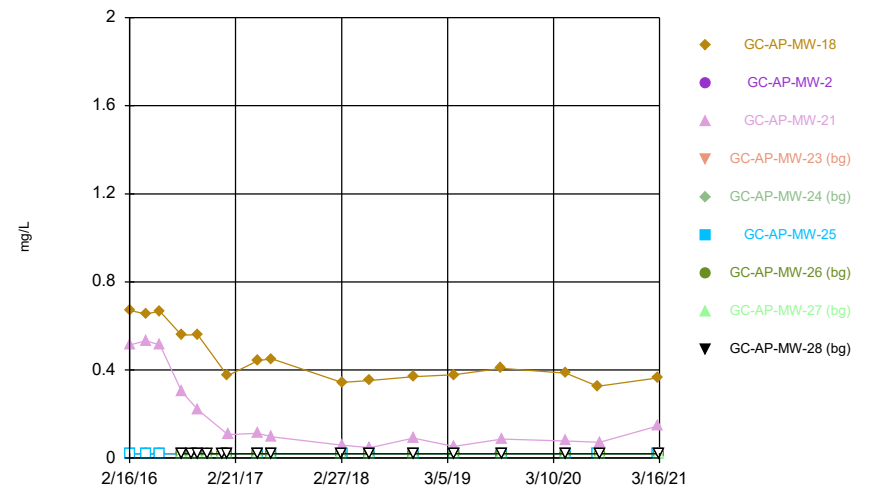
Time Series



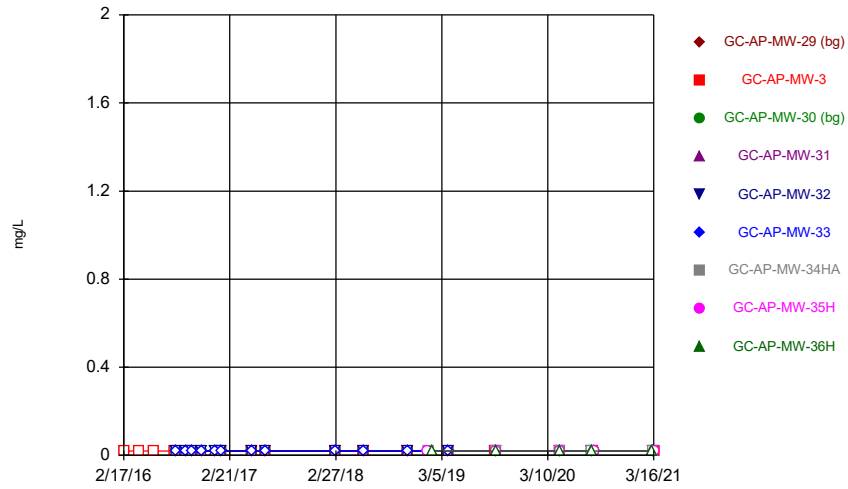
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Time Series

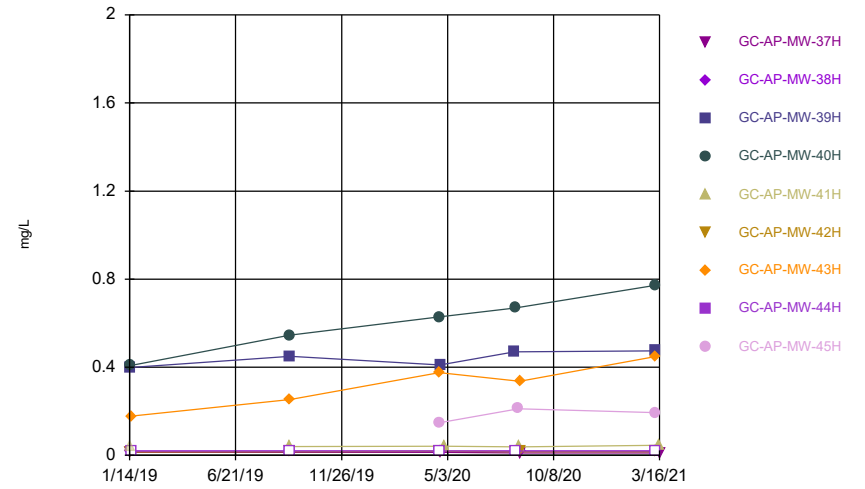


Time Series



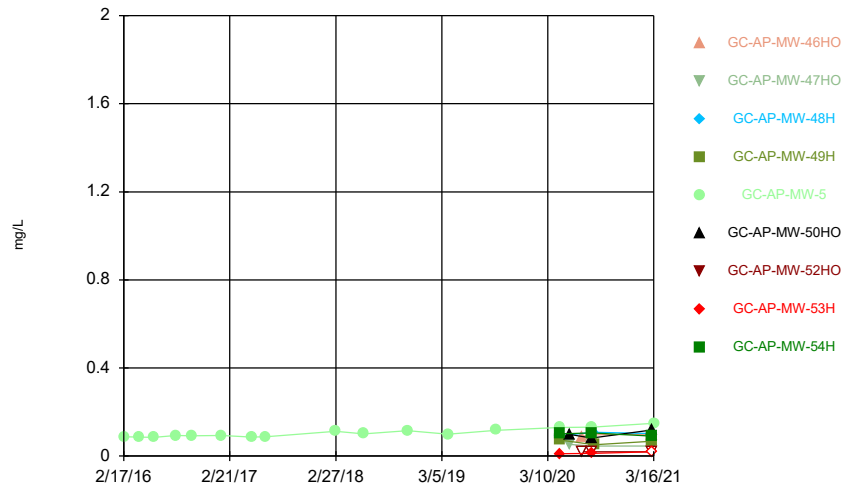
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Time Series



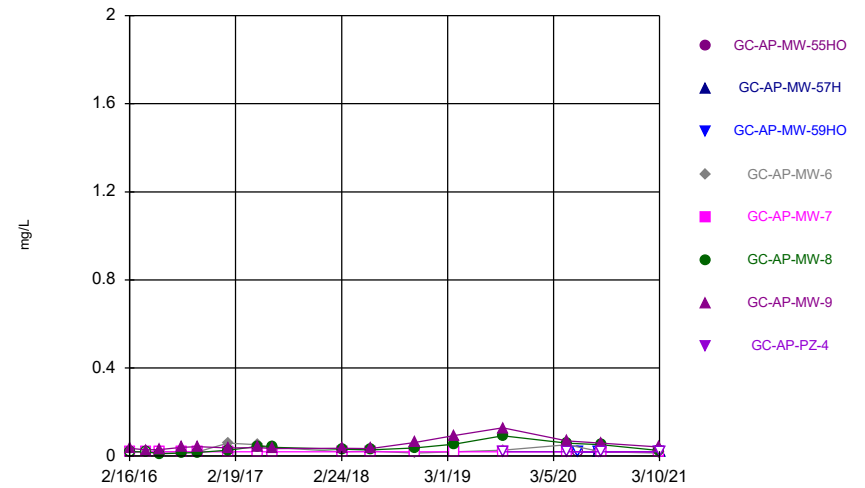
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Time Series



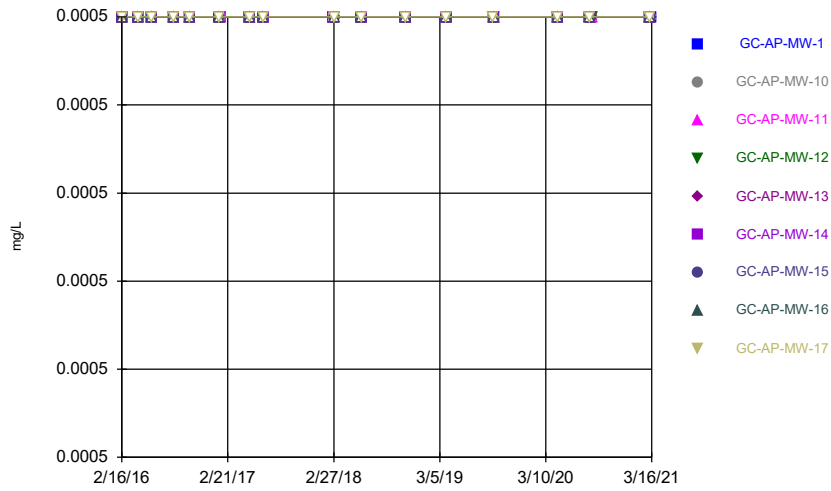
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Time Series



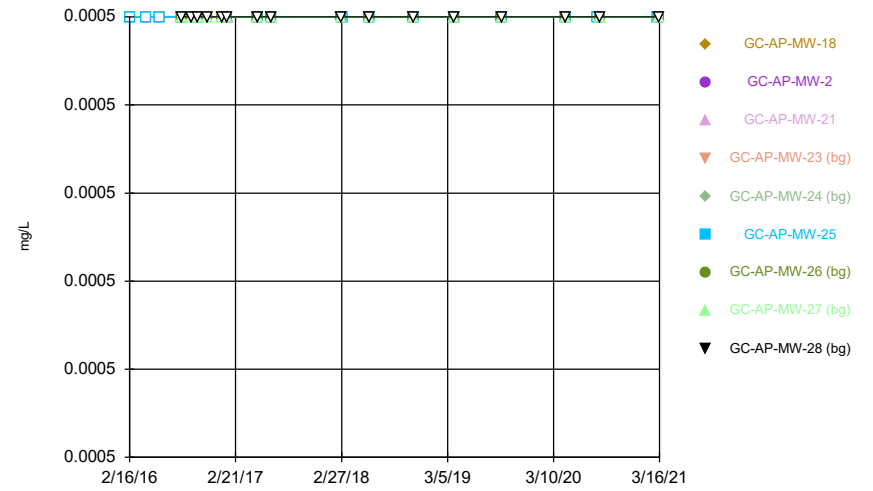
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Time Series



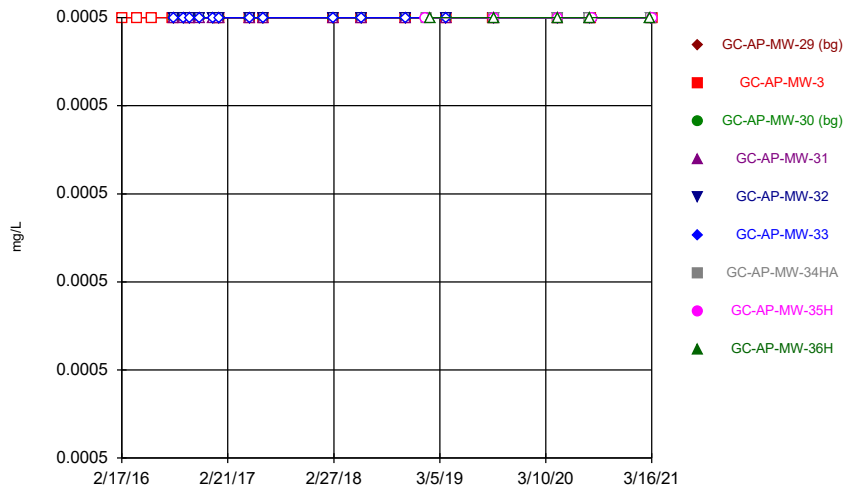
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Time Series



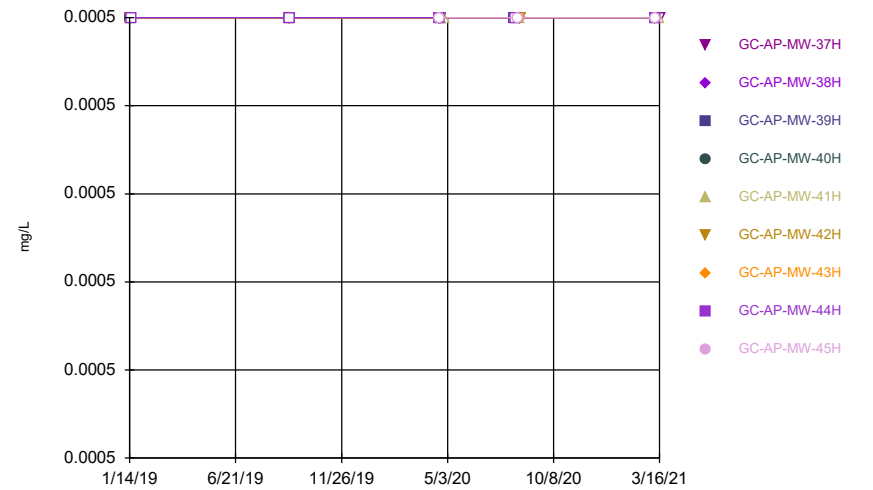
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Time Series



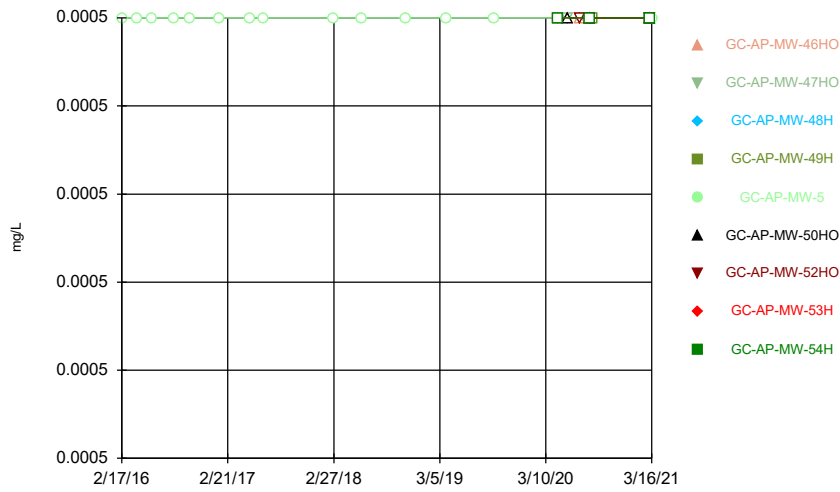
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Time Series



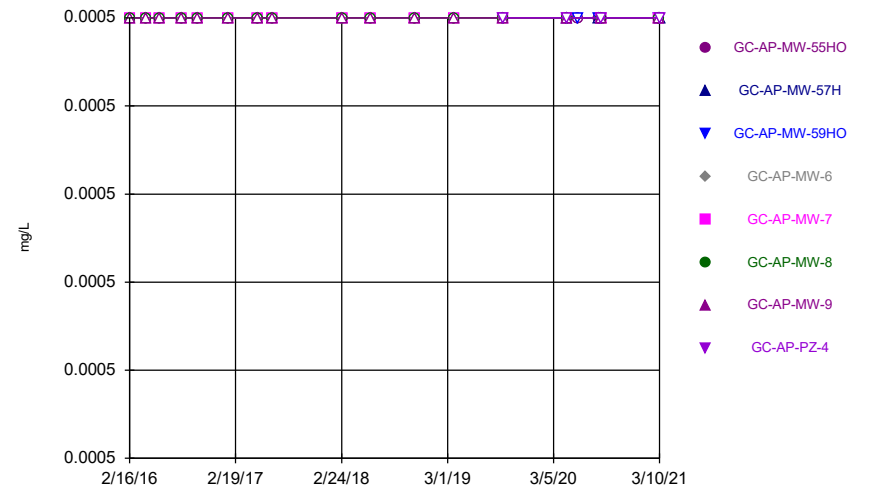
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Time Series



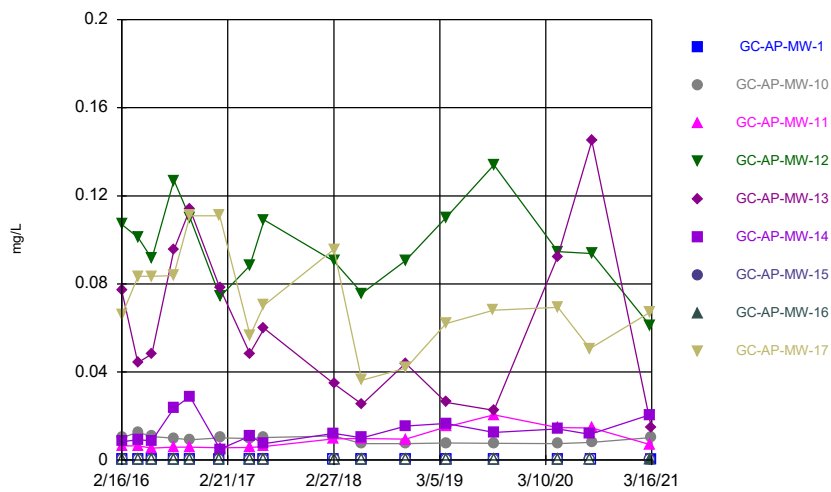
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Time Series



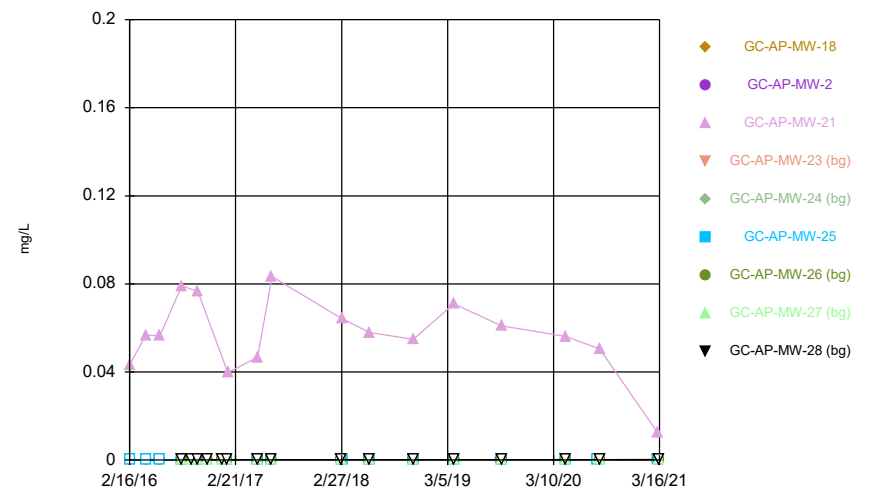
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Time Series



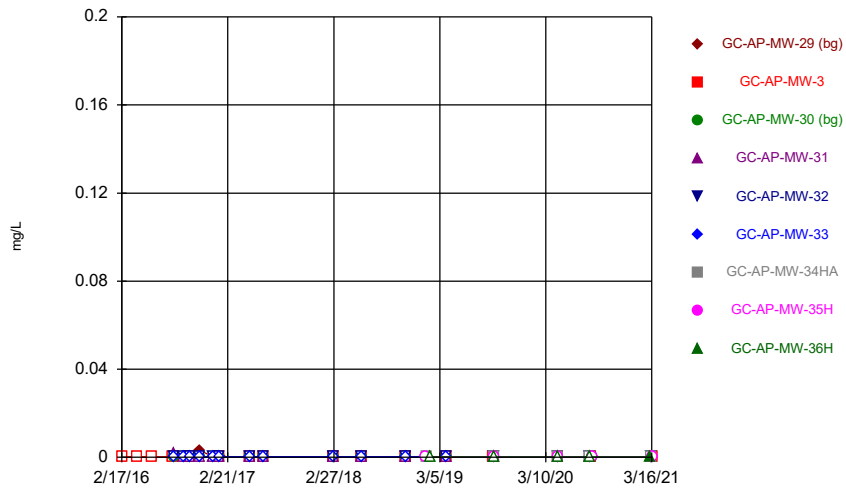
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Time Series



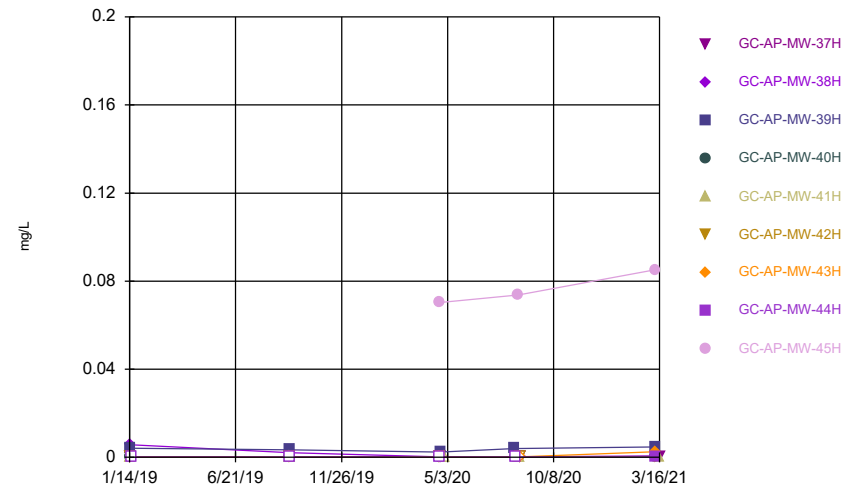
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Time Series



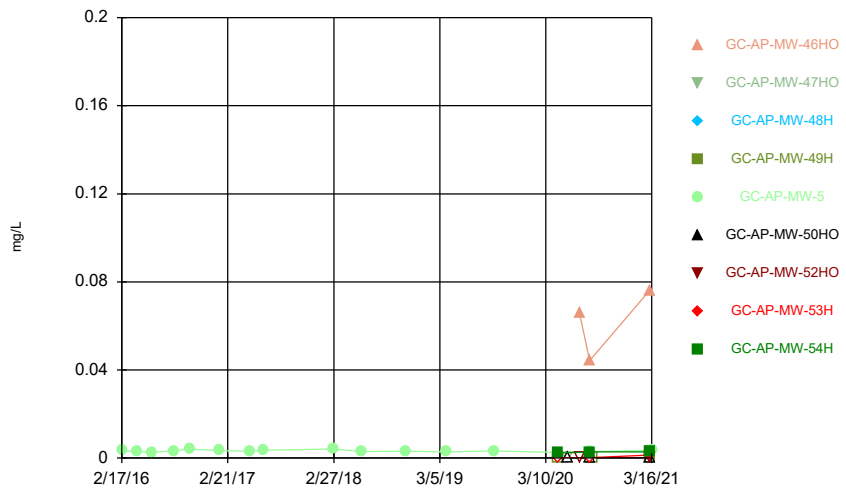
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Time Series



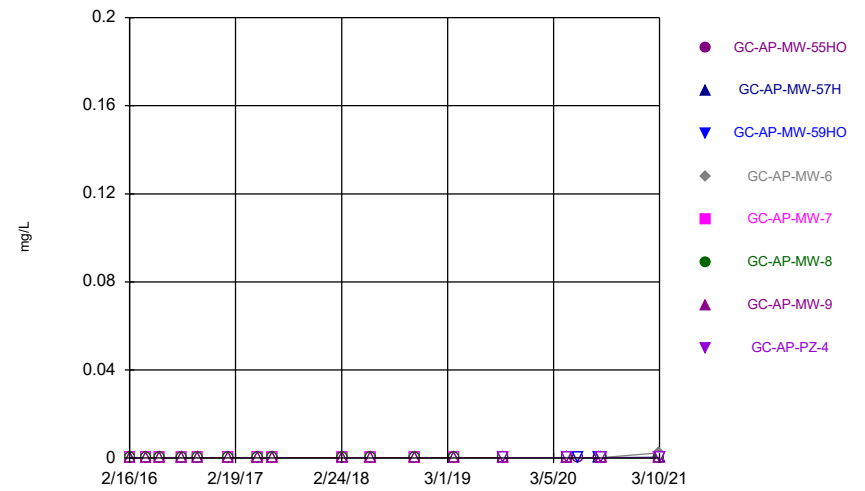
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Time Series



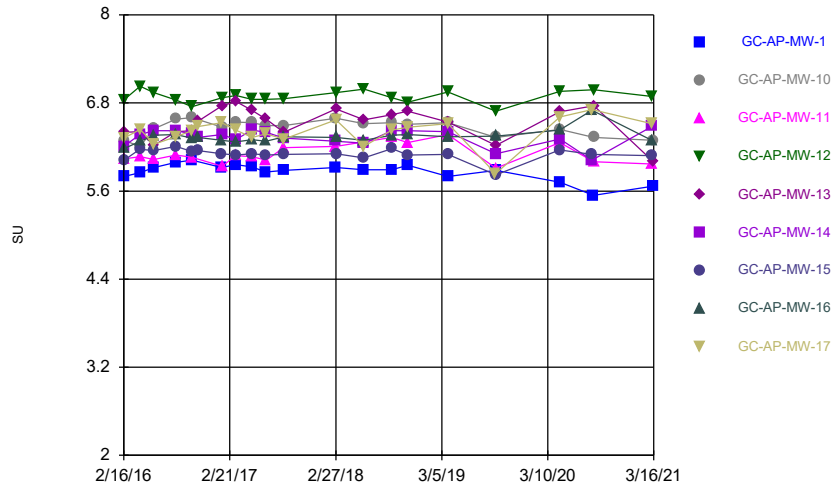
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Time Series



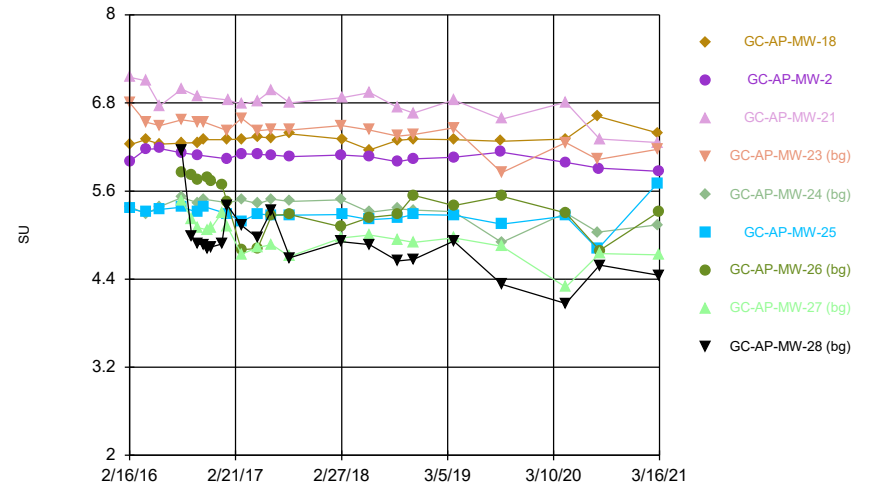
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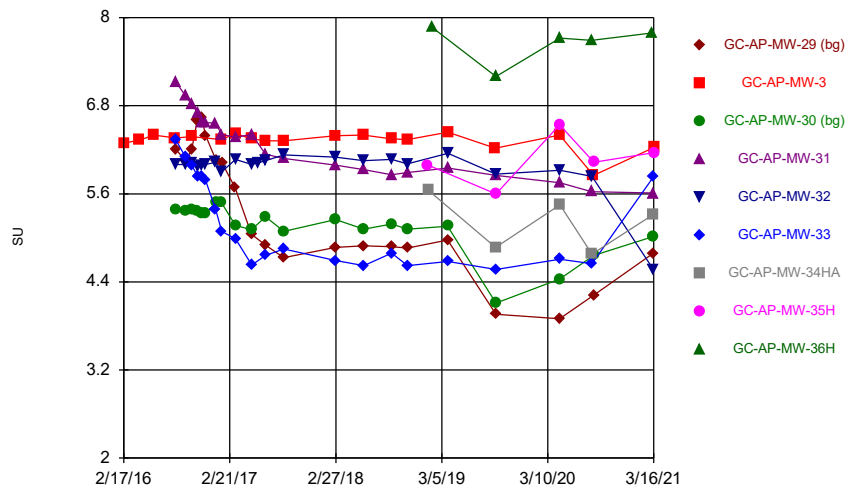
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Time Series



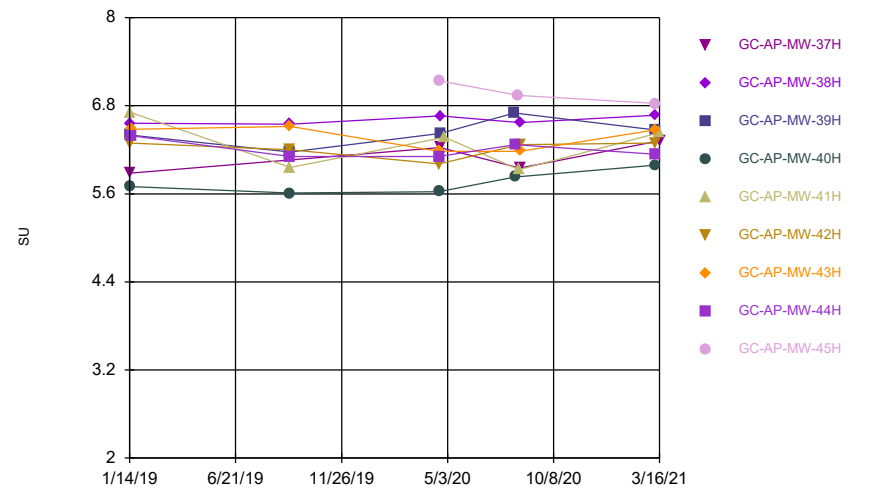
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



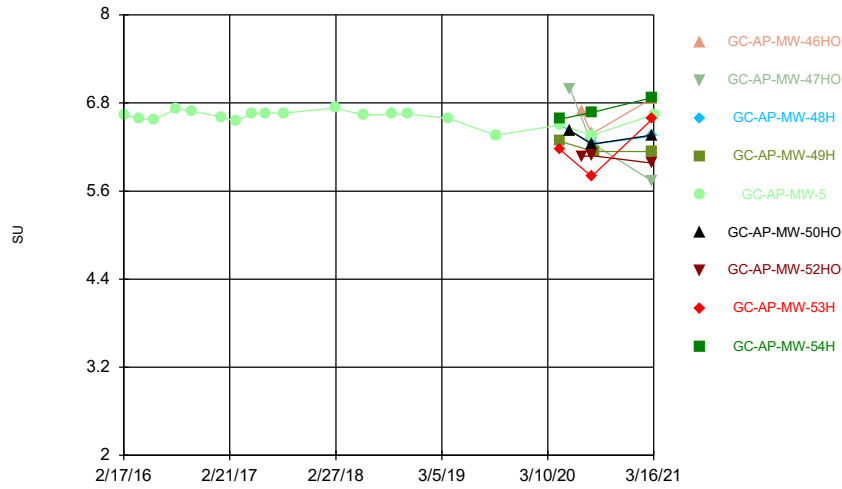
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Time Series



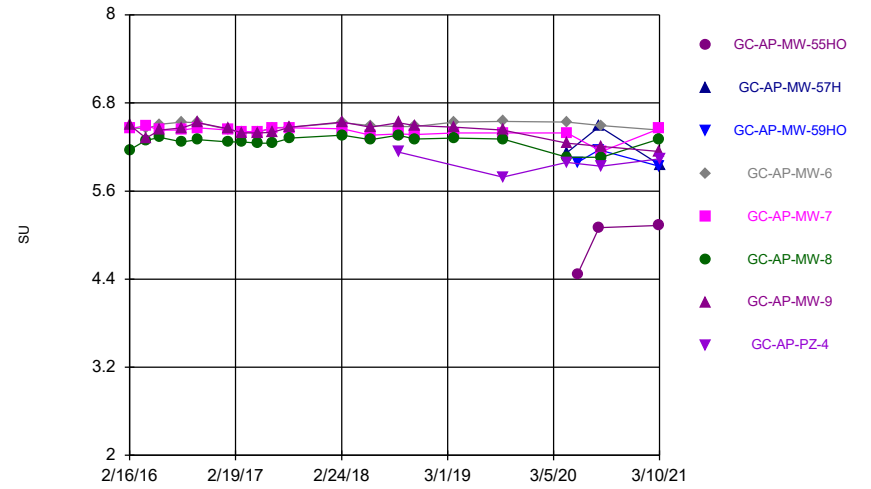
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Time Series



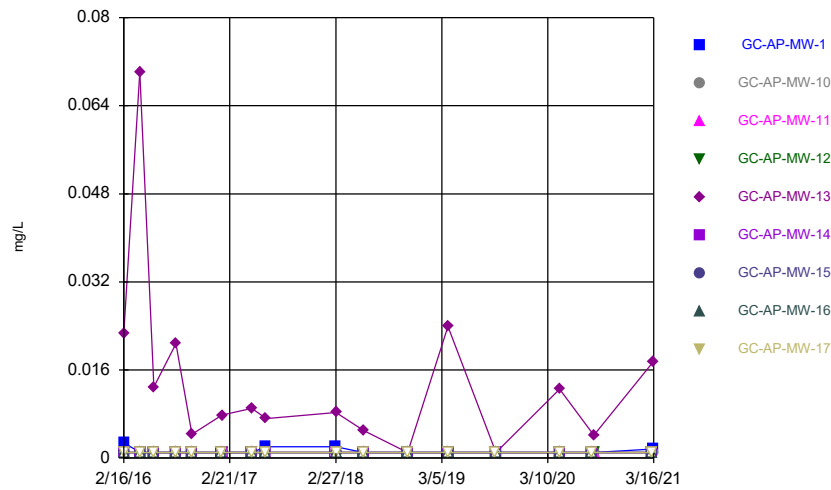
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Time Series



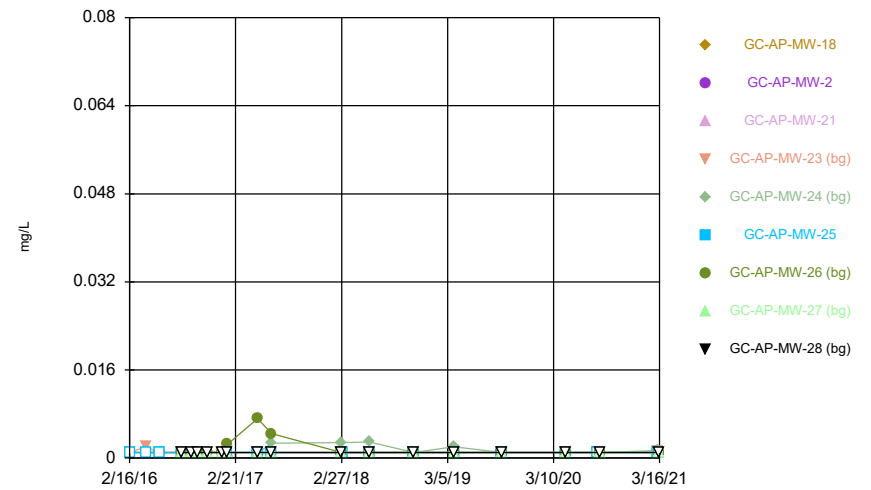
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Time Series



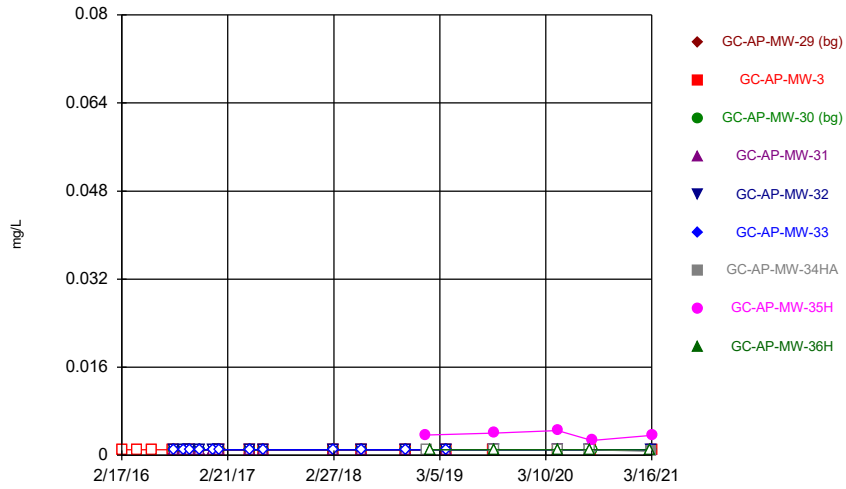
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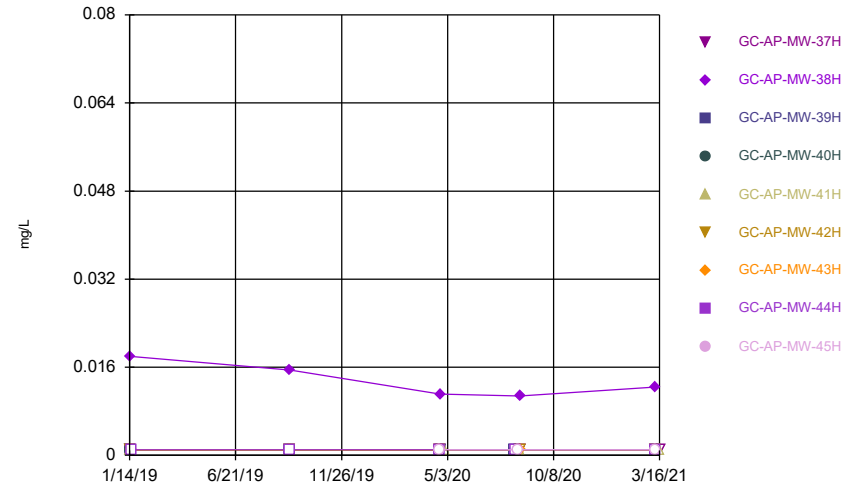
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Time Series



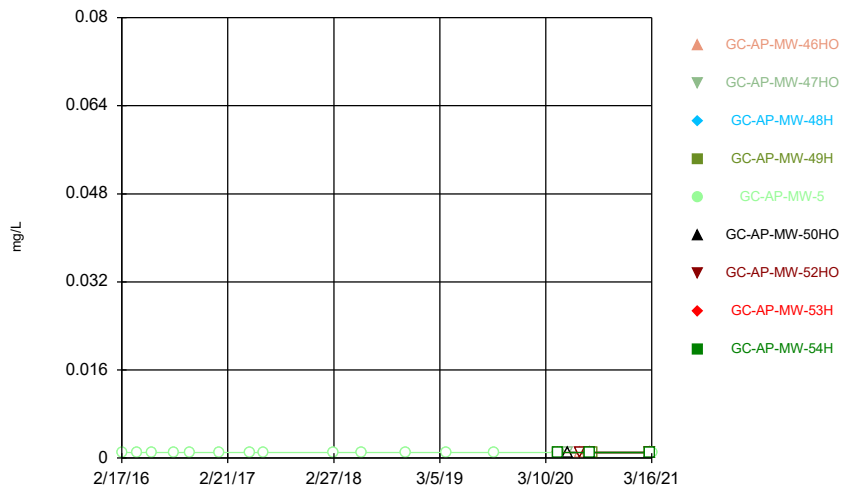
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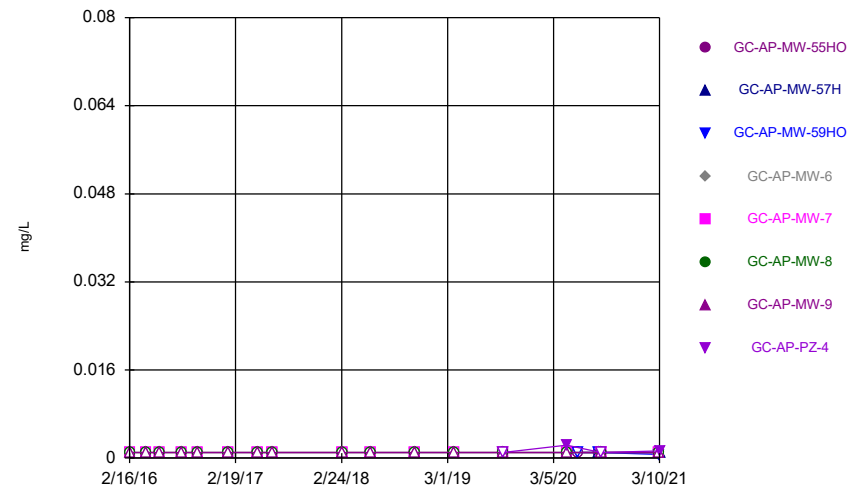
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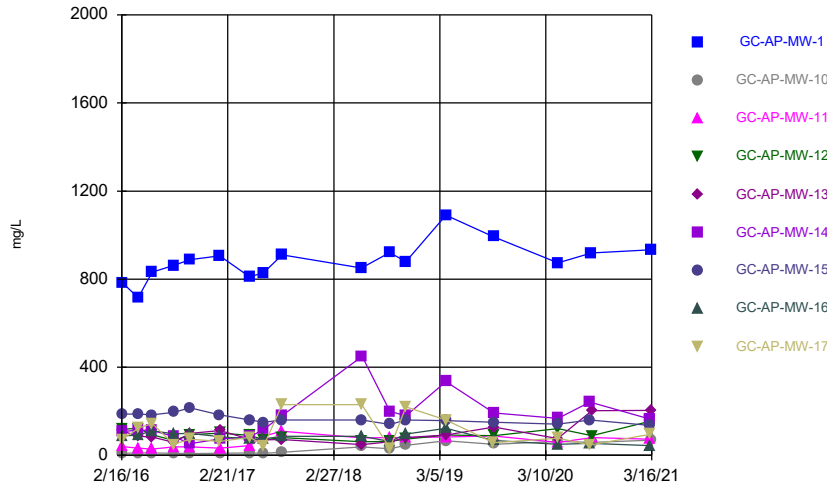
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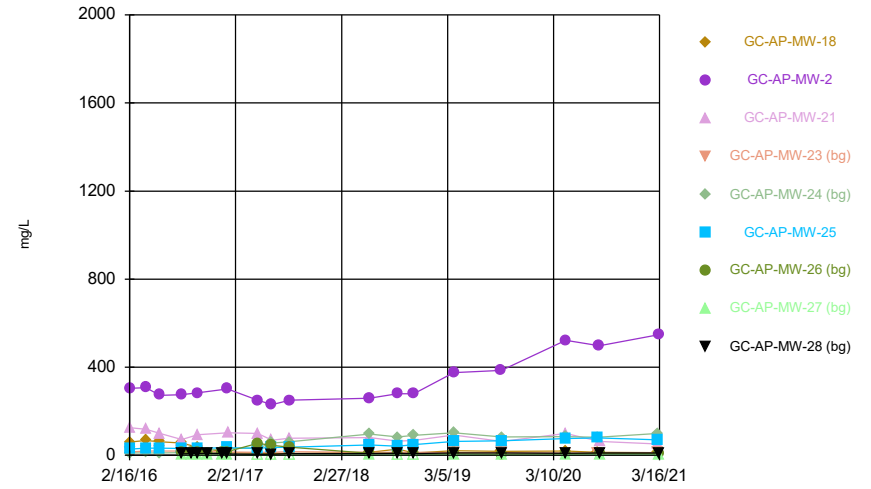
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Hollow symbols indicate censored values.

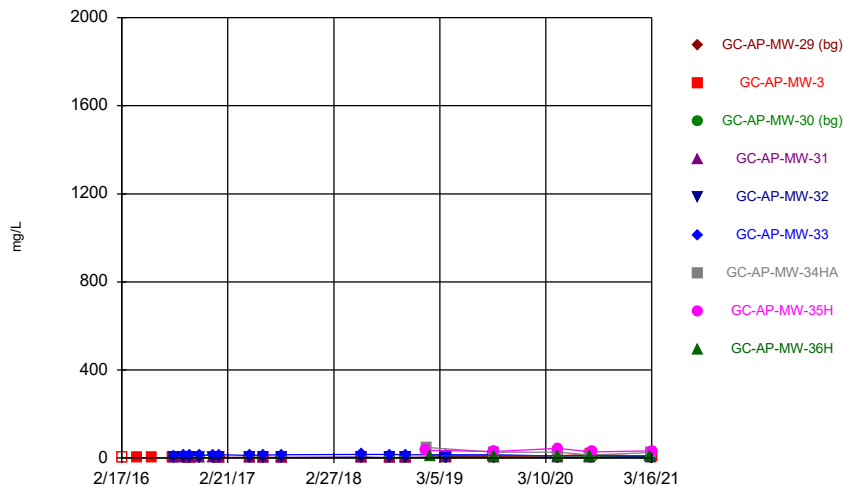
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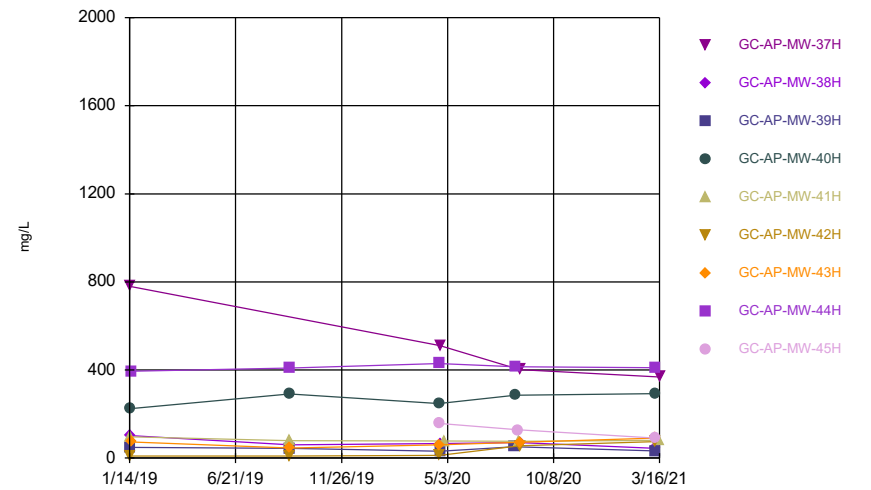
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Time Series



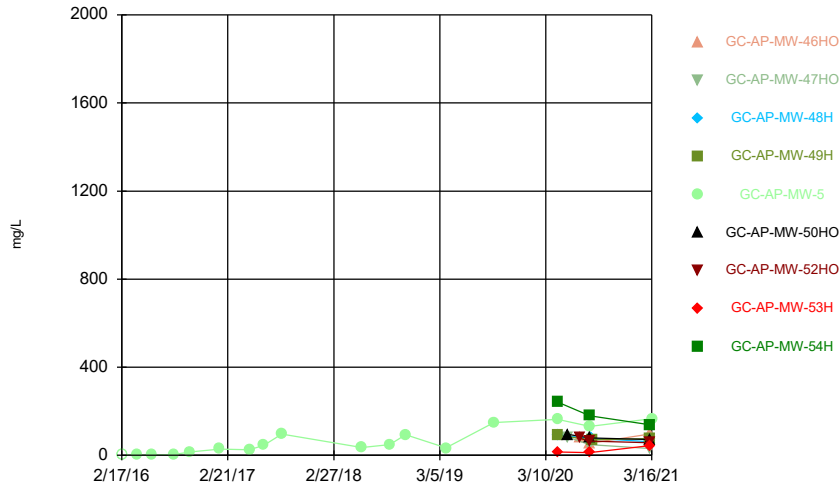
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Time Series



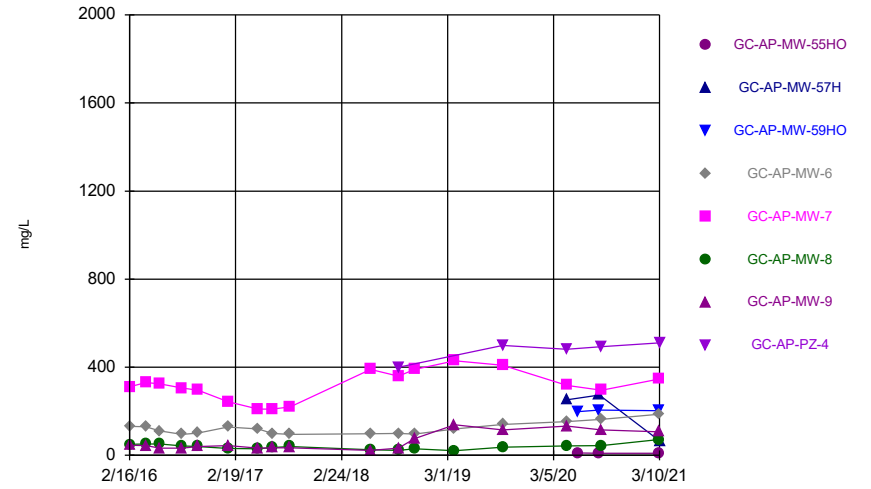
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Time Series



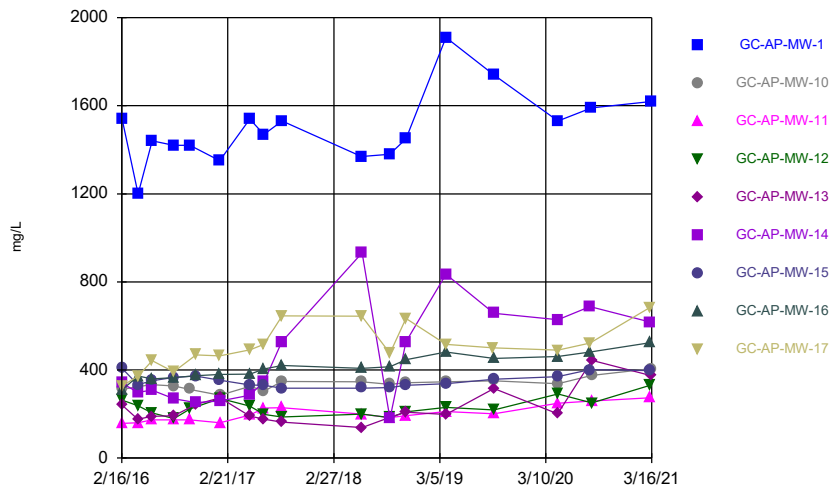
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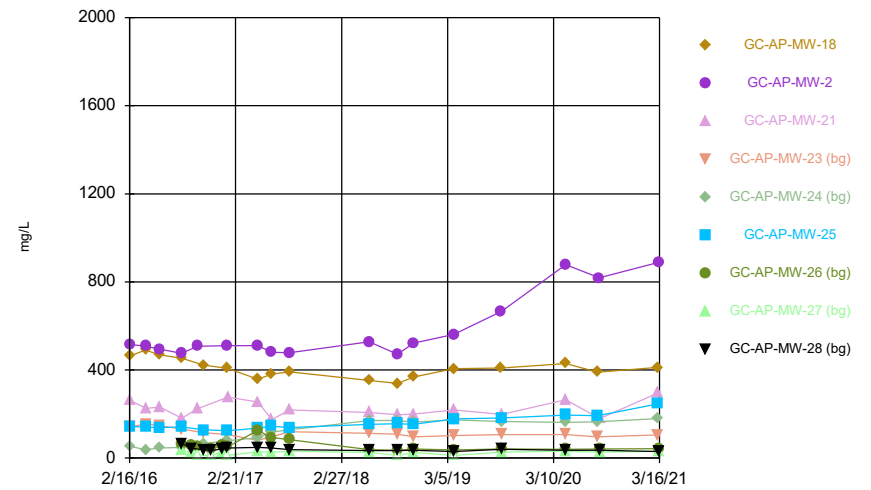
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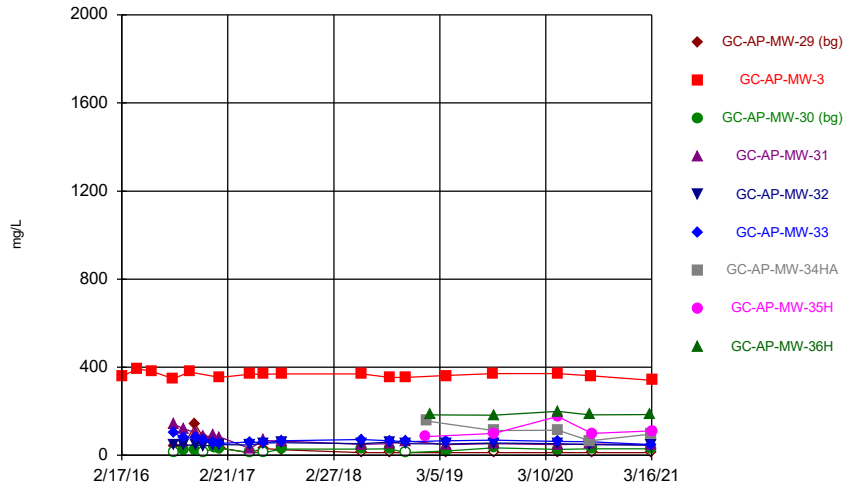
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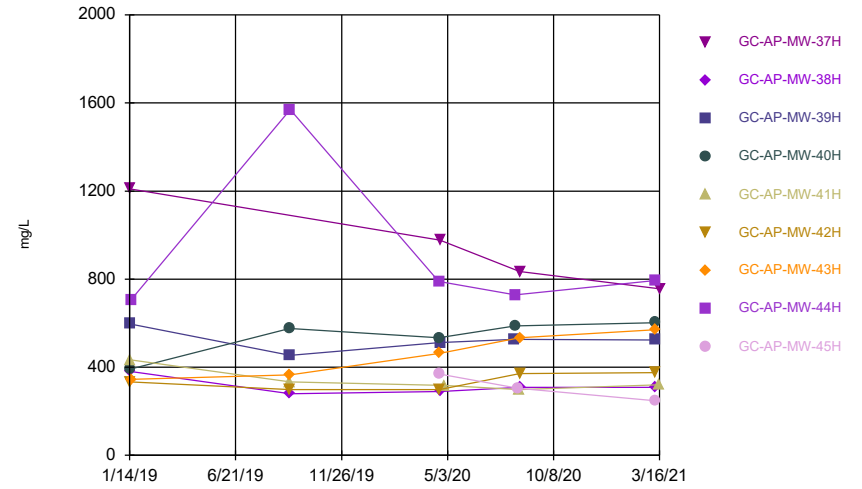
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Time Series



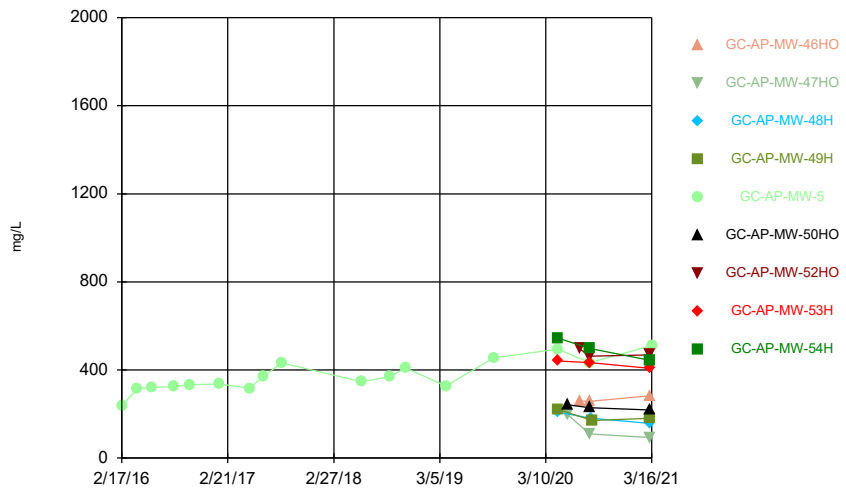
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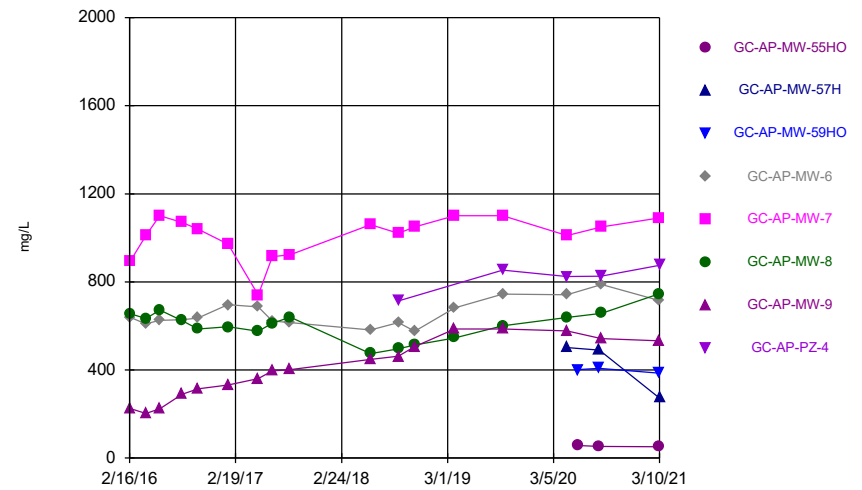
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Time Series



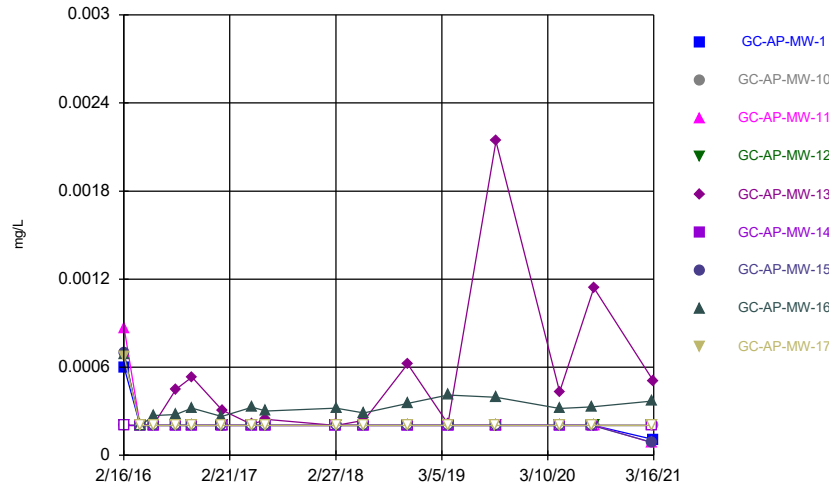
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Time Series



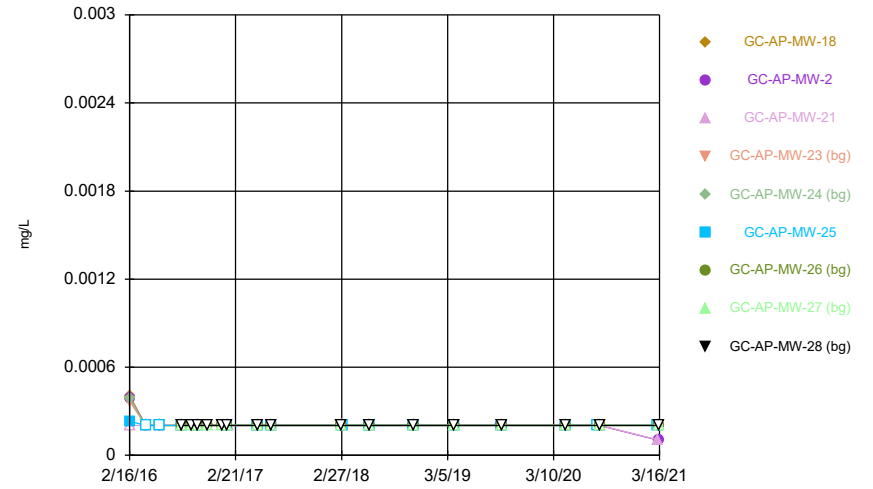
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Time Series



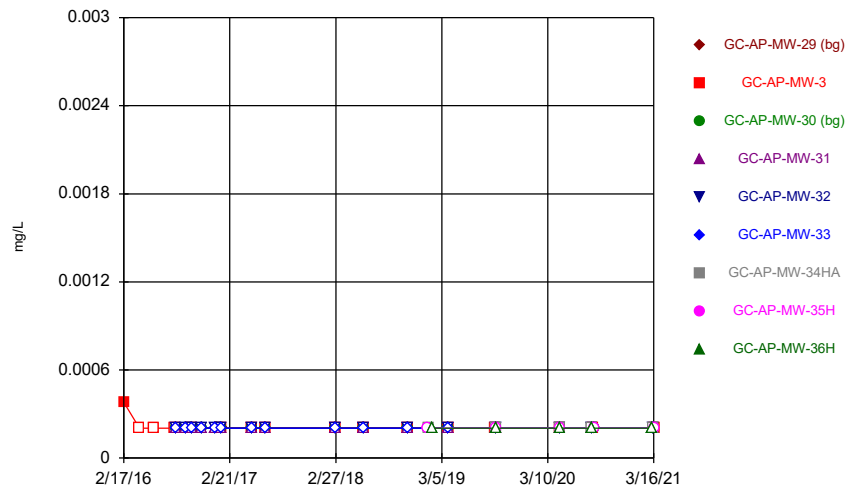
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Time Series



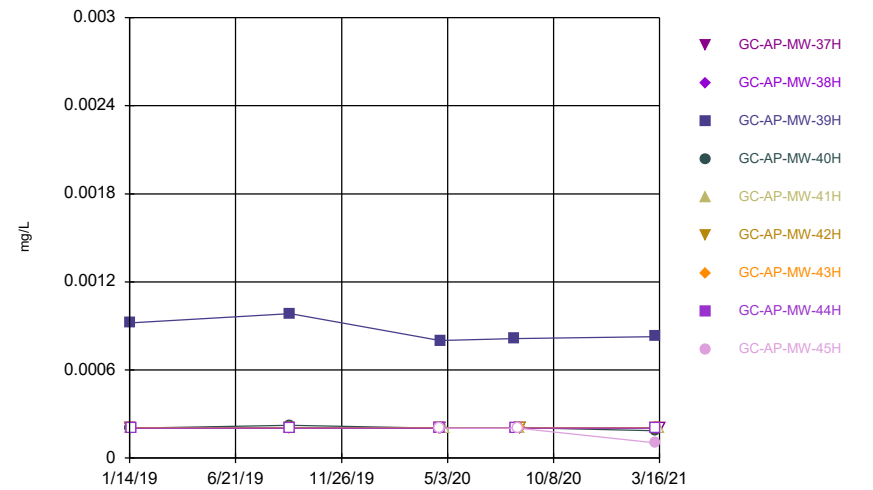
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Time Series



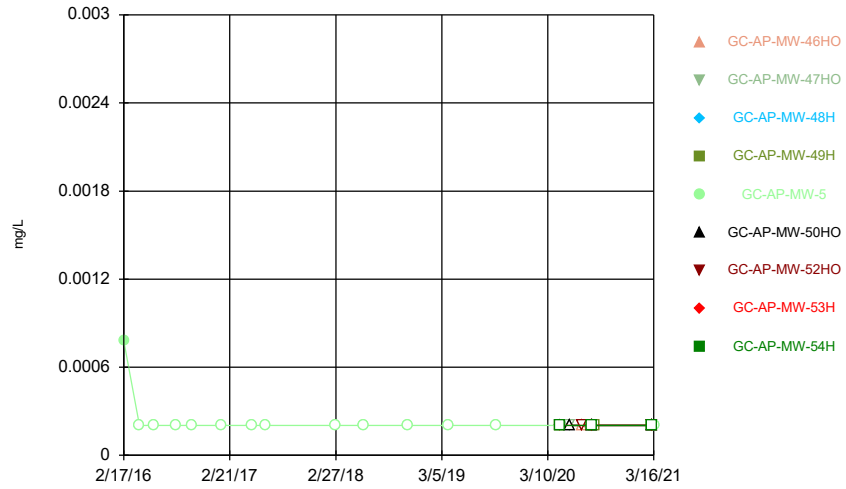
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Time Series



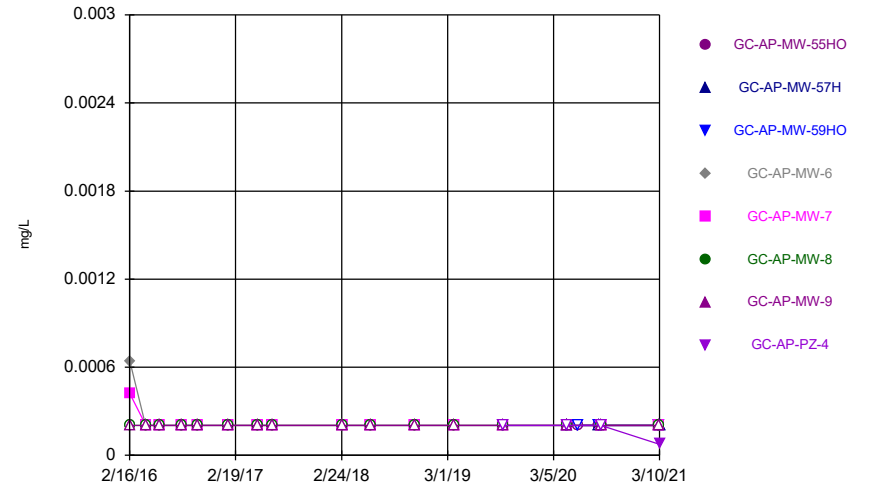
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Time Series



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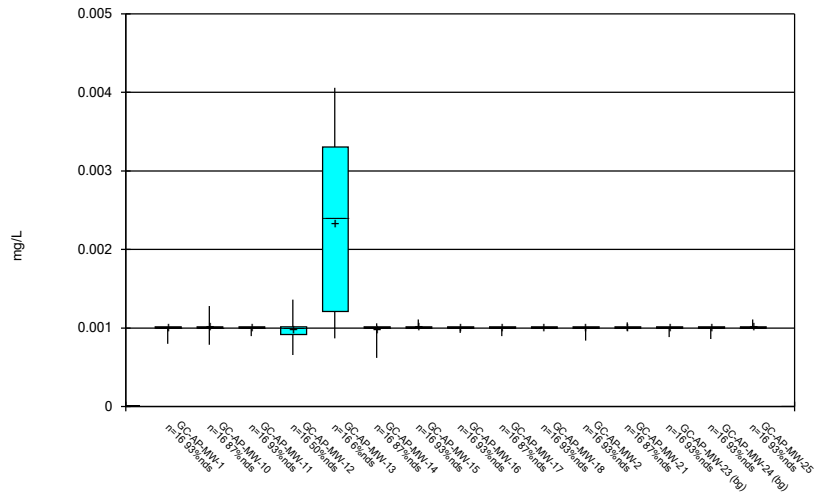
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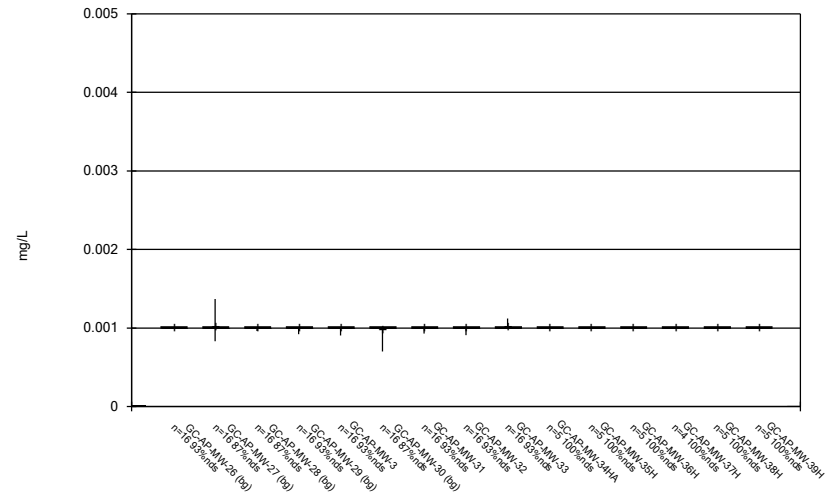
FIGURE B.

Box & Whiskers Plot



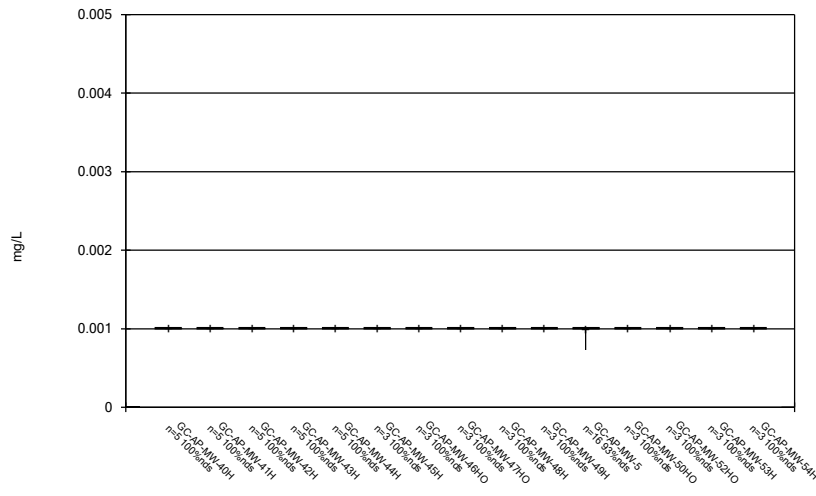
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Box & Whiskers Plot



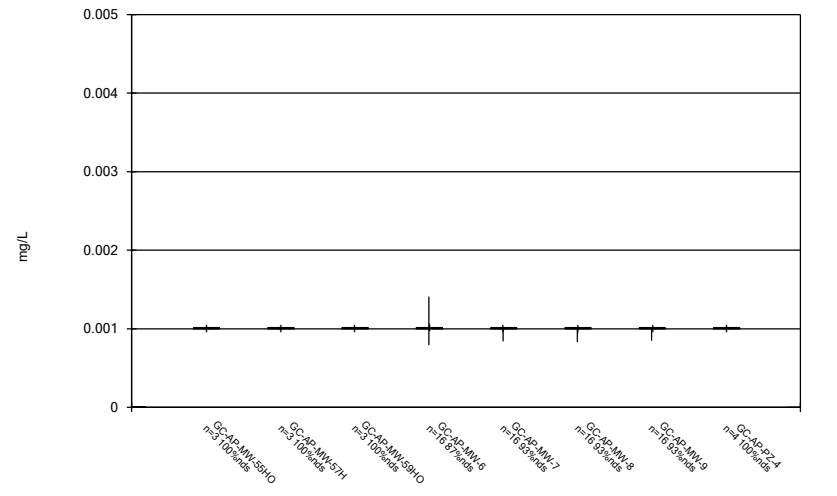
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Box & Whiskers Plot



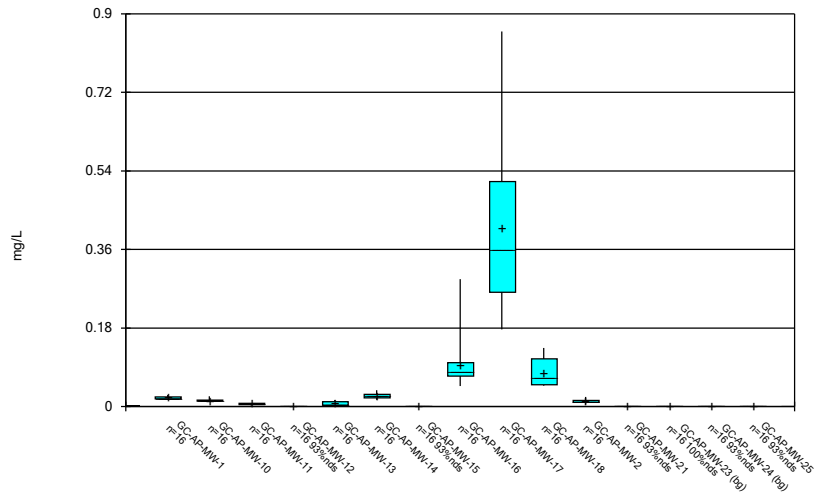
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Box & Whiskers Plot



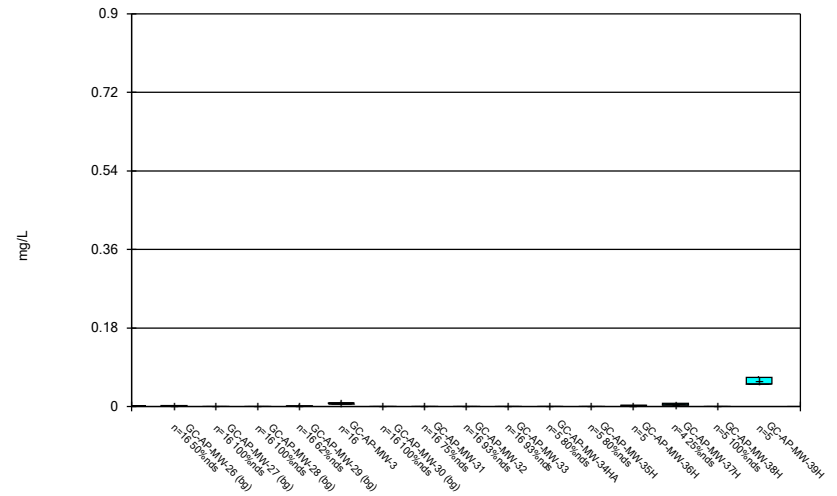
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Box & Whiskers Plot



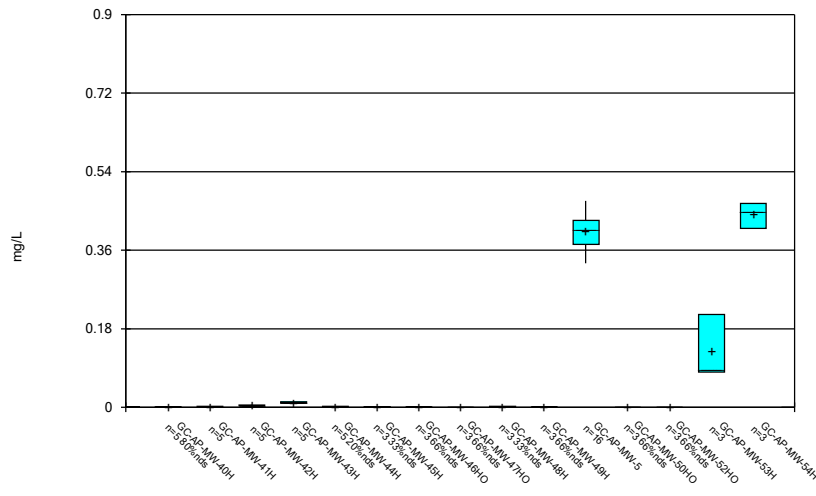
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Box & Whiskers Plot



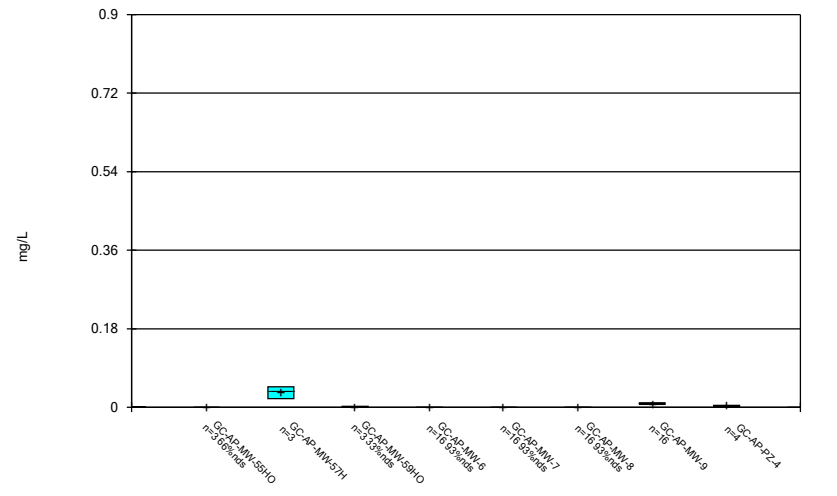
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Box & Whiskers Plot



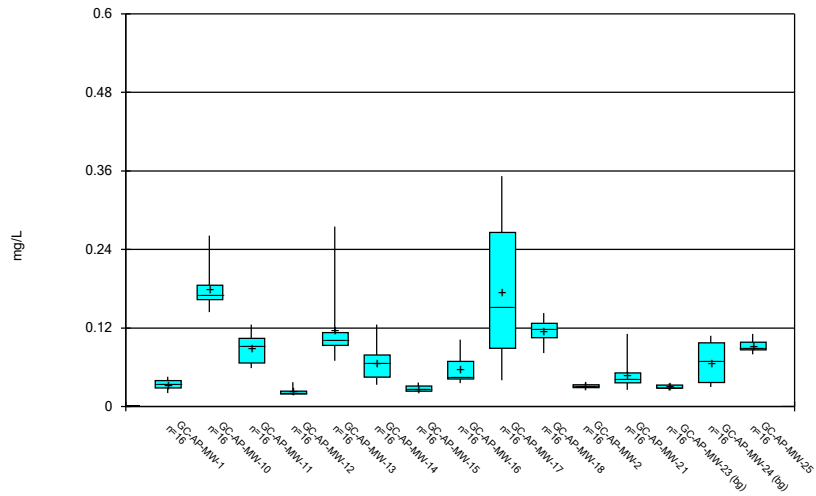
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Box & Whiskers Plot



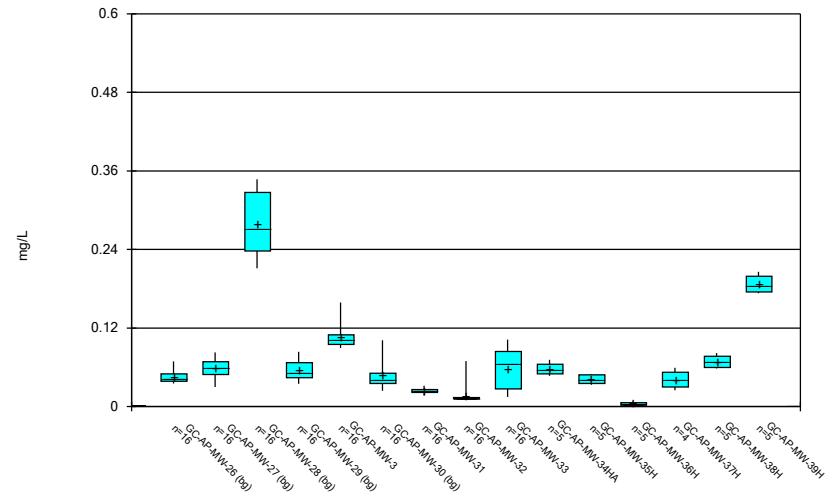
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Box & Whiskers Plot



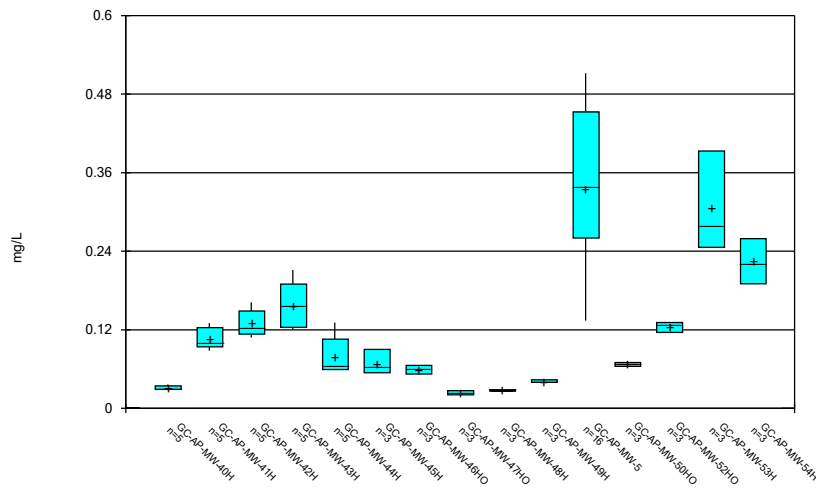
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Box & Whiskers Plot



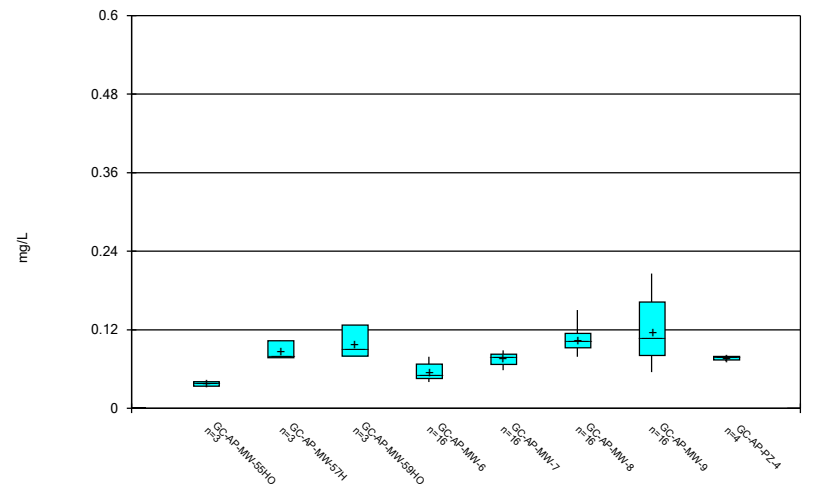
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Box & Whiskers Plot



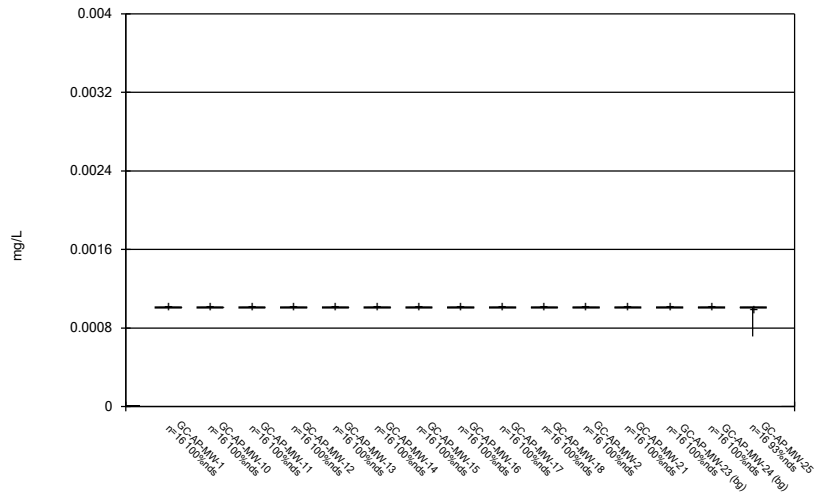
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Box & Whiskers Plot



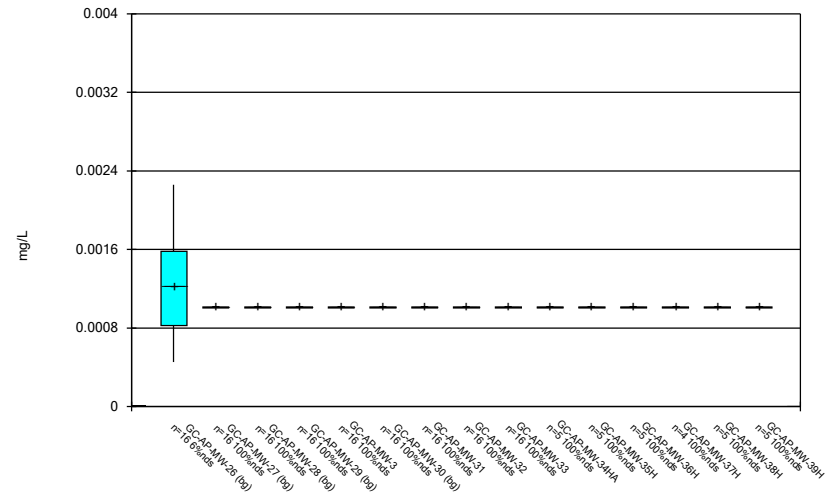
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Box & Whiskers Plot



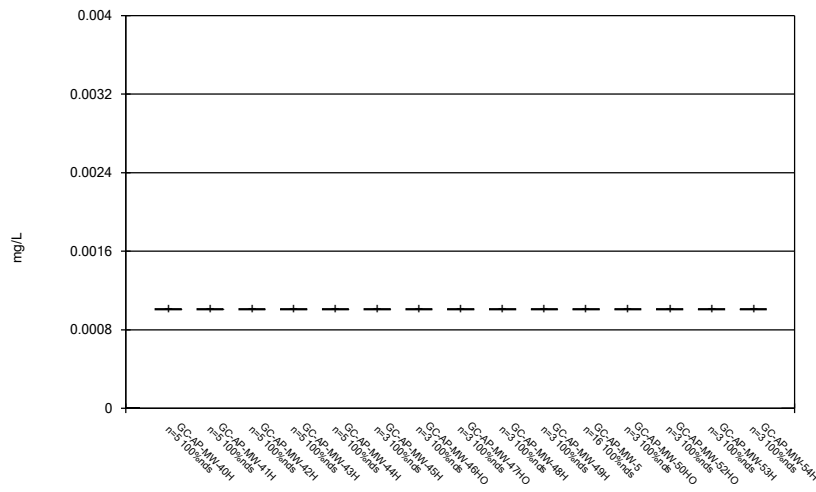
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Box & Whiskers Plot



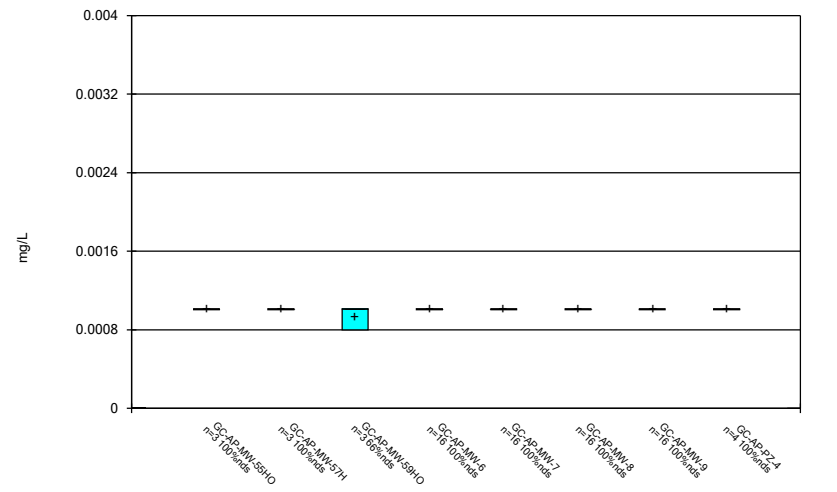
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Box & Whiskers Plot



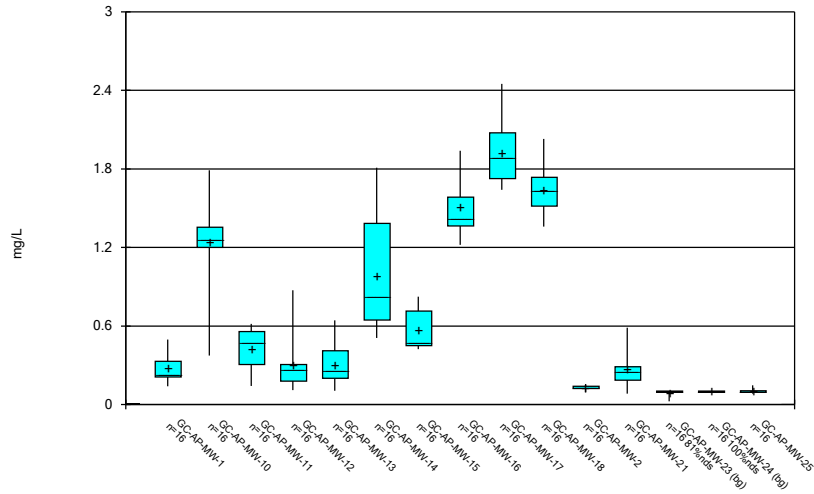
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Box & Whiskers Plot



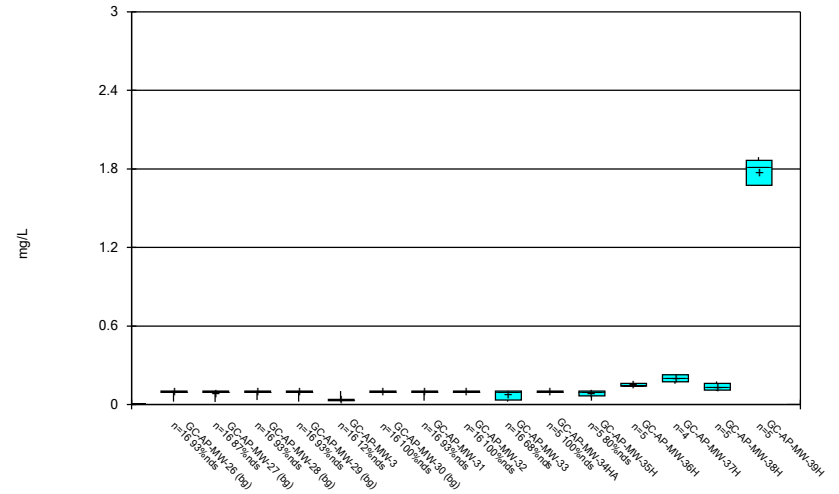
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Box & Whiskers Plot



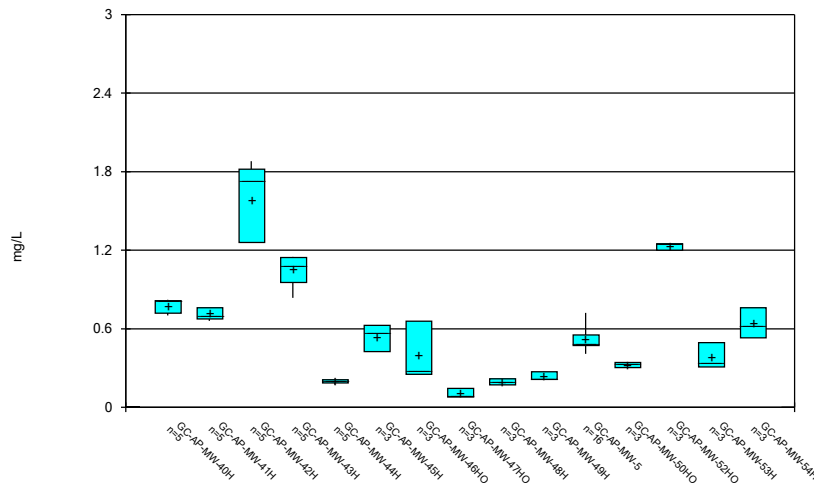
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Box & Whiskers Plot



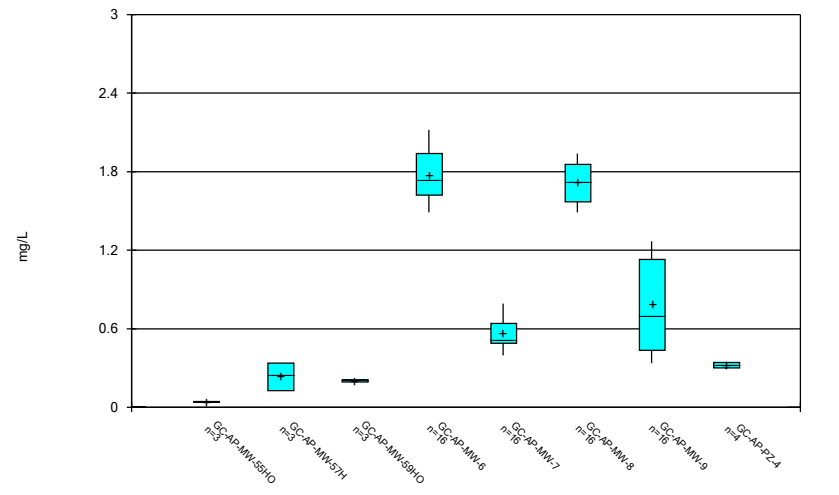
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Box & Whiskers Plot



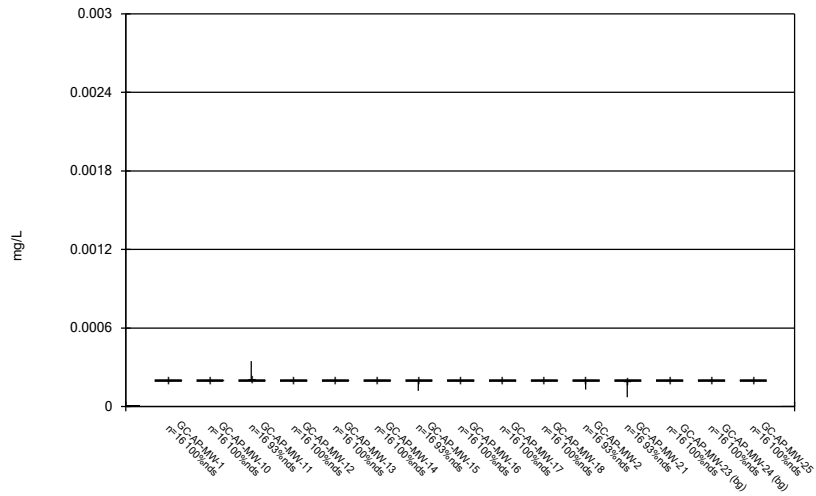
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Box & Whiskers Plot



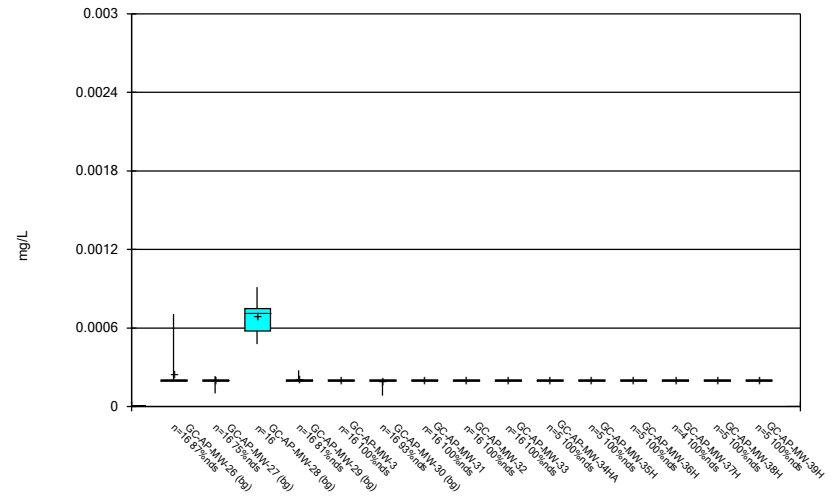
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Box & Whiskers Plot



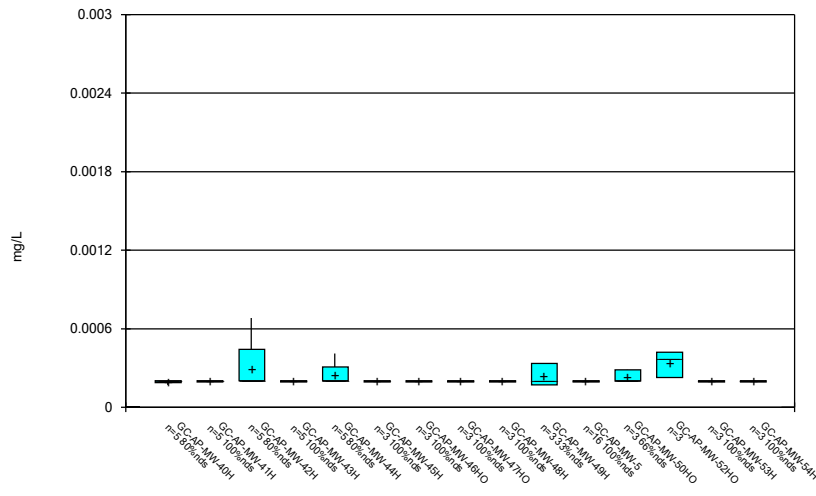
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Box & Whiskers Plot



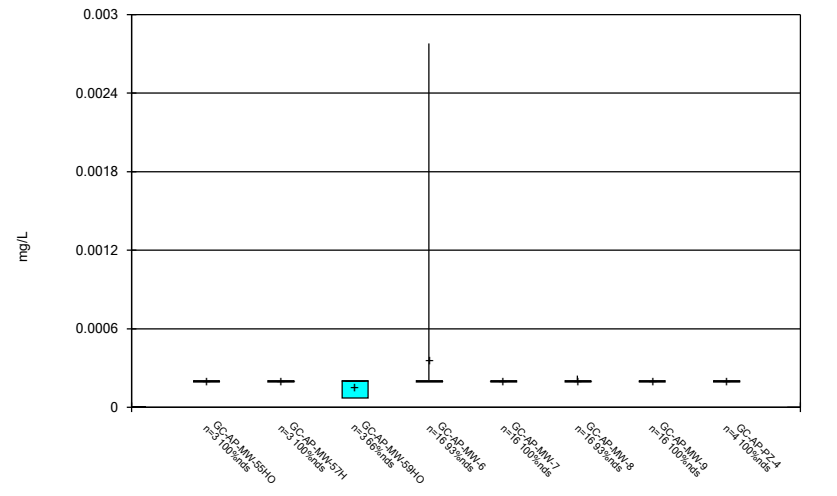
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Box & Whiskers Plot



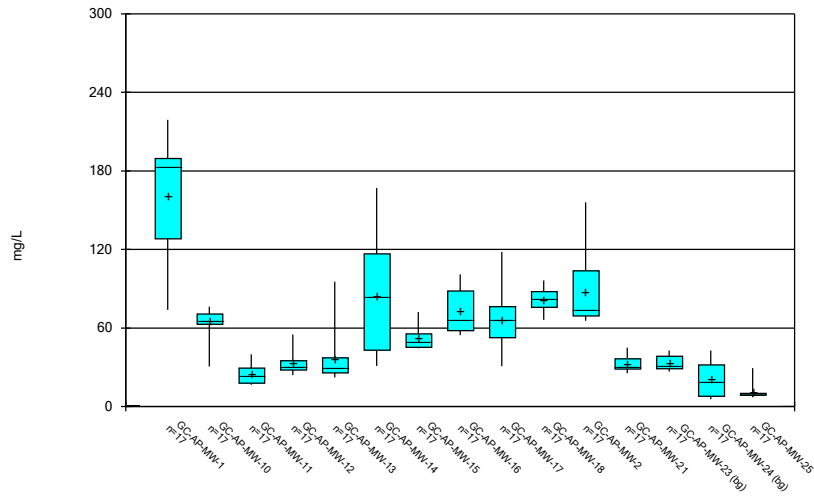
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Box & Whiskers Plot



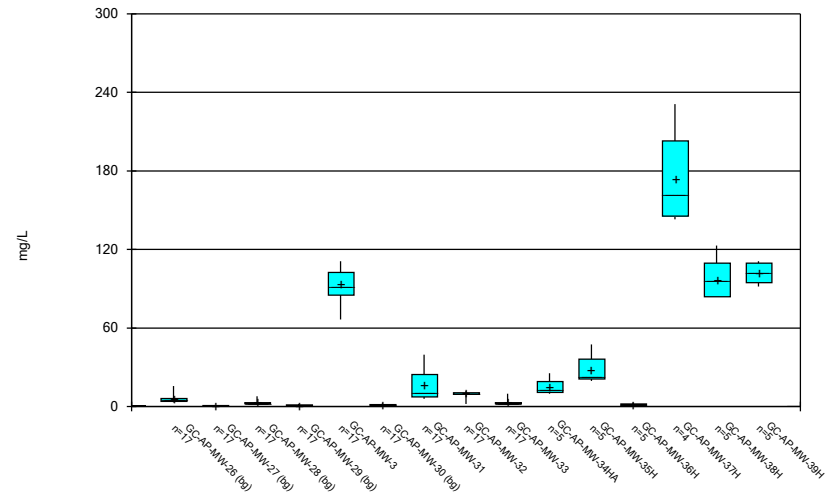
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Box & Whiskers Plot



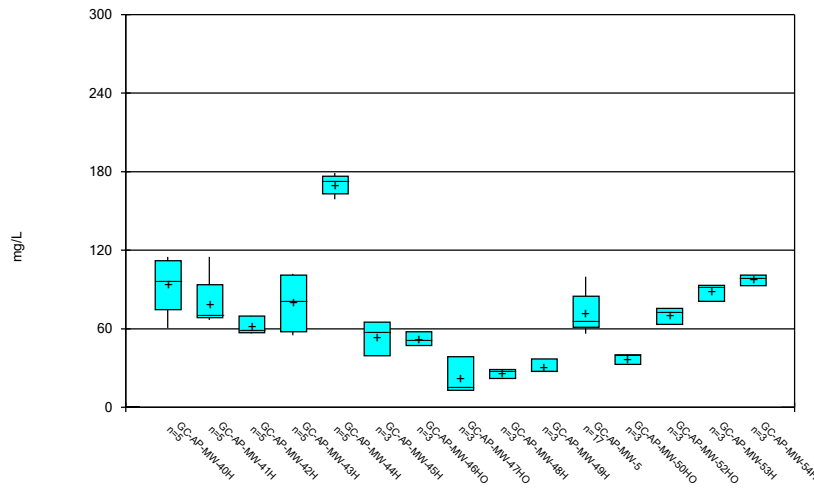
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Box & Whiskers Plot



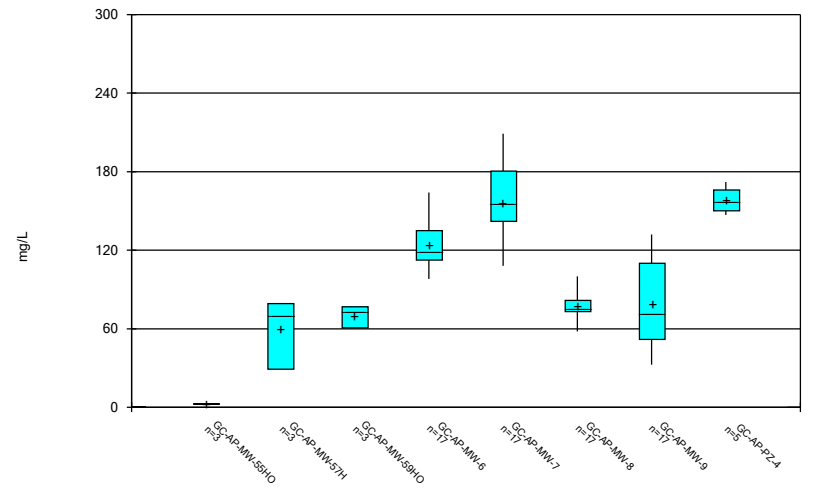
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Box & Whiskers Plot



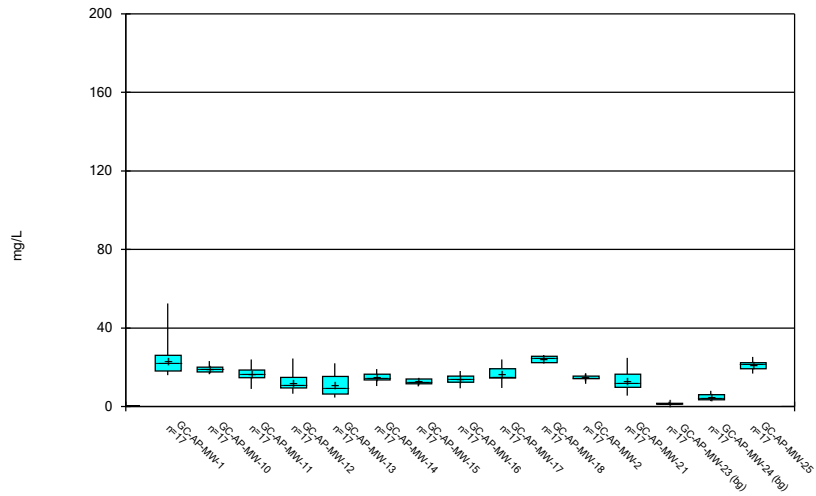
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Box & Whiskers Plot



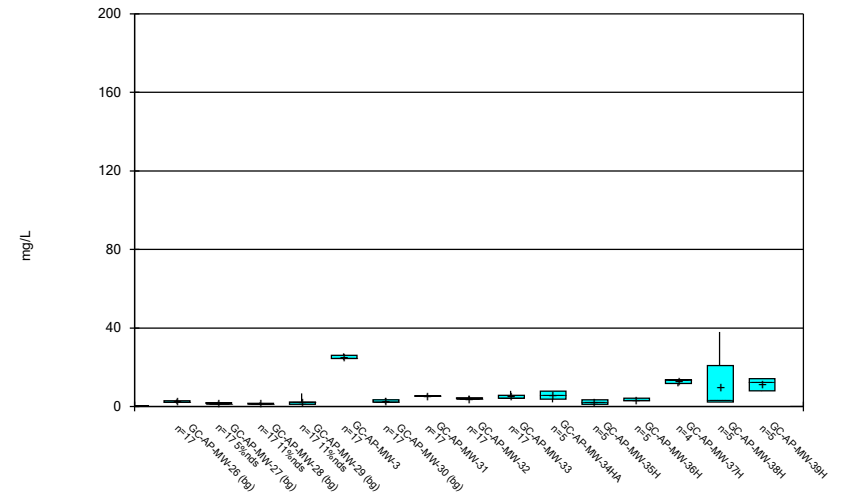
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Box & Whiskers Plot



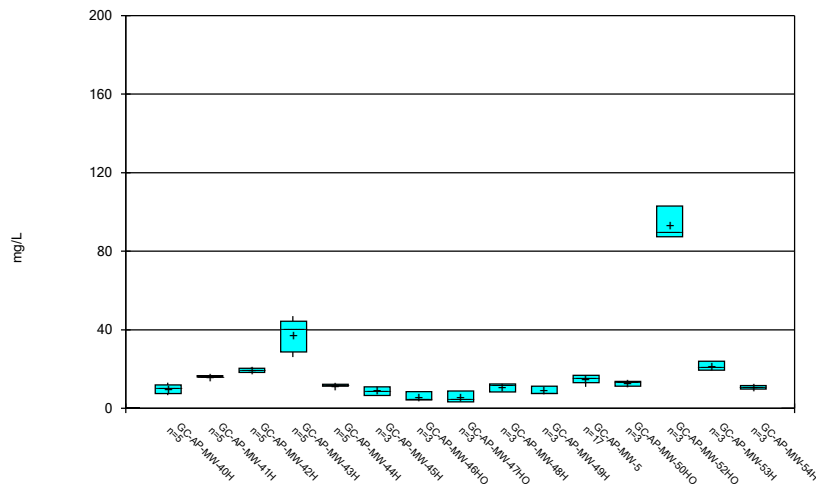
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Box & Whiskers Plot



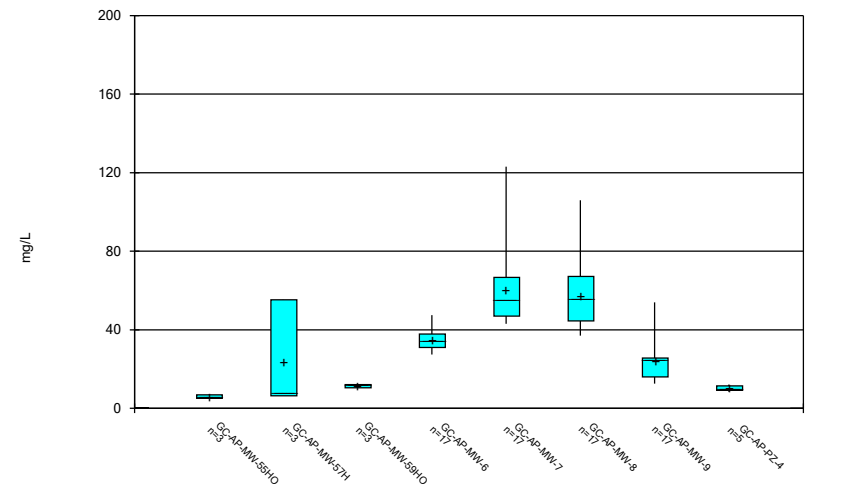
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Box & Whiskers Plot



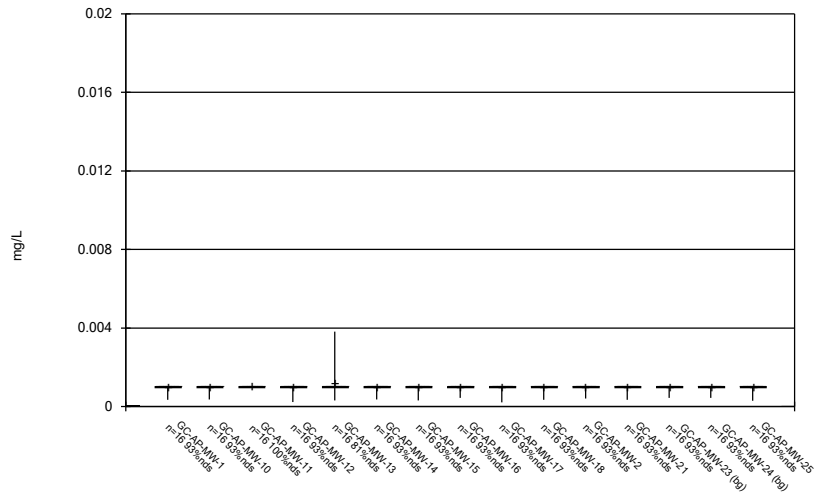
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Box & Whiskers Plot



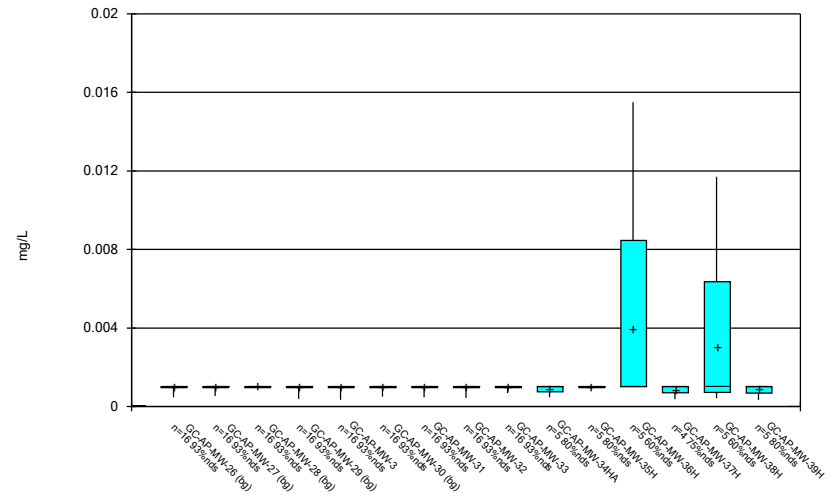
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Box & Whiskers Plot



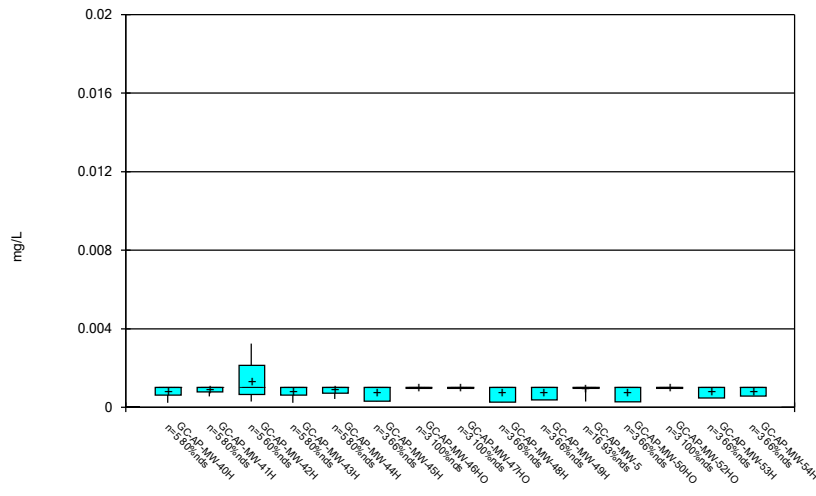
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Box & Whiskers Plot



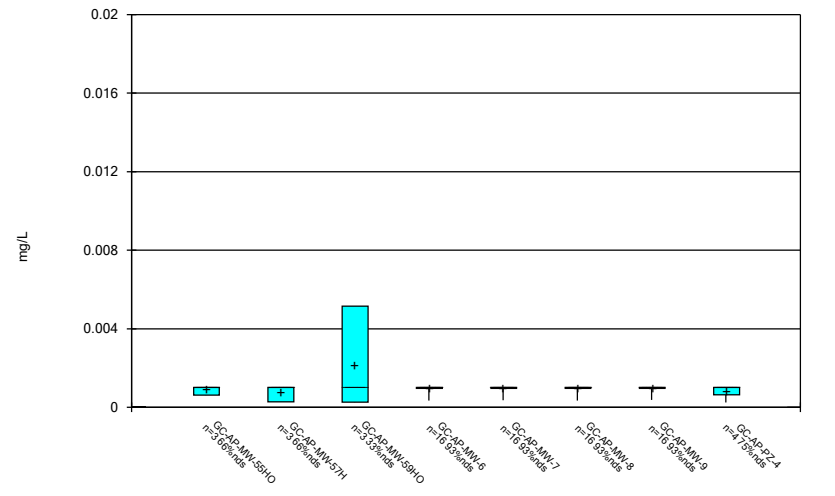
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Box & Whiskers Plot



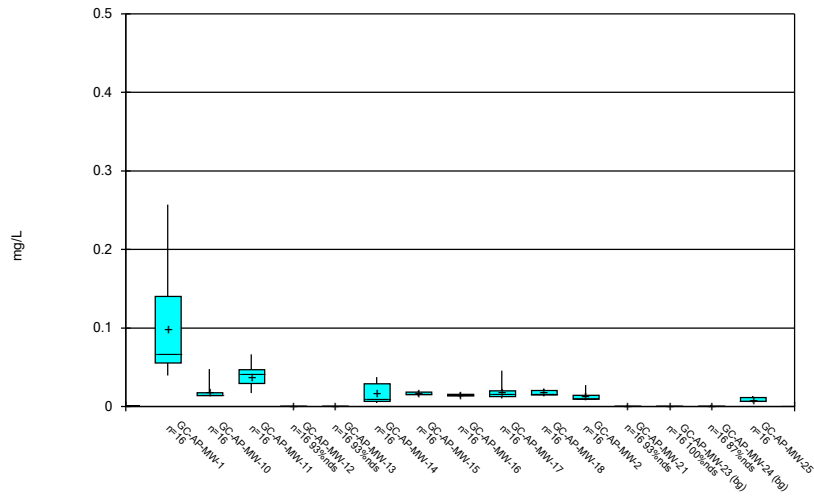
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



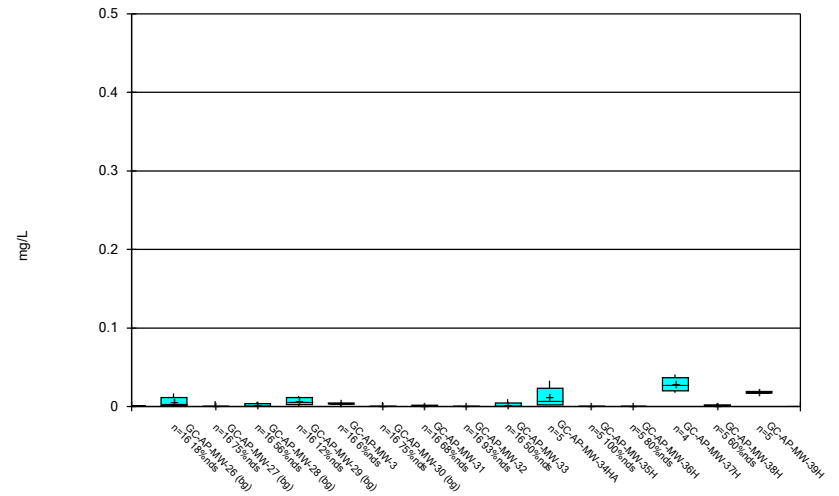
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



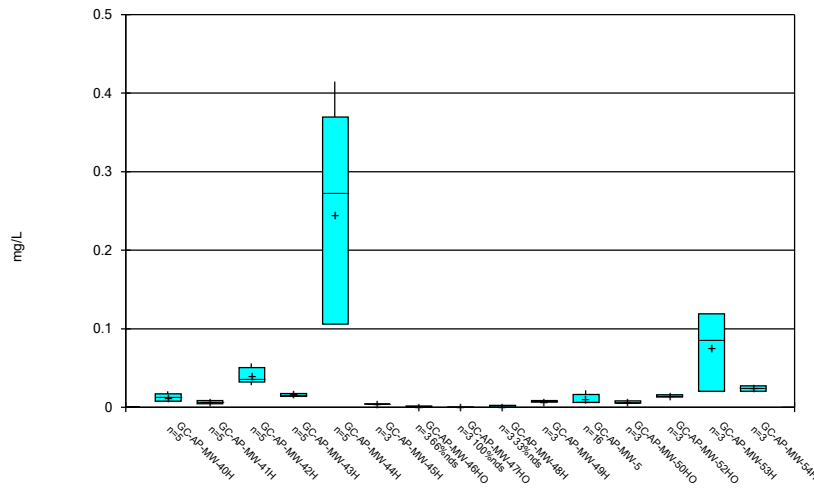
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



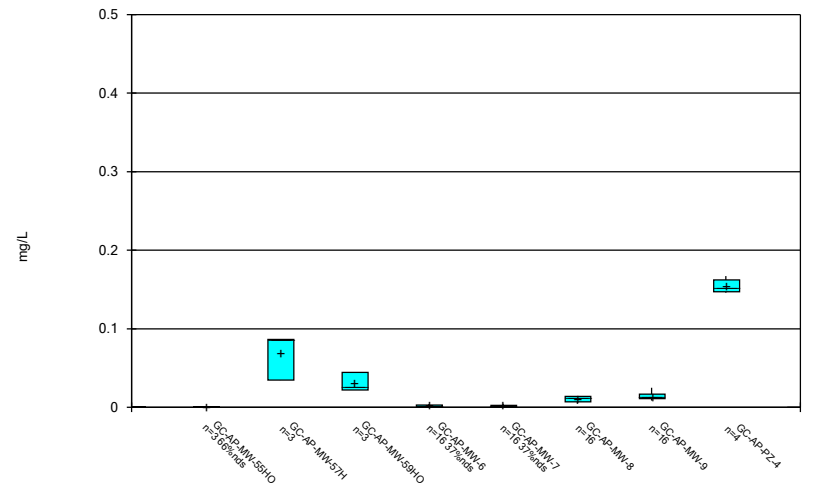
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



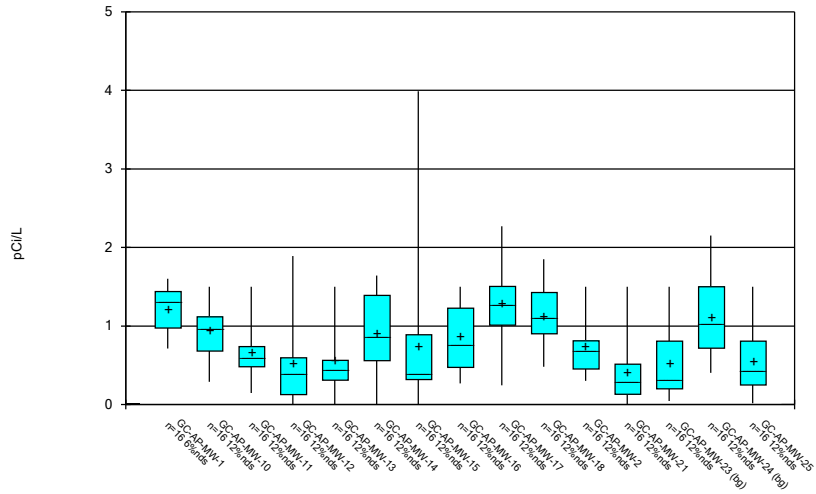
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Box & Whiskers Plot



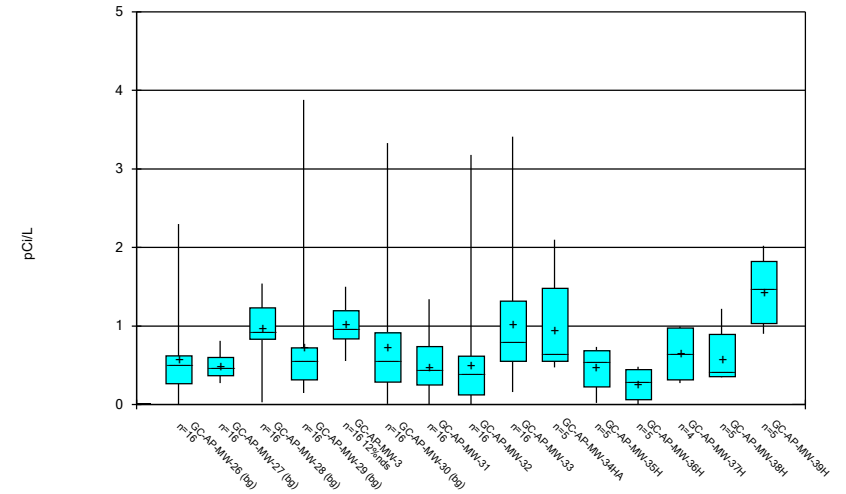
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



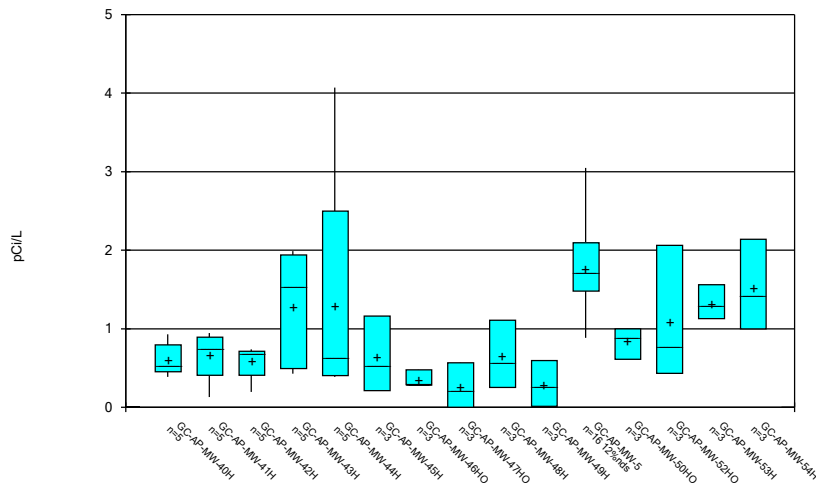
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



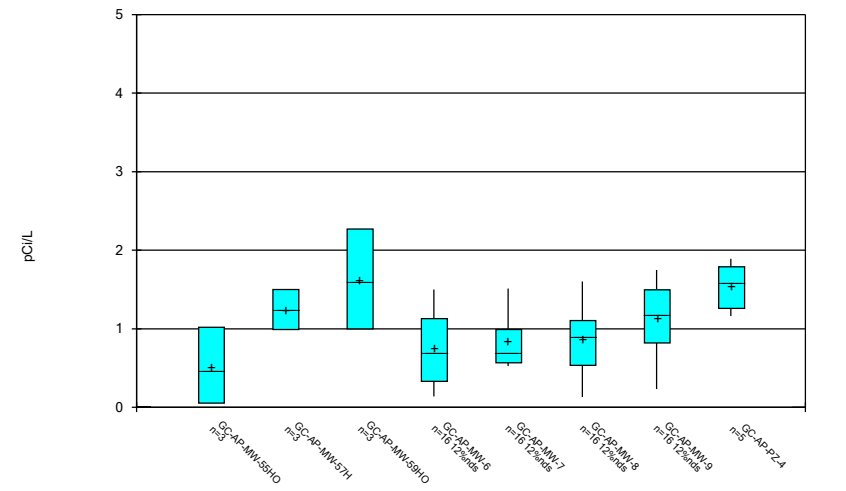
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



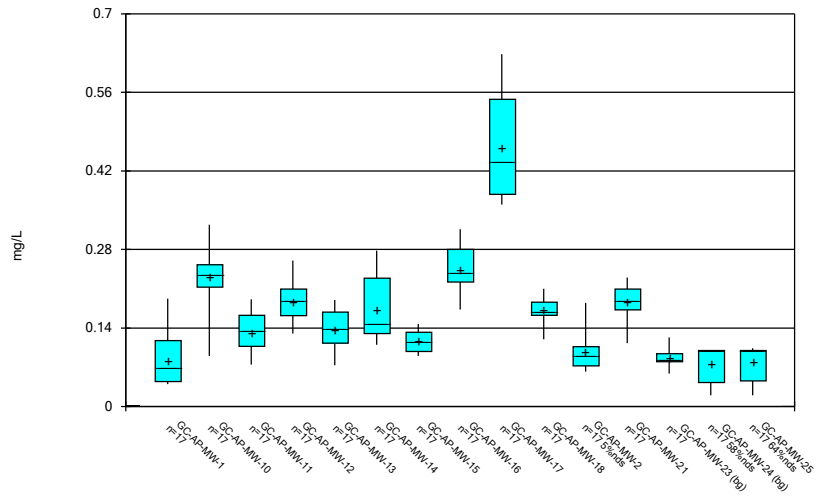
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



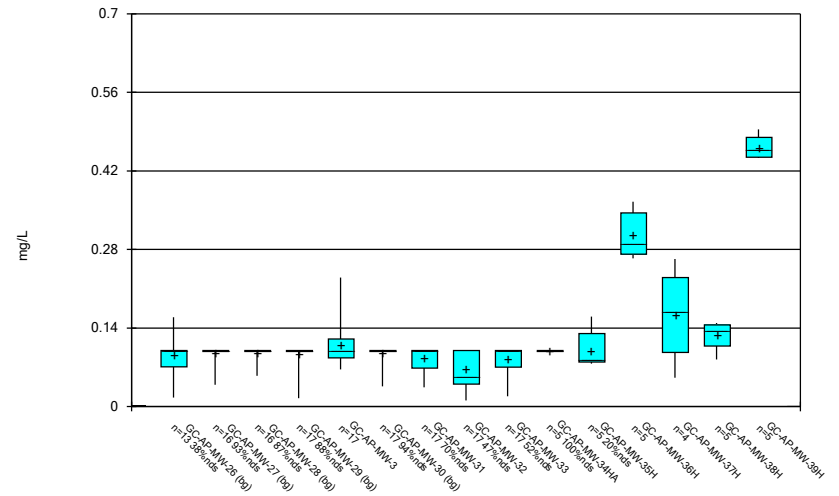
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



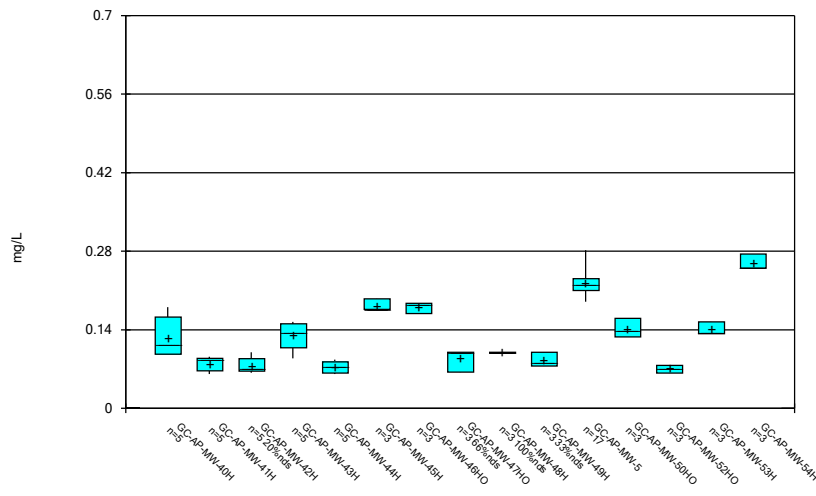
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Box & Whiskers Plot



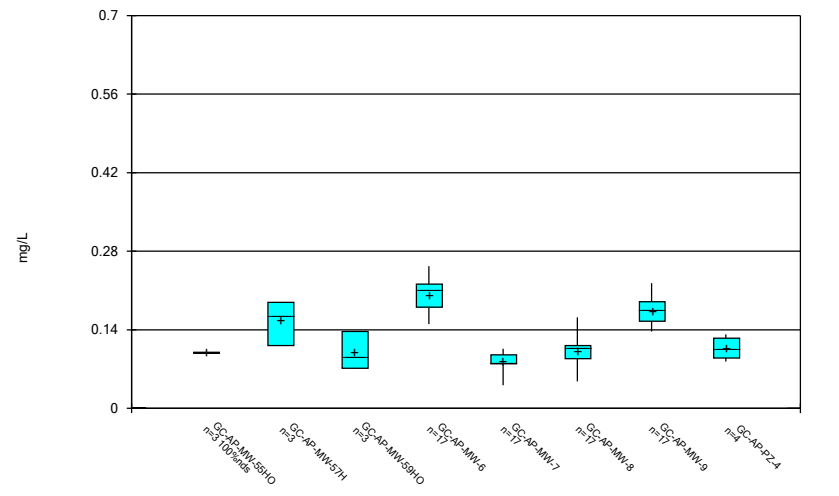
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Box & Whiskers Plot



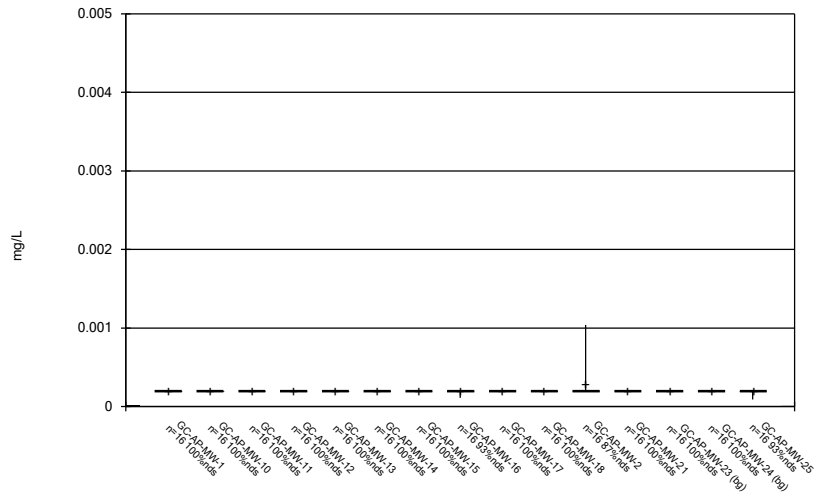
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



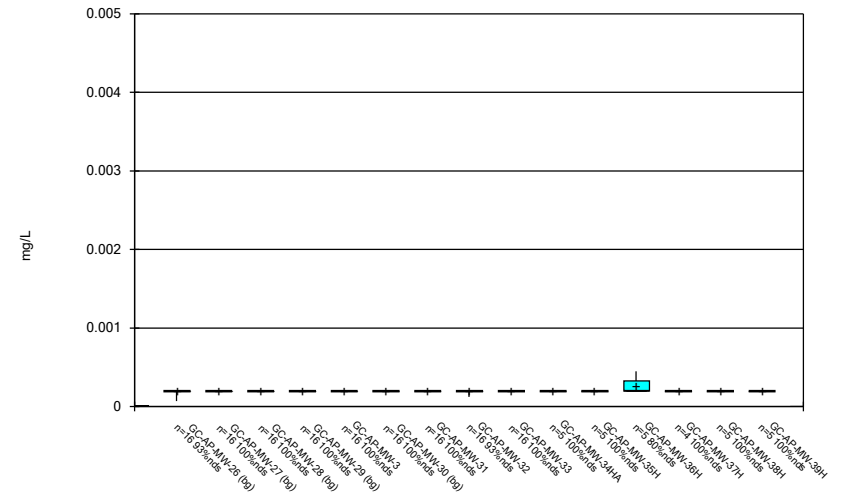
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



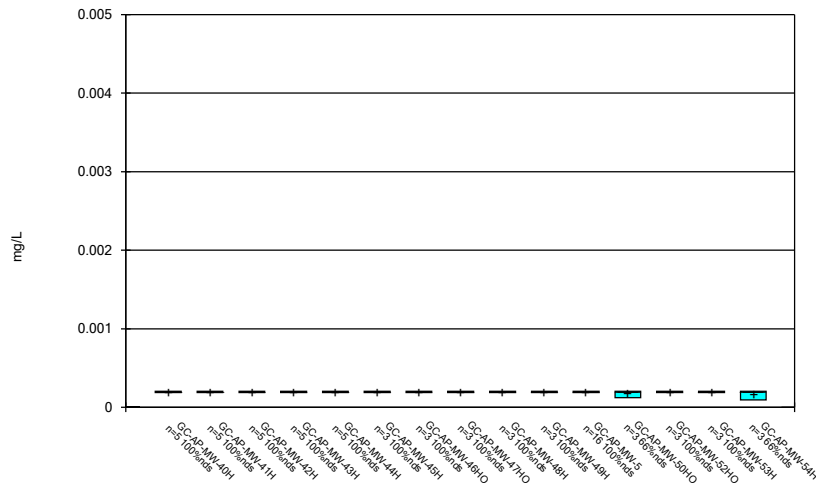
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



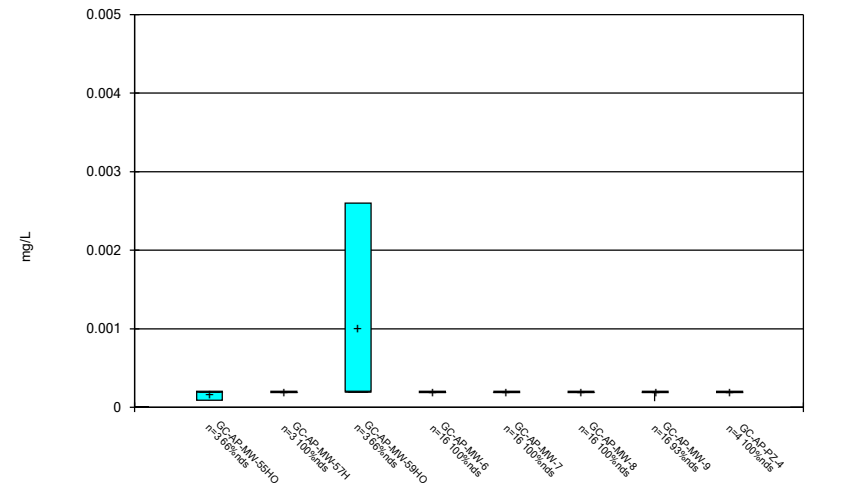
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



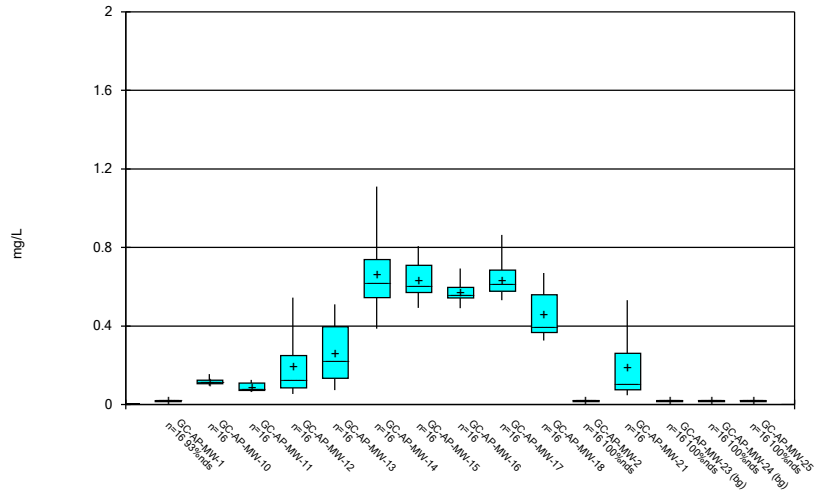
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



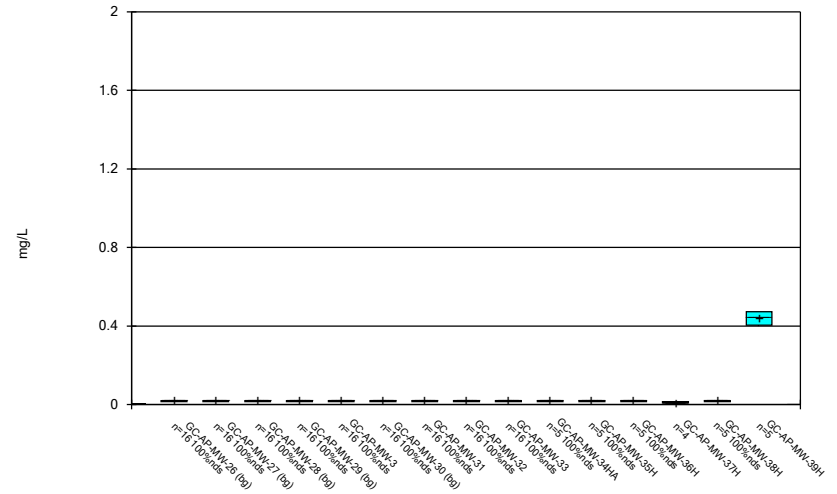
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Box & Whiskers Plot



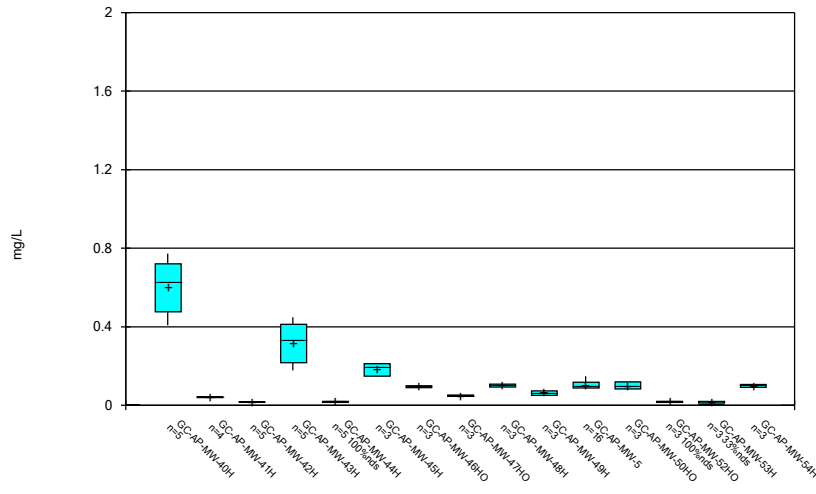
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Box & Whiskers Plot



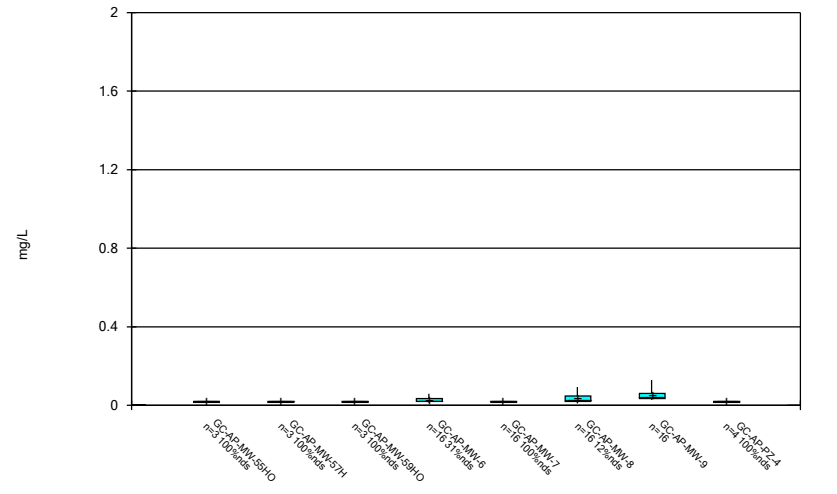
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Box & Whiskers Plot



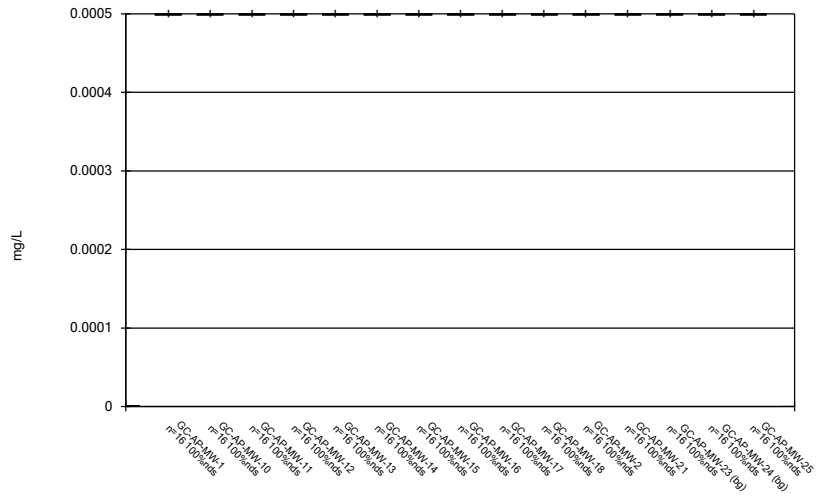
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Box & Whiskers Plot



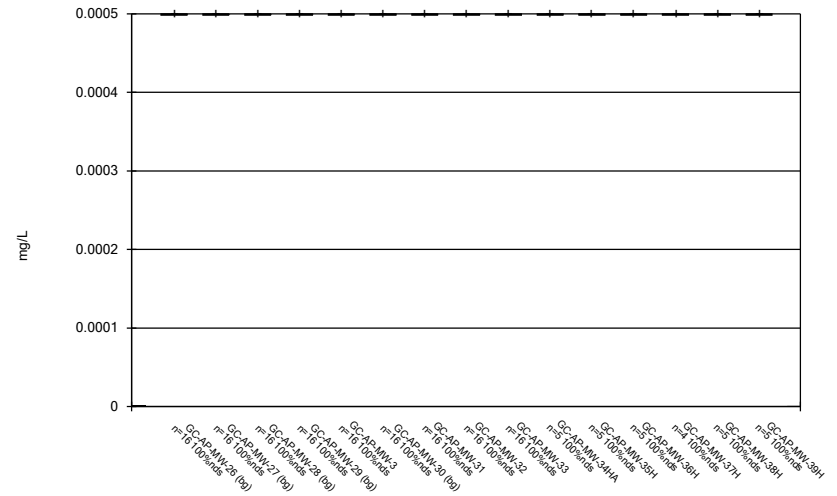
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Box & Whiskers Plot



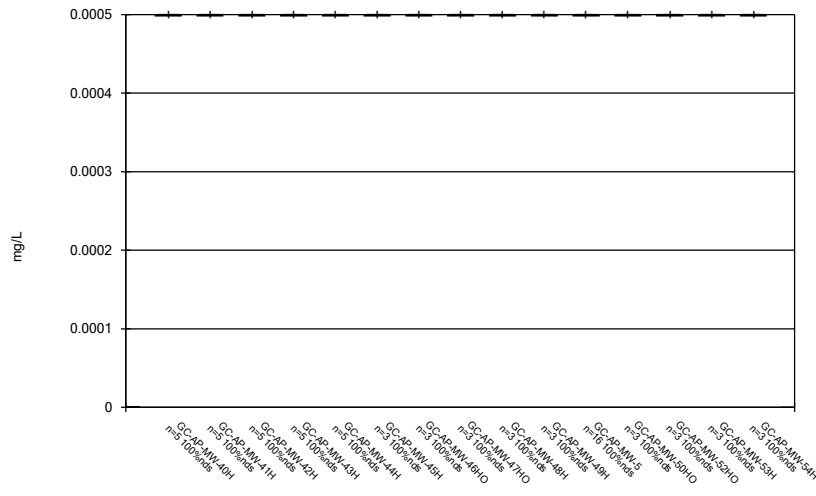
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



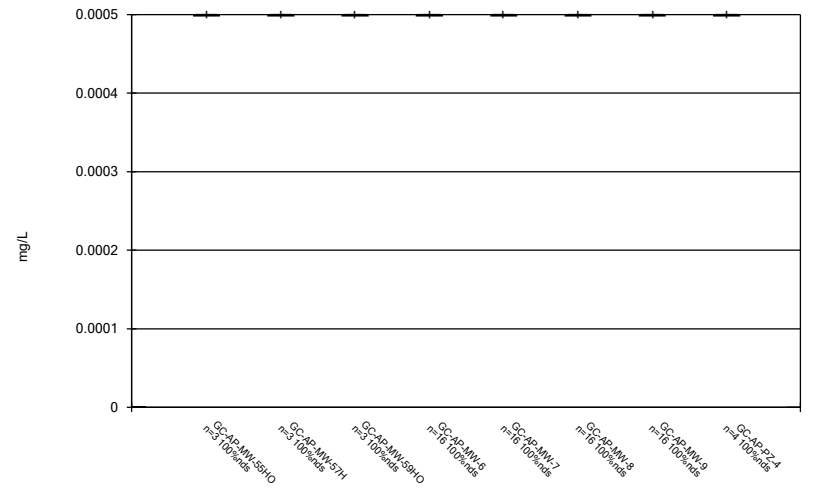
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



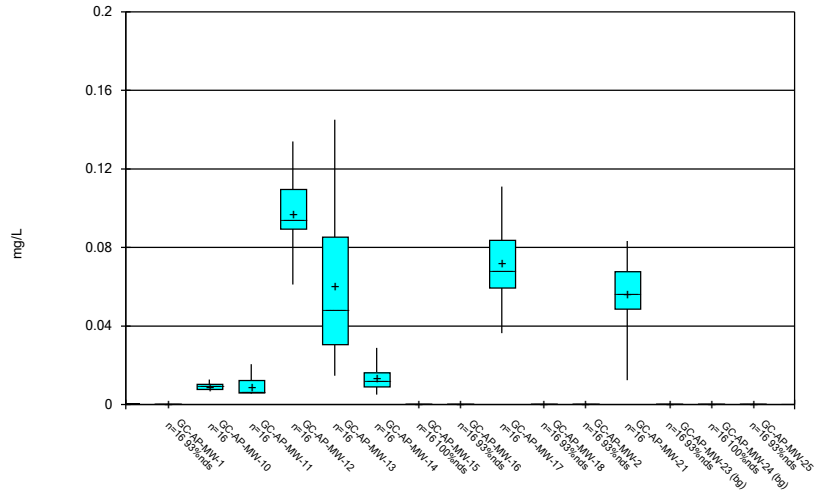
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



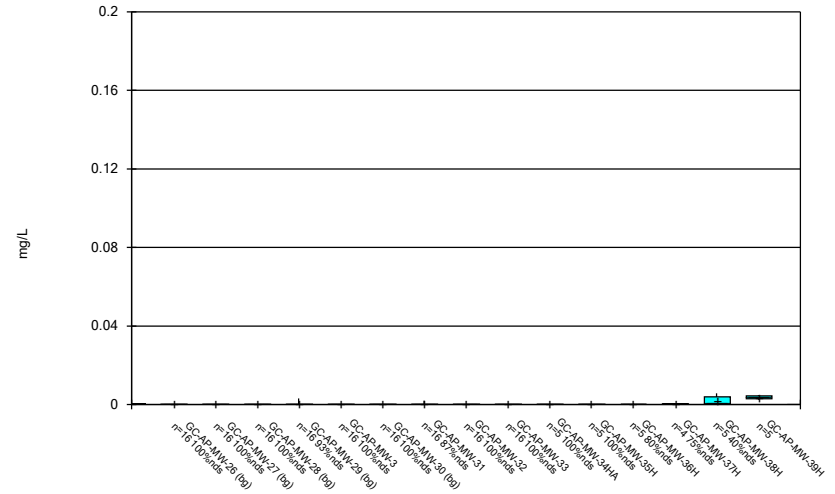
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



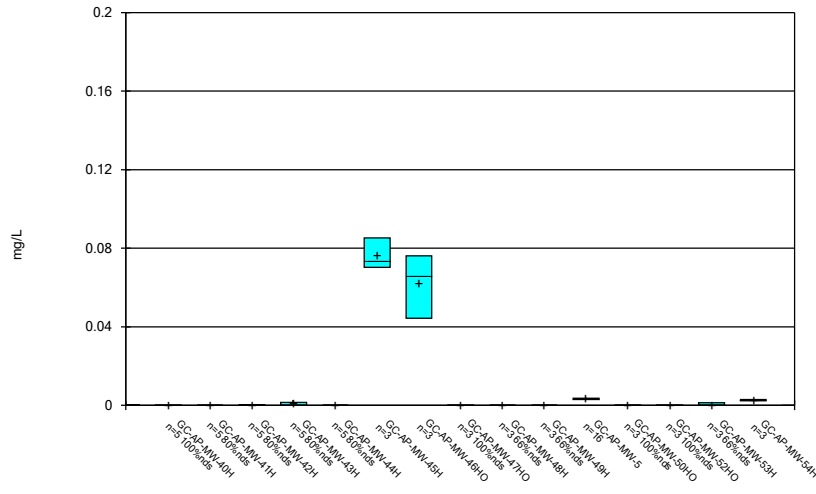
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



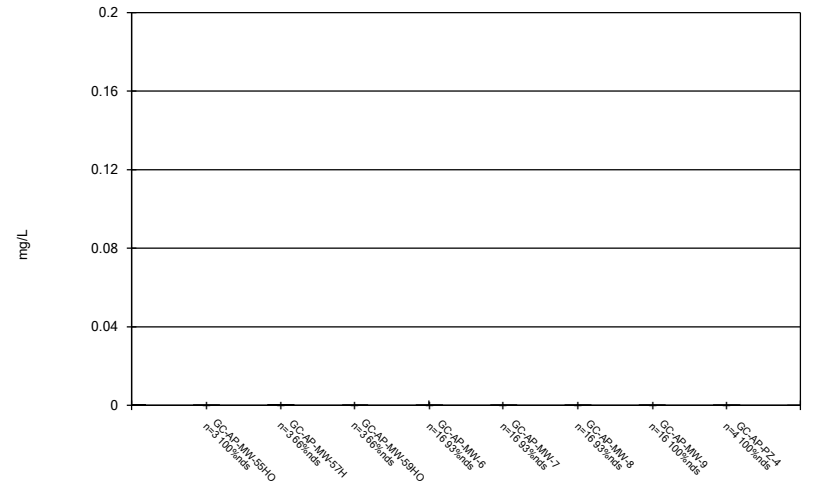
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



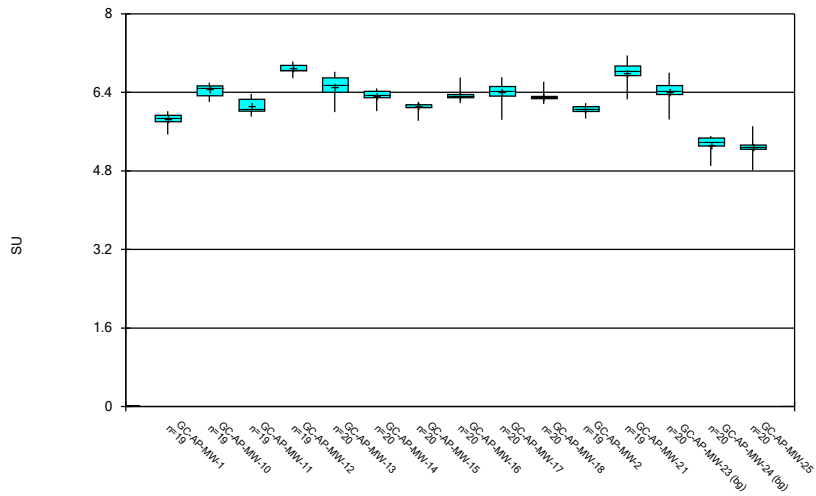
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



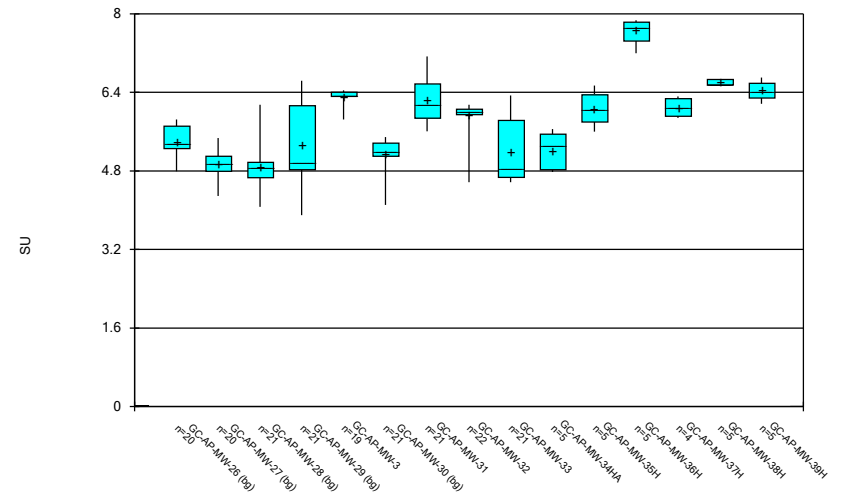
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Box & Whiskers Plot



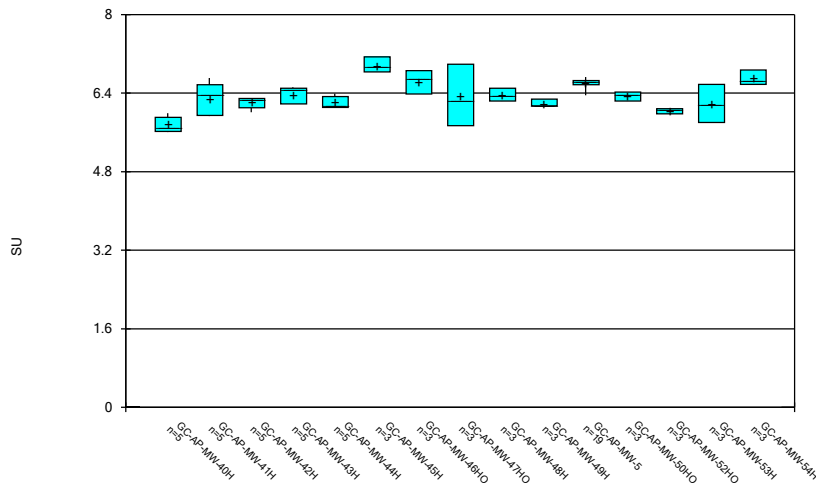
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



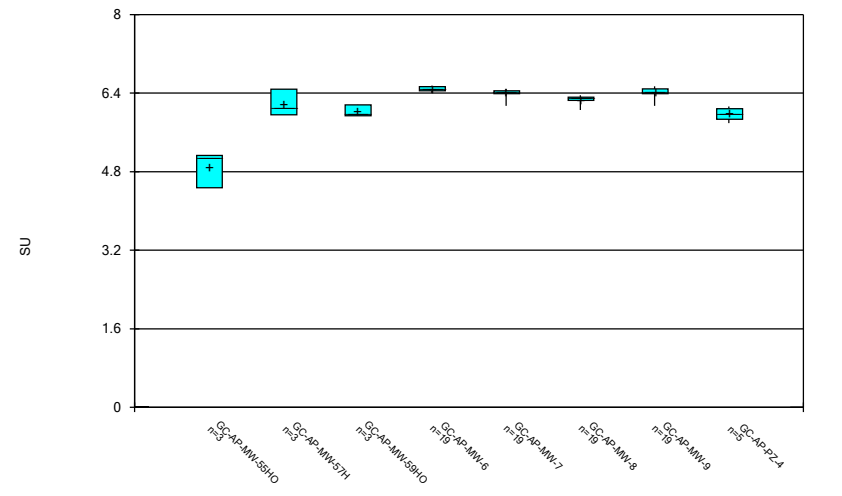
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



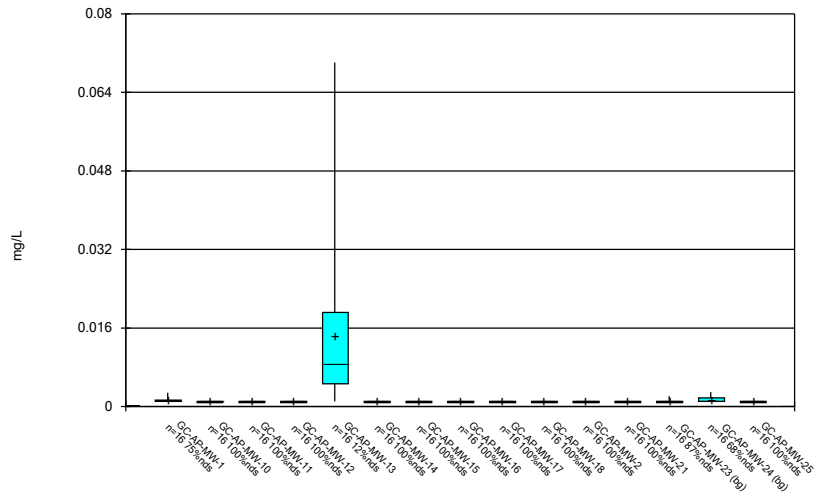
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Box & Whiskers Plot



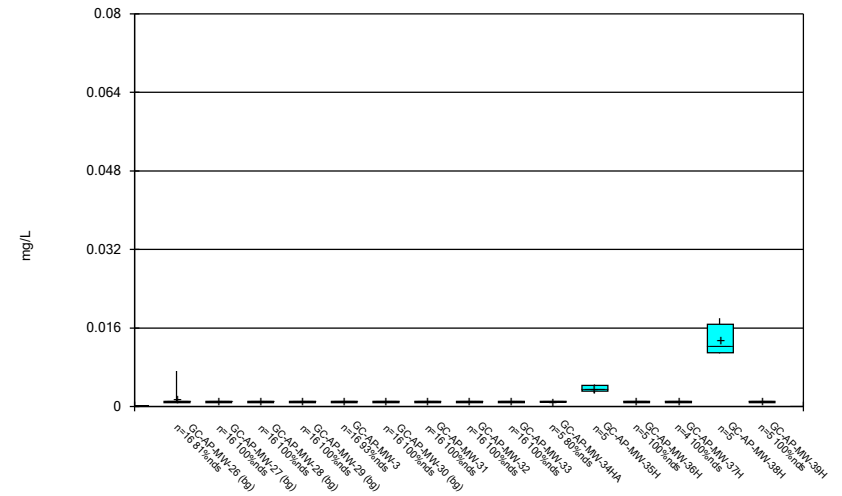
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



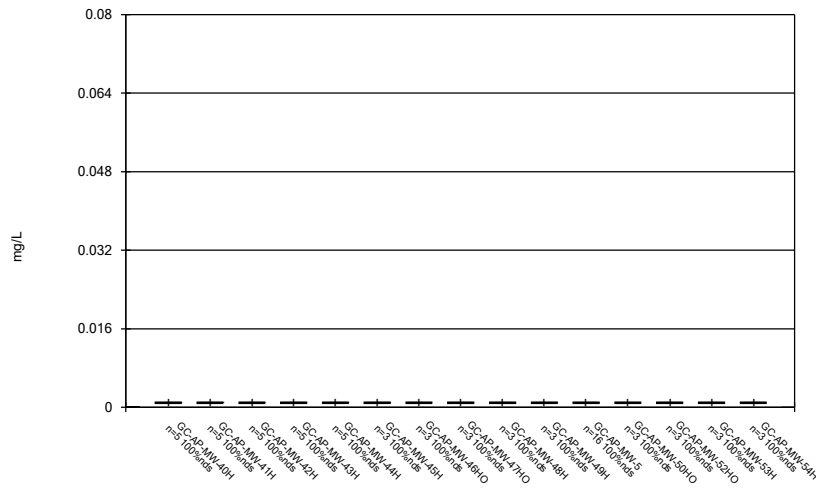
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Box & Whiskers Plot



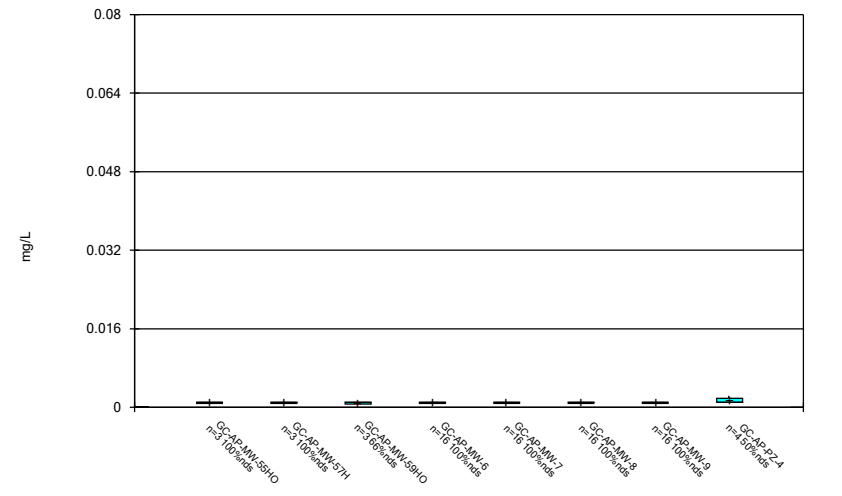
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Box & Whiskers Plot



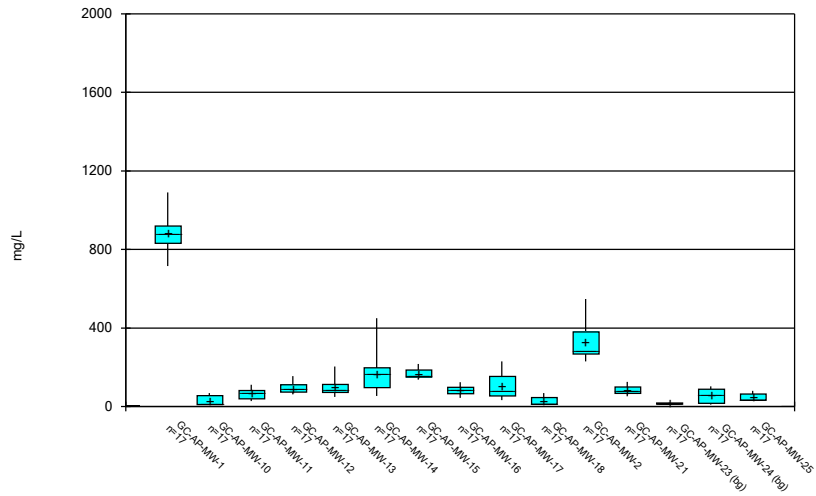
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Box & Whiskers Plot



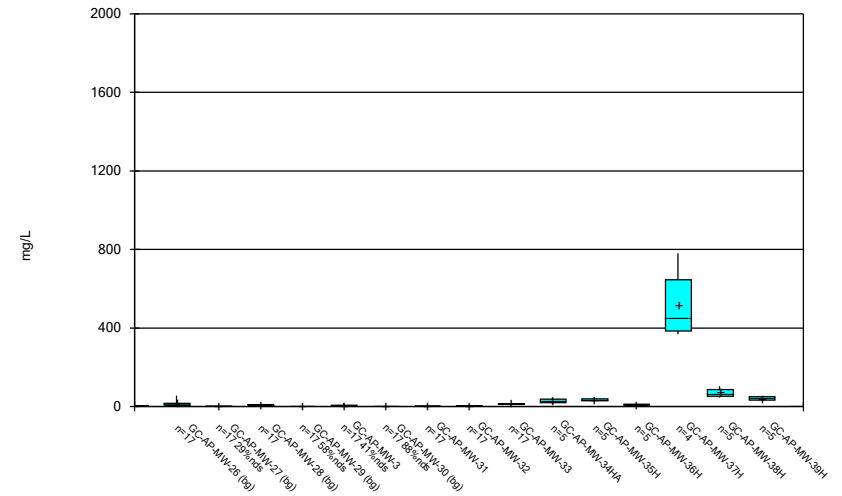
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Box & Whiskers Plot



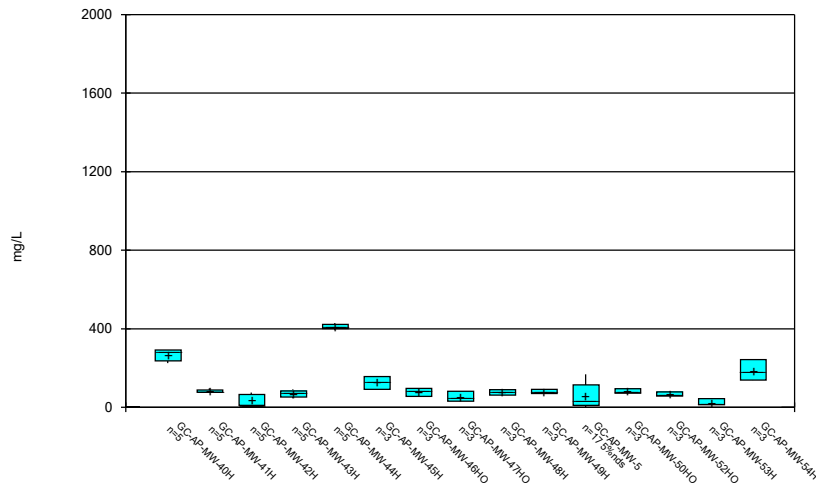
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Box & Whiskers Plot



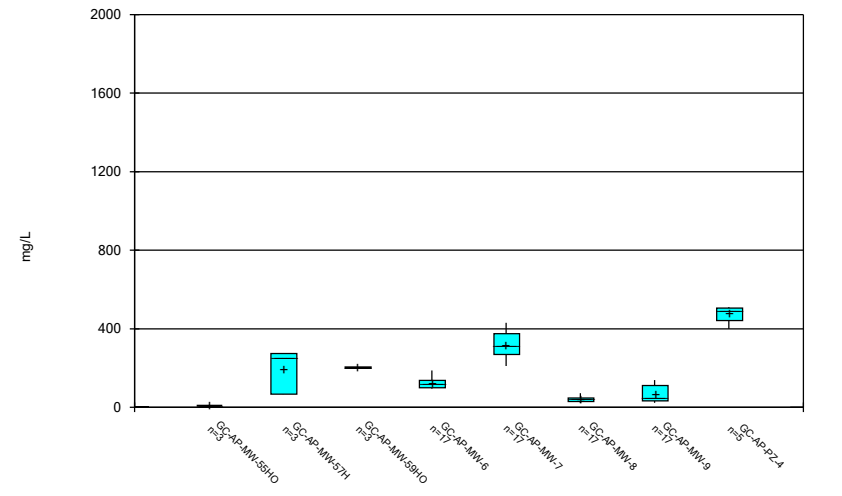
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Box & Whiskers Plot



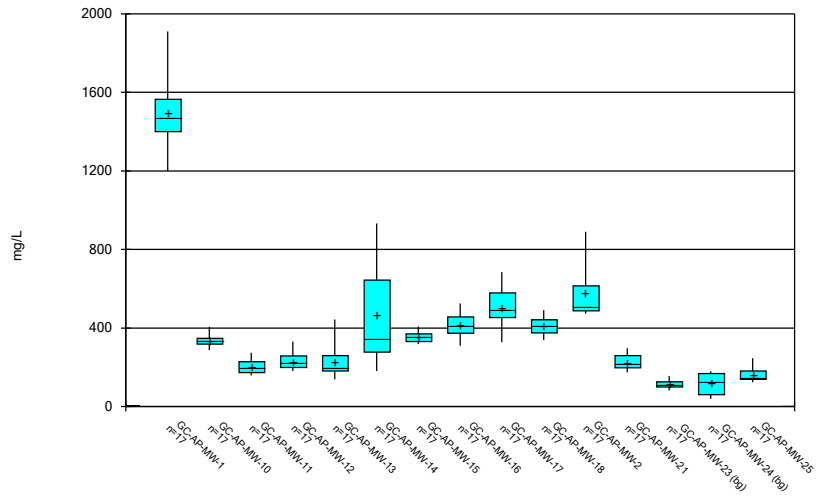
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Box & Whiskers Plot



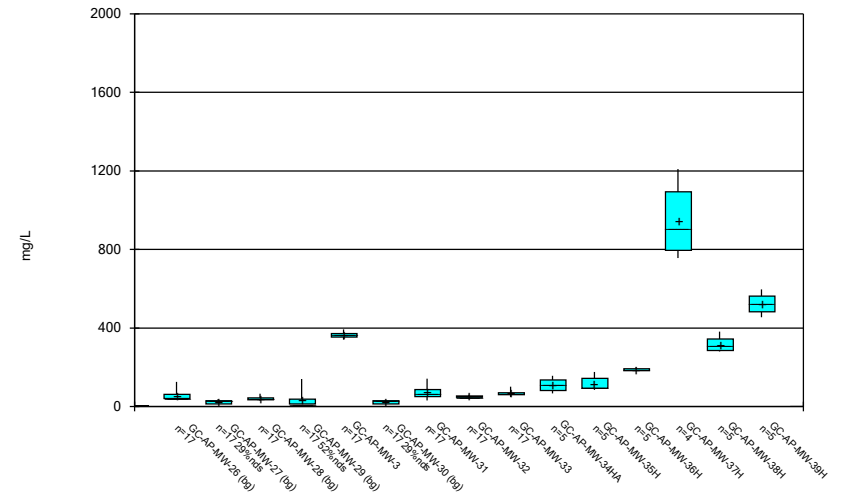
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Box & Whiskers Plot



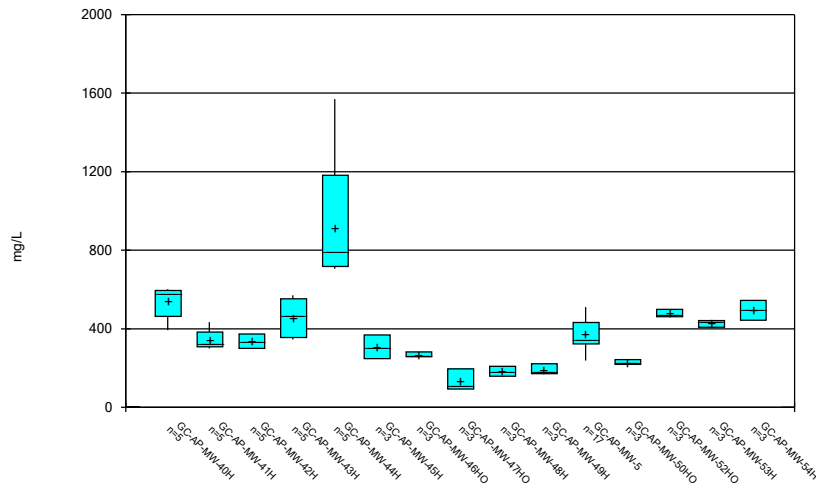
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Box & Whiskers Plot



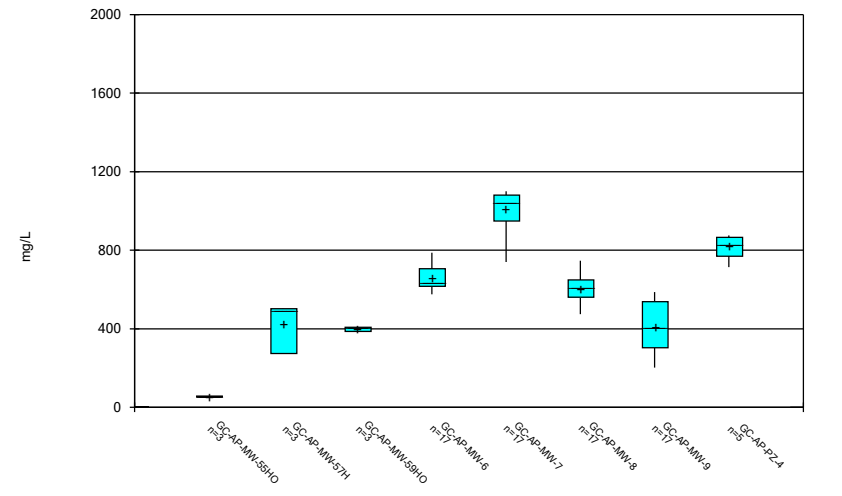
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Box & Whiskers Plot



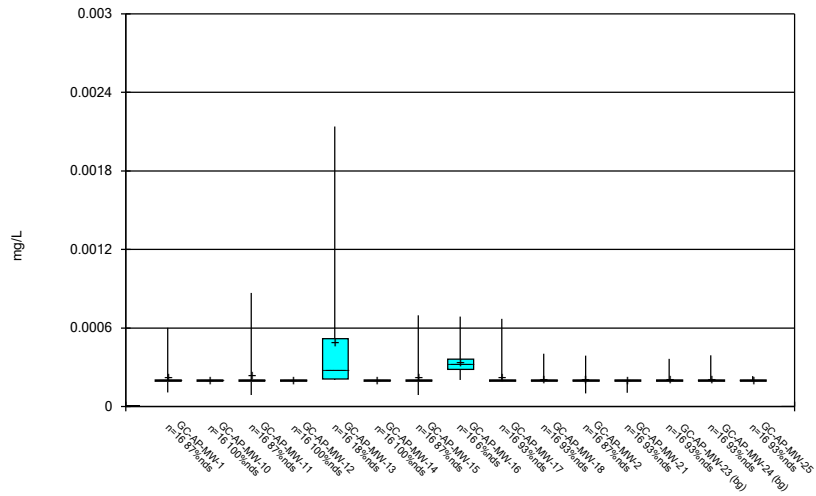
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Box & Whiskers Plot



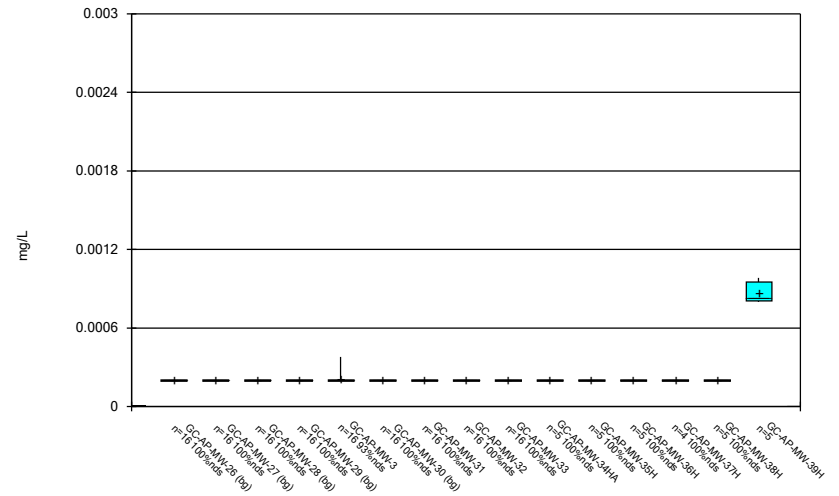
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Box & Whiskers Plot



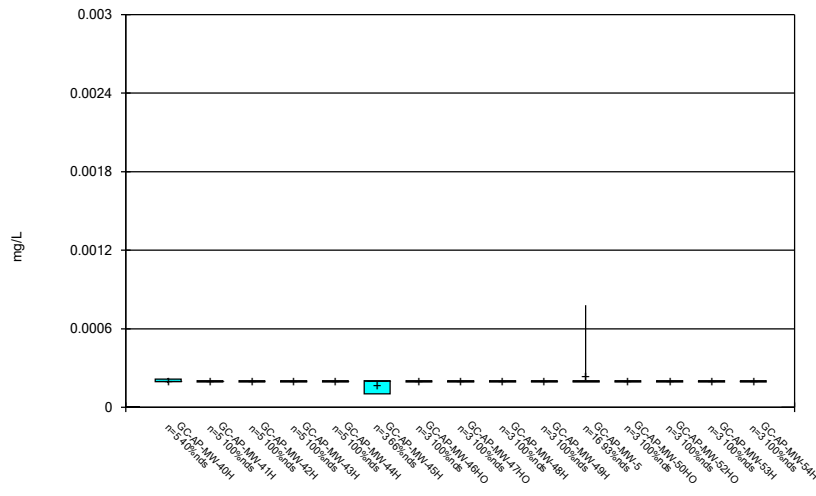
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Box & Whiskers Plot



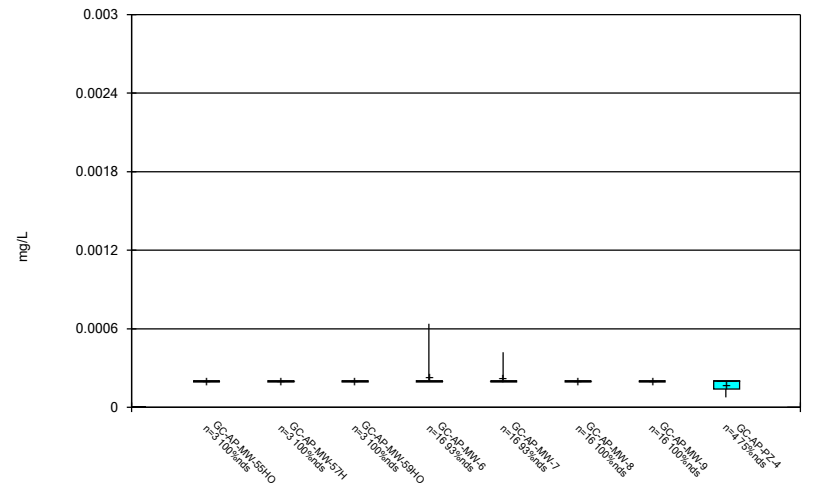
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/20/2021 5:43 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/20/2021 5:43 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE C.

Outlier Summary

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/21/2021, 12:43 PM

GC-AP-MW-26 Fluoride (mg/L)
GC-AP-MW-27 Fluoride (mg/L)
GC-AP-MW-28 Fluoride (mg/L)

9/20/2016	0.01 (o)	0.021 (o)
3/13/2017	0.31 (o)	
5/9/2017	0.25 (o)	
6/27/2017	0.22 (o)	
8/29/2017	0.22 (o)	

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:12 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)	GC-AP-MW-1	0.1015	n/a	3/16/2021	0.313	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	3/15/2021	1.79	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	3/10/2021	0.502	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	3/10/2021	0.389	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	3/15/2021	0.523	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	3/9/2021	1.81	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	3/10/2021	0.825	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	3/9/2021	1.94	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	3/9/2021	2.45	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	3/9/2021	1.52	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	3/16/2021	0.134	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	3/10/2021	0.528	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	3/10/2021	0.146	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	3/16/2021	0.694	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	3/9/2021	1.49	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	3/9/2021	0.397	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	3/9/2021	1.57	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	3/9/2021	1.12	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	3/16/2021	109	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	3/15/2021	73.8	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	3/10/2021	55.1	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	3/15/2021	68.9	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	3/9/2021	115	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	3/10/2021	67.4	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	3/9/2021	101	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	3/9/2021	118	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	3/9/2021	82	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	3/16/2021	145	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	3/10/2021	44.9	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	3/16/2021	66.6	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	3/16/2021	99.7	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	3/9/2021	119	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	3/9/2021	160	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	3/9/2021	100	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	3/9/2021	82.1	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.865	n/a	3/16/2021	16.6	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.865	n/a	3/15/2021	23.2	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.865	n/a	3/10/2021	17.1	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.865	n/a	3/10/2021	9.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.865	n/a	3/15/2021	7.68	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.865	n/a	3/9/2021	10.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.865	n/a	3/10/2021	11.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.865	n/a	3/9/2021	12	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.865	n/a	3/9/2021	14.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.865	n/a	3/9/2021	25.2	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.865	n/a	3/16/2021	11.6	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.865	n/a	3/10/2021	20.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.865	n/a	3/10/2021	25.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.865	n/a	3/16/2021	24.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.865	n/a	3/16/2021	10.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-6	5.865	n/a	3/9/2021	47.5	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.865	n/a	3/9/2021	80.7	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.865	n/a	3/9/2021	106	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.865	n/a	3/9/2021	53.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	3/15/2021	0.324	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	3/10/2021	0.161	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	3/9/2021	0.263	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	3/9/2021	0.286	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	3/9/2021	0.628	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	3/9/2021	0.205	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	3/16/2021	0.185	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	3/16/2021	0.23	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	3/16/2021	0.282	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	3/9/2021	0.17	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.9	3/10/2021	6.89	Yes	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	3/16/2021	933	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/10/2021	155	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	3/15/2021	204	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	3/9/2021	165	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/10/2021	136	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/16/2021	548	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	3/16/2021	167	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/9/2021	187	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/9/2021	347	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/9/2021	107	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	3/16/2021	1620	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	3/15/2021	406	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	3/10/2021	274	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	3/10/2021	331	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	3/15/2021	374	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	3/9/2021	618	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	3/10/2021	397	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	3/9/2021	524	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	3/9/2021	684	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	3/9/2021	412	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	3/16/2021	890	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	3/10/2021	296	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	3/10/2021	246	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	3/16/2021	340	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	3/16/2021	510	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	179	n/a	3/9/2021	716	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	3/9/2021	1090	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	3/9/2021	746	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	3/9/2021	532	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:13 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)	GC-AP-MW-1	0.1015	n/a	3/16/2021	0.313	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	3/15/2021	1.79	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	3/10/2021	0.502	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	3/10/2021	0.389	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	3/15/2021	0.523	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	3/9/2021	1.81	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	3/10/2021	0.825	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	3/9/2021	1.94	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	3/9/2021	2.45	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	3/9/2021	1.52	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	3/16/2021	0.134	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	3/10/2021	0.528	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	3/10/2021	0.146	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	3/16/2021	0.0445J	No	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	3/15/2021	0.1015ND	No	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	3/15/2021	0.1015ND	No	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	3/15/2021	0.1015ND	No	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	3/16/2021	0.694	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	3/9/2021	1.49	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	3/9/2021	0.397	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	3/9/2021	1.57	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	3/9/2021	1.12	Yes	112	n/a	n/a	92.86	n/a	n/a	0.0001563	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	3/16/2021	109	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	3/15/2021	73.8	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.8	n/a	3/10/2021	39.9	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	3/10/2021	55.1	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	3/15/2021	68.9	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	3/9/2021	115	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	3/10/2021	67.4	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	3/9/2021	101	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	3/9/2021	118	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	3/9/2021	82	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	3/16/2021	145	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	3/10/2021	44.9	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.8	n/a	3/10/2021	29.3	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	3/16/2021	66.6	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	42.8	n/a	3/15/2021	5.9	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	42.8	n/a	3/15/2021	2.02	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	42.8	n/a	3/15/2021	9.77	No	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	3/16/2021	99.7	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	3/9/2021	119	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	3/9/2021	160	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	3/9/2021	100	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	3/9/2021	82.1	Yes	119	n/a	n/a	0	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.865	n/a	3/16/2021	16.6	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.865	n/a	3/15/2021	23.2	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.865	n/a	3/10/2021	17.1	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.865	n/a	3/10/2021	9.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.865	n/a	3/15/2021	7.68	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.865	n/a	3/9/2021	10.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-15	5.865	n/a	3/10/2021	11.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.865	n/a	3/9/2021	12	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.865	n/a	3/9/2021	14.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.865	n/a	3/9/2021	25.2	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.865	n/a	3/16/2021	11.6	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.865	n/a	3/10/2021	20.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.865	n/a	3/10/2021	25.3	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.865	n/a	3/16/2021	24.4	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.865	n/a	3/15/2021	5.47	No	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.865	n/a	3/15/2021	5.57	No	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.865	n/a	3/15/2021	4.18	No	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.865	n/a	3/16/2021	10.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.865	n/a	3/9/2021	47.5	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.865	n/a	3/9/2021	80.7	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.865	n/a	3/9/2021	106	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.865	n/a	3/9/2021	53.9	Yes	119	0.756	0.475	4.202	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	3/16/2021	0.129	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	3/15/2021	0.324	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	3/10/2021	0.0749J	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	3/10/2021	0.161	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	3/15/2021	0.0737J	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	3/9/2021	0.263	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	3/10/2021	0.115	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	3/9/2021	0.286	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	3/9/2021	0.628	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	3/9/2021	0.205	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	3/16/2021	0.185	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	3/10/2021	0.113	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	3/10/2021	0.104	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	3/16/2021	0.23	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	3/15/2021	0.1ND	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	3/15/2021	0.1ND	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	3/15/2021	0.1ND	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	3/16/2021	0.282	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	3/9/2021	0.17	Yes	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	3/9/2021	0.0949J	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	3/9/2021	0.109	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	3/9/2021	0.147	No	113	n/a	n/a	66.37	n/a	n/a	0.0001535	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.8	3.9	3/16/2021	5.67	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.9	3/15/2021	6.29	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.9	3/10/2021	5.97	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.9	3/10/2021	6.89	Yes	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-13	6.8	3.9	3/15/2021	6	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.9	3/9/2021	6.48	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.9	3/10/2021	6.08	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.9	3/9/2021	6.29	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.9	3/9/2021	6.52	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.9	3/9/2021	6.39	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.9	3/16/2021	5.87	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.9	3/10/2021	6.26	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (SU)	GC-AP-MW-25	6.8	3.9	3/10/2021	5.71	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.9	3/16/2021	6.23	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.9	3/15/2021	5.61	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.9	3/15/2021	4.57	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.9	3/15/2021	5.83	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.9	3/16/2021	6.64	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.9	3/9/2021	6.43	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.9	3/9/2021	6.45	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.9	3/9/2021	6.31	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.9	3/9/2021	6.14	No	143	n/a	n/a	0	n/a	n/a	0.0001909	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	3/16/2021	933	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	3/15/2021	68.5	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	3/10/2021	73.2	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/10/2021	155	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	3/15/2021	204	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	3/9/2021	165	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/10/2021	136	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	3/9/2021	43.9	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	3/9/2021	95.8	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	3/9/2021	11.6	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/16/2021	548	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	3/10/2021	51.7	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	3/10/2021	70.3	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	3/16/2021	7.62	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	3/15/2021	3.74	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	3/15/2021	8.5	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	3/15/2021	2.76	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	3/16/2021	167	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/9/2021	187	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/9/2021	347	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	3/9/2021	71.7	No	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/9/2021	107	Yes	119	n/a	n/a	25.21	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	3/16/2021	1620	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	3/15/2021	406	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	3/10/2021	274	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	3/10/2021	331	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	3/15/2021	374	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	3/9/2021	618	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	3/10/2021	397	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	3/9/2021	524	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	3/9/2021	684	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	3/9/2021	412	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	3/16/2021	890	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	3/10/2021	296	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	3/10/2021	246	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	3/16/2021	340	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	179	n/a	3/15/2021	49.3	No	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	179	n/a	3/15/2021	46	No	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	179	n/a	3/15/2021	48	No	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	3/16/2021	510	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2

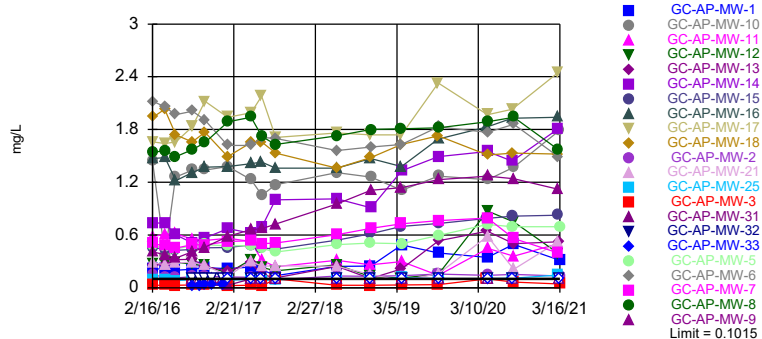
Interwell Prediction Limits - All Results

Plant: Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:13 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)	GC-AP-MW-6	179	n/a	3/9/2021	716	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	3/9/2021	1090	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	3/9/2021	746	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	3/9/2021	532	Yes	119	n/a	n/a	15.97	n/a	n/a	0.0001365	NP Inter (normality) 1 of 2

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit
Interwell Non-parametric

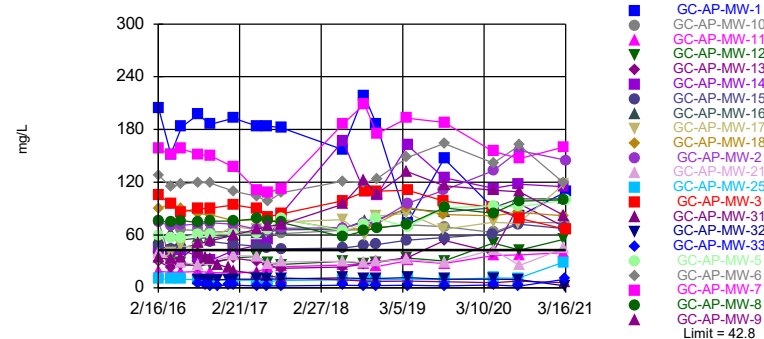


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 112 background values. 92.86% NDs. Annual per-constituent alpha = 0.006855. Individual comparison alpha = 0.0001563 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 5/20/2021 5:10 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16,...

Prediction Limit
Interwell Non-parametric

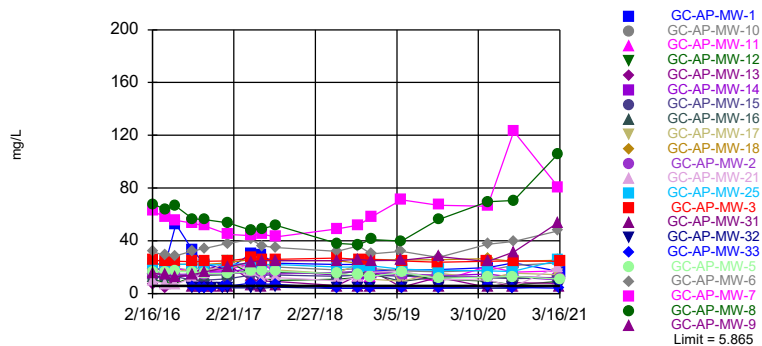


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. Annual per-constituent alpha = 0.005987. Individual comparison alpha = 0.0001365 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 5/20/2021 5:10 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit
Interwell Parametric



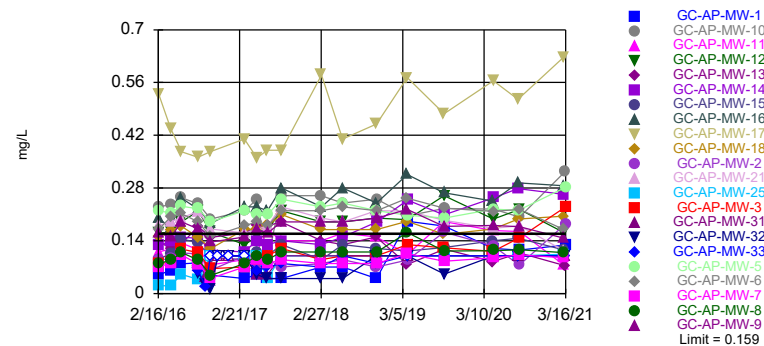
Background Data Summary (based on natural log transformation): Mean=0.756, Std. Dev.=0.475, n=119, 4.202% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 10.5, critical = 14.07. Kappa = 2.133 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Chloride Analysis Run 5/20/2021 5:10 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2,...

Prediction Limit
Interwell Non-parametric

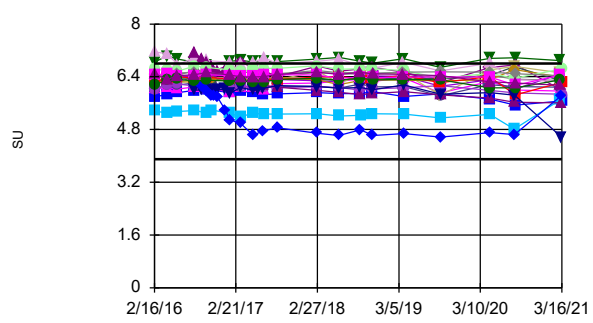


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 113 background values. 66.37% NDs. Annual per-constituent alpha = 0.006731. Individual comparison alpha = 0.0001535 (1 of 2). Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 5/20/2021 5:10 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limits: GC-AP-MW-12

Prediction Limit
Interwell Non-parametric



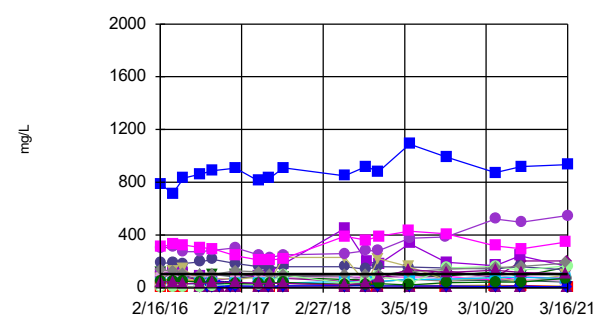
- GC-AP-MW-1
 - GC-AP-MW-10
 - ▲ GC-AP-MW-11
 - ▼ GC-AP-MW-12
 - ◆ GC-AP-MW-13
 - ◇ GC-AP-MW-14
 - GC-AP-MW-15
 - ▲ GC-AP-MW-16
 - ▼ GC-AP-MW-17
 - ◆ GC-AP-MW-18
 - ◇ GC-AP-MW-2
 - GC-AP-MW-21
 - ▲ GC-AP-MW-25
 - ▼ GC-AP-MW-3
 - ◆ GC-AP-MW-31
 - ◇ GC-AP-MW-32
 - GC-AP-MW-33
 - ▲ GC-AP-MW-5
 - ▼ GC-AP-MW-6
 - ◆ GC-AP-MW-7
 - ◇ GC-AP-MW-8
 - GC-AP-MW-9
- Limit = 6.8
Limit = 3.9

Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 143 background values. Annual per-constituent alpha = 0.008383. Individual comparison alpha = 0.0001909 (1 of 2). Comparing 22 points to limit.

Constituent: pH Analysis Run 5/20/2021 5:10 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-2, GC-AP-MW-5...

Prediction Limit
Interwell Non-parametric



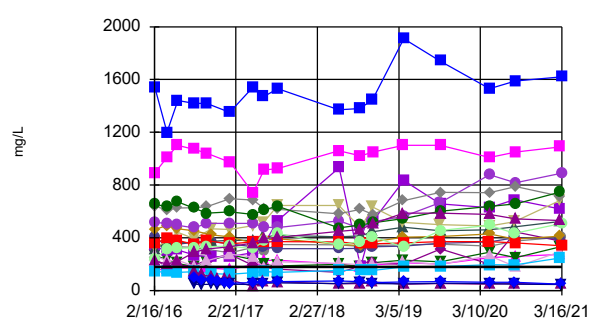
- GC-AP-MW-1
 - GC-AP-MW-10
 - ▲ GC-AP-MW-11
 - ▼ GC-AP-MW-12
 - ◆ GC-AP-MW-13
 - ◇ GC-AP-MW-14
 - GC-AP-MW-15
 - ▲ GC-AP-MW-16
 - ▼ GC-AP-MW-17
 - ◆ GC-AP-MW-18
 - ◇ GC-AP-MW-2
 - GC-AP-MW-21
 - ▲ GC-AP-MW-25
 - ▼ GC-AP-MW-3
 - ◆ GC-AP-MW-31
 - ◇ GC-AP-MW-32
 - GC-AP-MW-33
 - ▲ GC-AP-MW-5
 - ▼ GC-AP-MW-6
 - ◆ GC-AP-MW-7
 - ◇ GC-AP-MW-8
 - GC-AP-MW-9
- Limit = 103

Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. 25.21% NDs. Annual per-constituent alpha = 0.005987. Individual comparison alpha = 0.0001365 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 5/20/2021 5:10 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15...

Prediction Limit
Interwell Non-parametric



- GC-AP-MW-1
 - GC-AP-MW-10
 - ▲ GC-AP-MW-11
 - ▼ GC-AP-MW-12
 - ◆ GC-AP-MW-13
 - ◇ GC-AP-MW-14
 - GC-AP-MW-15
 - ▲ GC-AP-MW-16
 - ▼ GC-AP-MW-17
 - ◆ GC-AP-MW-18
 - ◇ GC-AP-MW-2
 - GC-AP-MW-21
 - ▲ GC-AP-MW-25
 - ▼ GC-AP-MW-3
 - ◆ GC-AP-MW-31
 - ◇ GC-AP-MW-32
 - GC-AP-MW-33
 - ▲ GC-AP-MW-5
 - ▼ GC-AP-MW-6
 - ◆ GC-AP-MW-7
 - ◇ GC-AP-MW-8
 - GC-AP-MW-9
- Limit = 179

Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. 15.97% NDs. Annual per-constituent alpha = 0.005987. Individual comparison alpha = 0.0001365 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 5/20/2021 5:10 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016									
2/17/2016	0.478	0.454	1.47	1.66	1.94	0.0288 (J)	0.146	0.0271 (J)	<0.1015
4/12/2016	0.467	0.444			2.03	0.0293 (J)		<0.1015	<0.1015
4/13/2016			1.48	1.64			0.125		
5/31/2016	0.443	0.424							
6/1/2016			1.22	1.66	1.74	0.0279 (J)	0.114	<0.1015	<0.1015
8/15/2016			1.31	1.83	1.66	0.0332 (J)	0.128		
8/16/2016		0.438						<0.1015	<0.1015
8/17/2016	0.477								
9/19/2016									
9/20/2016									
10/11/2016	0.489	0.456				0.0328 (J)	0.129	0.024 (J)	<0.1015
10/12/2016			1.37	2.12	1.77				
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	0.475	0.458	1.38	1.94	1.49	0.0262 (J)	0.124	0.0333 (J)	<0.1015
1/25/2017									
1/26/2017									
5/9/2017	0.479					0.0298 (J)	0.121	<0.1015	
5/10/2017		0.486	1.41	1.99	1.65				<0.1015
6/27/2017		0.454	1.43	2.18	1.66			<0.1015	
6/28/2017	0.448					0.0226 (J)	0.111		<0.1015
8/29/2017								<0.1015	<0.1015
8/30/2017	0.407	0.441	1.36	1.71	1.53	<0.1015	0.0915 (J)		
6/4/2018						0.0296 (J)	0.134		
6/5/2018	0.489	0.543	1.36	1.76	1.36			<0.1015	<0.1015
6/6/2018									
11/5/2018									
11/6/2018	0.508	0.614	1.47	1.74	1.48	0.0268 (J)	0.131		
11/7/2018								<0.1015	<0.1015
3/26/2019		0.697	1.38	1.74	1.63			<0.1015	<0.1015
3/27/2019	0.502					0.0316 (J)	0.138		
9/9/2019				2.33	1.73	0.035 (J)	0.157		
9/10/2019		0.73	1.69					<0.1015	<0.1015
9/11/2019	0.595								
4/20/2020		0.791	1.83			<0.1015			
4/21/2020	0.72			1.97	1.51		0.14	<0.1015	
4/22/2020									<0.1015
8/11/2020			1.93	2.03					
8/12/2020	0.695	0.813			1.53			<0.1015	<0.1015
8/17/2020						0.0636 (J)	0.152		
8/18/2020									
8/19/2020									
3/9/2021			1.94	2.45	1.52				
3/10/2021		0.825						<0.1015	<0.1015
3/15/2021									
3/16/2021	0.694					0.0445 (J)	0.134		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	0.581	0.219	0.0922 (J)						
4/12/2016			0.0935 (J)						
4/13/2016	0.61	0.211							
5/31/2016	0.615								
6/1/2016		0.2	0.0826 (J)						
8/15/2016		0.211							
8/16/2016	0.554			<0.1015	0.0268 (J)	<0.1015	<0.1015	<0.1015	
8/17/2016			0.092 (J)						<0.1015
9/19/2016					0.0225 (J)	<0.1015		<0.1015	
9/20/2016				<0.1015			<0.1015		<0.1015
10/11/2016		0.23	0.0976 (J)	<0.1015	0.0304 (J)	<0.1015	<0.1015	<0.1015	
10/12/2016	0.537								<0.1015
11/14/2016					0.0355 (J)	<0.1015		<0.1015	
11/15/2016				0.0229 (J)			<0.1015		<0.1015
1/3/2017					0.0304 (J)	<0.1015		<0.1015	
1/4/2017				<0.1015			<0.1015		<0.1015
1/23/2017							<0.1015		
1/24/2017		0.218	0.0877 (J)			0.0282 (J)		<0.1015	0.0331 (J)
1/25/2017	0.562				<0.1015				
1/26/2017				<0.1015					
5/9/2017	0.528	0.235	0.0953 (J)	<0.1015			<0.1015		<0.1015
5/10/2017					<0.1015	<0.1015		<0.1015	
6/27/2017		0.206		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/28/2017	0.313		0.0835 (J)						
8/29/2017	0.241		0.0914 (J)						
8/30/2017		0.138		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/4/2018		0.242							
6/5/2018	0.311			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/6/2018			0.102						
11/5/2018	0.262						<0.1015		
11/6/2018		0.247	0.0995 (J)	<0.1015	<0.1015	<0.1015	<0.1015		<0.1015
11/7/2018									
3/26/2019				<0.1015			<0.1015		<0.1015
3/27/2019	0.298	0.488	0.113		<0.1015	<0.1015		<0.1015	
9/9/2019									
9/10/2019	0.141	0.398	0.105						
9/11/2019				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
4/20/2020									
4/21/2020		0.347		<0.1015			<0.1015		<0.1015
4/22/2020	0.447		0.104		<0.1015	<0.1015		<0.1015	
8/11/2020			0.11			<0.1015			
8/12/2020					<0.1015		<0.1015		
8/17/2020		0.496							
8/18/2020	0.358			<0.1015			<0.1015		<0.1015
8/19/2020									
3/9/2021									
3/10/2021	0.502		0.146						
3/15/2021				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
3/16/2021		0.313							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	<0.1015	<0.1015
9/19/2016		
9/20/2016	<0.1015	<0.1015
10/11/2016		
10/12/2016	0.02 (J)	<0.1015
11/14/2016		
11/15/2016	<0.1015	<0.1015
1/3/2017		
1/4/2017	<0.1015	<0.1015
1/23/2017	0.0287 (J)	0.0217 (J)
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	<0.1015	<0.1015
5/10/2017		
6/27/2017	<0.1015	<0.1015
6/28/2017		
8/29/2017	<0.1015	<0.1015
8/30/2017		
6/4/2018		
6/5/2018	<0.1015	<0.1015
6/6/2018		
11/5/2018		
11/6/2018	<0.1015	<0.1015
11/7/2018		
3/26/2019	<0.1015	<0.1015
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.1015	<0.1015
4/20/2020		
4/21/2020	<0.1015	<0.1015
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1015	<0.1015
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.1015	<0.1015
3/16/2021		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
2/16/2016	75.9	76.3	33.9	40.4	34.6	29.8	44.4		
2/17/2016								158	128
4/12/2016						23.3	43.2		115
4/13/2016	74.1	30.5	32.5	32.2	32.2			151	
5/31/2016		65.9			28.8	25.9	43	158	118
6/1/2016	76.4		33.9	29.3					
8/15/2016									
8/16/2016		65.6		25.4	24	25.5			
8/17/2016	74.2		50.3				35.9	152	120
9/19/2016									
9/20/2016									
10/11/2016									119
10/12/2016	75.7	63.4	53.3	30.7	27.8	29.5	31.1	150	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									110
1/25/2017	76.1	64.2	59.9	36.8	33.7	33.6	42.7	137	
1/26/2017									
5/9/2017				36.1	35.5	30.4	48.1		
5/10/2017	78.6	62.6	66.5					111	104
6/27/2017									
6/28/2017	76.4	60.8	69.8	26.9	28	26	55	108	98
8/29/2017	74.1	61.4	72	29.4	26.4	22.3	83.6	113	108
8/30/2017									
6/4/2018									
6/5/2018	58	65.5	95.1					186	121
6/6/2018				30.2	30.1	23.7	167		
9/10/2018				28.8					
9/11/2018	64.9	66.1	122		27.4	26.8		209	119
9/12/2018							109		
11/5/2018				29.7	28.8	29.4			
11/6/2018									
11/7/2018	68.1	68.5	107				105	175	124
3/26/2019	72		132	32.4	33.7	34.1		193	148
3/27/2019		71.8					162		
9/9/2019									
9/10/2019	91	69.3	116	28.4	30.5		125	188	164
9/11/2019						53.9			
4/20/2020						40.3			
4/21/2020	84.8		111	43.1	51		113	155	142
4/22/2020		62.9							
8/11/2020							118		
8/12/2020									
8/17/2020									
8/18/2020		74.4	109	25.5	42.9	95.3			
8/19/2020	98.6							147	162
3/9/2021	100		82.1				115	160	119
3/10/2021				44.9	55.1				
3/15/2021		73.8				68.9			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

3/16/2021

GC-AP-MW-8 GC-AP-MW-10 GC-AP-MW-9 GC-AP-MW-21 GC-AP-MW-12 GC-AP-MW-13 GC-AP-MW-14 GC-AP-MW-7 GC-AP-MW-6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
3/16/2021	99.7					66.6	145		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	18.6	204	10.2						
4/12/2016			10						
4/13/2016	17.8	152							
5/31/2016	17.7								
6/1/2016		183	9.87						
8/15/2016		197							
8/16/2016	18.4			39.5	5.54	2.02	9.33	1.24	
8/17/2016			8.88						5.88
9/19/2016				34.5	3.01		9.26		
9/20/2016						1.22		1.11	5.95
10/11/2016		186	9.22	32.4	2.74	1.48	9.31	1.22	
10/12/2016	17.3								6.1
11/14/2016				26.5	2.47		9.17		
11/15/2016						1.36		1.34	6.28
1/3/2017				22.6	2.94		9.66		
1/4/2017						1.11		2.39	4.97
1/23/2017								1.83	5.17
1/24/2017		193	8.72	19.5			9.67		
1/25/2017	16.6				2.91				
1/26/2017						1.03			
5/9/2017	18	184	8.56			0.289 (J)		0.823	15.7
5/10/2017				15.7	2.27		9.81		
6/27/2017		184		13.8	2.2	0.292 (J)	9.88	0.956	14.2
6/28/2017	22.6		7.16						
8/29/2017	23.9		8.32						11.1
8/30/2017		182		11.1	2.26	0.336 (J)	10.3	1.04	
6/4/2018		157							
6/5/2018	25.7			9.12	2.97	0.2 (J)	11.4	1.18	3.93
6/6/2018			9.05						
9/10/2018	27.2	219							
9/11/2018				7.5	2.6	0.171 (J)	10.5	1.5	3.76
9/12/2018			8.98						
11/5/2018	24.1						10.5		
11/6/2018		186	9.21	7.39	2.42	0.193 (J)		1.64	4.81
11/7/2018									
3/26/2019						0.223 (J)		1.33	3.18
3/27/2019	31	73.8	9.77	7.65	2.75		11.6		
9/9/2019									
9/10/2019	27.7	147	9.28						
9/11/2019				6.96	2.17	0.158 (J)	9.95	0.925	3.98
4/20/2020									
4/21/2020		90.5				0.287 (J)		0.864	3.83
4/22/2020	36.7		11.3	5.92	3.15		9.87		
8/11/2020			10.7	7.46					
8/12/2020					1.78		9.48		
8/17/2020		81.5							
8/18/2020	37.6					0.231 (J)		0.926	4.58
8/19/2020									
3/9/2021									
3/10/2021	39.9		29.3						
3/15/2021				5.9	9.77	0.239 (J)	2.02	0.646	4.67

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

3/16/2021	GC-AP-MW-11	GC-AP-MW-1 109	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
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Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	7.74	1.1
9/19/2016		
9/20/2016	2.43	0.771
10/11/2016		
10/12/2016	2.46	0.711
11/14/2016		
11/15/2016	2.28	0.641
1/3/2017		
1/4/2017	2.7	0.797
1/23/2017		0.655
1/24/2017	4.19	
1/25/2017		
1/26/2017		
5/9/2017	3.28	0.538
5/10/2017		
6/27/2017	3.76	0.413 (J)
6/28/2017		
8/29/2017		0.504
8/30/2017	2.31	
6/4/2018		
6/5/2018	2.76	0.339 (J)
6/6/2018		
9/10/2018		
9/11/2018	2.04	0.776
9/12/2018		
11/5/2018		
11/6/2018	2	0.746
11/7/2018		
3/26/2019	2.13	0.526
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.98	0.638
4/20/2020		
4/21/2020	2.41	1.15
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	2.23	0.884
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	1.73	0.745

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

3/16/2021

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
2/16/2016	67.9	18.4	15.6	9.95	10.8	6.52	16.4		
2/17/2016								62.7	31.8
4/12/2016						4.47	15.9		28.9
4/13/2016	64.1	19	14.3	7.33	8.2			57.8	
5/31/2016		19.2			7.74	10.8	13.6	55.6	28.7
6/1/2016	66.3		12.6	6.97					
8/15/2016									
8/16/2016		17.7		12	12.5	16.6			
8/17/2016	56.7		14.4				12.8	53.3	32.2
9/19/2016									
9/20/2016									
10/11/2016									34.2
10/12/2016	56.1	16.8	16.4	15.4	15.7	18.5	16.3	51.2	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									38.1
1/25/2017	53.6	18.6	20	24.7	24.4	22	16.4	44.8	
1/26/2017									
5/9/2017				17	15	10	19		
5/10/2017	48	22	24					44	41
6/27/2017									
6/28/2017	49	20	25	11	12	9.4	17	45	36
8/29/2017	52	20	25	12	10	9.3	17	43	35
8/30/2017									
6/4/2018									
6/5/2018	38	18	25					49	32
6/6/2018				9.7	11	6.1	14		
9/10/2018				12					
9/11/2018	37	19	26		12	14		52	36
9/12/2018							14		
11/5/2018				16	17	18			
11/6/2018									
11/7/2018	41	19	25				15	58	30
3/26/2019	39.7		25.3	17.2	14.5	4.7		71	31.9
3/27/2019		17.1					14.9		
9/9/2019									
9/10/2019	56.1	16.5	28	11	10.9		13.5	67	27.3
9/11/2019						12.3			
4/20/2020						4.7			
4/21/2020	69.5		24.2	10.1	9.49		14.8	66.2	37.4
4/22/2020		17.6							
8/11/2020							12.7		
8/12/2020									
8/17/2020									
8/18/2020		21.3	31.4	5.54	6.46	8.24			
8/19/2020	70.5							123	39.6
3/9/2021	106		53.9				10.4	80.7	47.5
3/10/2021				20.4	9.3				
3/15/2021		23.2				7.68			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

3/16/2021

GC-AP-MW-8 GC-AP-MW-10 GC-AP-MW-9 GC-AP-MW-21 GC-AP-MW-12 GC-AP-MW-13 GC-AP-MW-14 GC-AP-MW-7 GC-AP-MW-6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
3/16/2021	10.9					24.4	11.6		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	16.6	16	22.9						
4/12/2016			22.2						
4/13/2016	17	21.5							
5/31/2016	19								
6/1/2016		52.5	22.3						
8/15/2016		33.3							
8/16/2016	17			5.32	4.88	2.21	4.24	2.54	
8/17/2016			22.1						2.44
9/19/2016				5.29	4.45		4.13		
9/20/2016						2.12		2.51	2.54
10/11/2016		22.2	21.8	5.26	4.36	2.24	4.07	2.34	
10/12/2016	16.2								2.67
11/14/2016				5.28	4.42		4.08		
11/15/2016						6.65		2.1	2.94
1/3/2017				5.18	5.18		4.06		
1/4/2017						2.15		2.44	2.92
1/23/2017								2.37	3.21
1/24/2017		18.4	21.8	5.41			4.4		
1/25/2017	18				5.66				
1/26/2017						2.31			
5/9/2017	23	30	23			2.3		2.8	2.5
5/10/2017				5.8	8		4.4		
6/27/2017		29		5.4	7.2	2.1	4	2.1	3
6/28/2017	24		22						
8/29/2017	15		22						3.6
8/30/2017		23		6	6.9	2.8	4.8	3	
6/4/2018		22							
6/5/2018	16			5.2	4.2	1.8 (J)	3.8	2.3	2.2
6/6/2018			20						
9/10/2018	13	22							
9/11/2018				5.5	4.2	<2	4.1	1.5 (J)	1.5 (J)
9/12/2018			20						
11/5/2018	13						3.9		
11/6/2018		17	21	5.1	4.5	<2		1.4 (J)	2.5
11/7/2018									
3/26/2019						1.07		2.42	2
3/27/2019	14.2	18	18.4	5.26	4.33		3.9		
9/9/2019									
9/10/2019	8.88	18.1	17.7						
9/11/2019				5.31	4.16	1.19	4.21	3.72	2.34
4/20/2020									
4/21/2020		19.5				1.09		3.89	2.04
4/22/2020	20.5		17.1	5.37	5.66		4		
8/11/2020			16.7	5.45					
8/12/2020					4.46		4.17		
8/17/2020		23.2							
8/18/2020	16.2					1.05		3.8	2.16
8/19/2020									
3/9/2021									
3/10/2021	17.1		25.3						
3/15/2021				5.47	4.18	1.25	5.57	4.38	2.83

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

3/16/2021	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
		16.6							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLS
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	1.77	1.78
9/19/2016		
9/20/2016	1.56	1.61
10/11/2016		
10/12/2016	1.54	1.51
11/14/2016		
11/15/2016	1.53	1.5
1/3/2017		
1/4/2017	1.58	1.53
1/23/2017		1.62
1/24/2017	1.71	
1/25/2017		
1/26/2017		
5/9/2017	2.1	2.2
5/10/2017		
6/27/2017	2	1.9 (J)
6/28/2017		
8/29/2017		2
8/30/2017	1.5 (J)	
6/4/2018		
6/5/2018	1.2 (J)	1.9 (J)
6/6/2018		
9/10/2018		
9/11/2018	<2	<2
9/12/2018		
11/5/2018		
11/6/2018	<2	1.9 (J)
11/7/2018		
3/26/2019	1.2	2.18
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.26	1.7
4/20/2020		
4/21/2020	1.32	1.9
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.38	1.63
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	1.27	2.46

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

3/16/2021

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-25	GC-AP-MW-6	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-1
2/16/2016									
2/17/2016	0.07 (J)	0.08 (J)	0.22 (J)	0.11 (J)	0.02 (J)	0.17 (J)	0.2 (J)	0.53	0.05 (J)
4/12/2016		0.083 (J)	0.214 (J)		0.021 (J)	0.203 (J)			
4/13/2016	0.081 (J)			0.119 (J)			0.173 (J)	0.437	0.061 (J)
5/31/2016	0.103 (J)		0.232 (J)	0.134 (J)		0.212 (J)			
6/1/2016		0.118 (J)			0.051 (J)		0.253 (J)	0.376	0.079 (J)
8/15/2016		0.109 (J)					0.224 (J)	0.362	0.081 (J)
8/16/2016				0.116 (J)					
8/17/2016	0.078 (J)		0.225 (J)		0.037 (J)	0.19 (J)			
9/19/2016									
9/20/2016									
10/11/2016		0.066 (J)	0.19 (J)		<0.1	0.15 (J)			0.049 (J)
10/12/2016	0.041 (J)			0.076 (J)			0.187 (J)	0.377	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	0.07 (J)	0.07 (J)	0.22	0.09 (J)	<0.1	0.18	0.23	0.41	0.04 (J)
3/15/2017									
5/9/2017		0.09 (J)	0.21	0.11	<0.1				0.05 (J)
5/10/2017	0.09 (J)					0.19	0.23	0.36	
6/27/2017							0.22	0.38	0.04 (J)
6/28/2017	0.08 (J)	0.1	0.21	0.17	0.04 (J)	0.18			
8/29/2017	0.09 (J)			0.14	<0.1	0.22			
8/30/2017		0.12	0.25				0.28	0.38	0.04 (J)
2/27/2018	0.08 (J)	0.09 (J)	0.23	0.14		0.22			0.07 (J)
2/28/2018					<0.1		0.23	0.58	
6/4/2018		0.1							0.07 (J)
6/5/2018	0.08 (J)		0.24	0.16		0.23	0.28	0.41	
6/6/2018					<0.1				
11/5/2018				0.15					
11/6/2018		0.1	0.22		<0.1		0.24	0.45	0.04 (J)
11/7/2018	0.08 (J)					0.22			
3/26/2019	0.106					0.253	0.316	0.573	
3/27/2019		0.13	0.208	0.104	<0.1				0.192
9/9/2019		0.121						0.477	
9/10/2019	0.086 (J)			0.191	<0.1	0.227	0.267		0.179
9/11/2019			0.2						
4/20/2020		0.112					0.245		
4/21/2020	0.0951 (J)		0.224			0.218		0.565	0.12
4/22/2020				0.167	<0.1				
8/11/2020					<0.1		0.294	0.515	
8/12/2020			0.221						
8/17/2020		0.148							0.115
8/18/2020				0.165					
8/19/2020	0.103					0.223			
3/9/2021	0.0949 (J)					0.17	0.286	0.628	
3/10/2021				0.0749 (J)	0.104				
3/15/2021									
3/16/2021		0.23	0.282						0.129

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	0.09 (J)	0.15 (J)	0.09 (J)						
4/12/2016	0.107 (J)	0.168 (J)							
4/13/2016			0.092 (J)						
5/31/2016	0.145 (J)								
6/1/2016		0.178 (J)	0.108 (J)						
8/15/2016		0.149 (J)	0.105 (J)						
8/16/2016	0.135 (J)			0.054 (J)	0.05 (J)	0.036 (J)	0.061 (J)	0.087 (J)	
8/17/2016									0.159 (J)
9/19/2016				0.023 (J)			0.018 (J)	0.045 (J)	
9/20/2016					0.015 (J)	<0.1			0.126 (J)
10/11/2016	0.096 (J)		0.062 (J)	0.011 (J)	<0.1	<0.1	<0.1	0.034 (J)	
10/12/2016		0.12 (J)							0.1 (J)
11/14/2016				<0.1			<0.1	<0.1	
11/15/2016					<0.1	<0.1			0.016 (J)
1/3/2017				<0.1			<0.1	<0.1	
1/4/2017					<0.1	<0.1			<0.1
3/13/2017					<0.1				0.31 (o)
3/14/2017	0.09 (J)	0.17	<0.1	<0.1		<0.1	<0.1	<0.1	
3/15/2017									
5/9/2017			0.07 (J)		<0.1	<0.1			0.25 (o)
5/10/2017	0.11	0.17		0.05 (J)			0.06 (J)	0.05 (J)	
6/27/2017	0.1	0.18		0.04 (J)	<0.1	<0.1	0.07 (J)	0.05 (J)	0.22 (o)
6/28/2017			0.09 (J)						
8/29/2017									0.22 (o)
8/30/2017	0.13	0.21	0.07 (J)	0.04 (J)	<0.1	<0.1	0.08 (J)	<0.1	
2/27/2018			0.08 (J)	0.04 (J)	<0.1	<0.1	0.07 (J)	<0.1	0.08 (J)
2/28/2018	0.09 (J)	0.17							
6/4/2018			0.09 (J)						
6/5/2018	0.13	0.17		0.04 (J)	<0.1	<0.1	0.1	<0.1	0.07 (J)
6/6/2018									
11/5/2018				<0.1					
11/6/2018	0.12	0.17	0.07 (J)		<0.1	<0.1	0.08 (J)	<0.1	0.07 (J)
11/7/2018									
3/26/2019	0.113	0.192			<0.1	<0.1			<0.1
3/27/2019			0.089 (J)	<0.1			<0.1	<0.1	
9/9/2019		0.157	0.163						
9/10/2019	0.122								
9/11/2019				0.0518 (J)	<0.1	<0.1	<0.1	<0.1	0.0716 (J)
4/20/2020	0.14								
4/21/2020		0.171	0.126		<0.1	<0.1			<0.1
4/22/2020				<0.1			<0.1	<0.1	
8/11/2020								<0.1	
8/12/2020	0.147	0.198		<0.1			<0.1		
8/17/2020			0.0753 (J)						
8/18/2020					<0.1	<0.1			<0.1
8/19/2020									
3/9/2021		0.205							
3/10/2021	0.115								
3/15/2021				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/16/2021			0.185						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	0.055 (J)	0.039 (J)
9/19/2016		
9/20/2016	0.021 (o)	0.01 (o)
10/11/2016		
10/12/2016	<0.1	<0.1
11/14/2016		
11/15/2016	<0.1	<0.1
1/3/2017		
1/4/2017	<0.1	<0.1
3/13/2017		
3/14/2017	<0.1	<0.1
3/15/2017		
5/9/2017	<0.1	<0.1
5/10/2017		
6/27/2017	<0.1	<0.1
6/28/2017		
8/29/2017		<0.1
8/30/2017	<0.1	
2/27/2018	<0.1	<0.1
2/28/2018		
6/4/2018		
6/5/2018	<0.1	<0.1
6/6/2018		
11/5/2018		
11/6/2018	<0.1	<0.1
11/7/2018		
3/26/2019	<0.1	<0.1
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	0.0649 (J)	<0.1
4/20/2020		
4/21/2020	<0.1	<0.1
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1	<0.1
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.1	<0.1
3/16/2021		

Prediction Limit

Constituent: pH (SU) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-10	GC-AP-MW-1	GC-AP-MW-15
2/16/2016	6.5	6.84	6.4	6.16	6.21	7.15	6.29		
2/17/2016								5.8	6.02
4/12/2016			6.41		6.37				6.17
4/13/2016	6.32	7.03		6.29		7.1	6.21	5.85	
5/31/2016		6.94	6.22		6.42		6.45		6.15
6/1/2016	6.43			6.33		6.76		5.92	
8/15/2016								5.99	
8/16/2016		6.84	6.41			6.99	6.58		6.21
8/17/2016	6.46			6.27	6.42				
9/19/2016									
9/20/2016									
10/11/2016								6.02	6.14
10/12/2016	6.53	6.75	6.42	6.3	6.38	6.89	6.6		
10/31/2016									
11/1/2016			6.55		6.33				6.15
11/2/2016									
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								5.92	6.11
1/25/2017	6.45	6.87	6.76	6.27	6.37	6.84	6.47		
1/26/2017									
3/13/2017									
3/14/2017					6.3			5.96	6.09
3/15/2017	6.39	6.9	6.82	6.27		6.78	6.54		
5/9/2017		6.85	6.7		6.43	6.83		5.93	
5/10/2017	6.39			6.25			6.53		6.11
5/31/2017									
6/27/2017								5.86	6.09
6/28/2017	6.4	6.85	6.58	6.25	6.4	6.98	6.49		
8/29/2017	6.47	6.86	6.4	6.32	6.32	6.8	6.49		
8/30/2017								5.88	6.1
2/27/2018	6.54			6.36	6.28		6.59	5.92	
2/28/2018		6.94	6.72			6.87			6.11
6/4/2018								5.89	
6/5/2018	6.47			6.3			6.52		6.05
6/6/2018		6.99	6.57		6.25	6.94			
9/10/2018						6.74		5.89	
9/11/2018	6.53	6.87	6.64	6.36			6.53		6.18
9/12/2018					6.42				
11/5/2018		6.81	6.69			6.66			
11/6/2018								5.95	6.09
11/7/2018	6.49			6.31	6.42		6.51		
3/26/2019	6.47	6.95	6.54	6.32		6.84			6.1
3/27/2019					6.41		6.53	5.8	
9/9/2019									
9/10/2019	6.43	6.69		6.31	6.11	6.58	6.33	5.88	5.82
9/11/2019			6.22						

Prediction Limit

Constituent: pH (SU) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-23 (bg)	GC-AP-MW-25	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	6.63	6.8	5.36						
4/12/2016	6.59	6.54	5.31						
4/13/2016									
5/31/2016	6.57								
6/1/2016		6.49	5.35						
8/15/2016									
8/16/2016		6.57		6	7.13	6.21	6.34	5.39	
8/17/2016	6.72		5.38						5.85
9/19/2016				6	6.94		6.11		
9/20/2016						6.05		5.37	5.82
10/11/2016	6.69	6.54	5.31	6.02	6.82	6.2	5.99	5.39	
10/12/2016									5.76
10/31/2016						6.61		5.36	
11/1/2016				5.97	6.71		5.84		
11/2/2016		6.54	5.39						
11/14/2016				5.98	6.57		5.83		
11/15/2016						6.64		5.33	5.79
11/28/2016				6	6.57		5.79		
11/29/2016						6.39		5.33	5.73
1/3/2017				6.03	6.56		5.39		
1/4/2017						6.06		5.49	5.69
1/23/2017								5.48	5.45
1/24/2017	6.61	6.42	5.29	5.9	6.41				
1/25/2017							5.09		
1/26/2017						6.02			
3/13/2017						5.68			4.8
3/14/2017	6.55	6.59	5.19	6.07	6.37		4.99	5.17	
3/15/2017									
5/9/2017	6.65	6.42	5.29			5.05		5.11	4.82
5/10/2017				6	6.41		4.63		
5/31/2017				6.02					
6/27/2017		6.44		6.05	6.14	4.9	4.76	5.29	5.27
6/28/2017	6.66		5.27						
8/29/2017		6.43	5.27						5.28
8/30/2017	6.66			6.13	6.08	4.73	4.85	5.09	
2/27/2018	6.73	6.49		6.1	5.99	4.87	4.69	5.25	5.11
2/28/2018			5.28						
6/4/2018									
6/5/2018	6.63	6.43		6.05	5.93	4.89	4.62	5.12	5.24
6/6/2018			5.21						
9/10/2018									
9/11/2018	6.65	6.35		6.07	5.86	4.88	4.79	5.19	5.28
9/12/2018			5.23						
11/5/2018				6.01					
11/6/2018	6.65		5.28		5.89	4.86	4.62	5.12	5.54
11/7/2018		6.37							
3/26/2019		6.46				4.97		5.16	5.4
3/27/2019	6.59		5.27	6.15	5.95		4.68		
9/9/2019									
9/10/2019		5.85	5.15						
9/11/2019	6.36			5.87	5.85	3.96	4.57	4.11	5.53

Prediction Limit

Constituent: pH (SU) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-28 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	5.47	6.15
9/19/2016		
9/20/2016	5.22	4.99
10/11/2016		
10/12/2016	5.1	4.88
10/31/2016		4.87
11/1/2016		
11/2/2016		
11/14/2016		
11/15/2016	5.07	4.81
11/28/2016		
11/29/2016	5.1	4.84
1/3/2017		
1/4/2017	5.3	4.88
1/23/2017	5.12	
1/24/2017		5.4
1/25/2017		
1/26/2017		
3/13/2017		
3/14/2017	4.74	5.13
3/15/2017		
5/9/2017	4.83	4.96
5/10/2017		
5/31/2017		
6/27/2017	4.87	5.34
6/28/2017		
8/29/2017	4.71	
8/30/2017		4.69
2/27/2018	4.96	4.91
2/28/2018		
6/4/2018		
6/5/2018	5	4.87
6/6/2018		
9/10/2018		
9/11/2018	4.94	4.65
9/12/2018		
11/5/2018		
11/6/2018	4.9	4.67
11/7/2018		
3/26/2019	4.96	4.92
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	4.85	4.33

Prediction Limit

Constituent: pH (SU) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
4/20/2020		
4/21/2020	4.29	4.07
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	4.75	4.59
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	4.73	4.45
3/16/2021		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
2/16/2016	49.4	9.03	45.2	125	119	113	108		
2/17/2016								311	132
4/12/2016						86.7	114		130
4/13/2016	51.7	10.7	43.9	119	122			330	
5/31/2016		10.2			94.3	83.1	114	324	111
6/1/2016	51.2		32	99.2					
8/15/2016									
8/16/2016		9.1		71.9	67.1	59.3			
8/17/2016	42.9		31.9				85.4	306	95.8
9/19/2016									
9/20/2016									
10/11/2016									101
10/12/2016	39.5	7.24	39.6	93.9	94.1	99.3	53.5	296	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									129
1/25/2017	31.3	9.71	44	103	101	113	75.4	243	
1/26/2017									
5/9/2017				100	91	74	84		
5/10/2017	30	11	32					210	120
6/27/2017									
6/28/2017	35	10	34	69	71	71	120	210	100
8/29/2017	40	14	34	77	80	72	180	220	95
8/30/2017									
6/4/2018									
6/5/2018	25	39	22					390	98
6/6/2018				81	62	48	450		
9/10/2018				64					
9/11/2018	23	29	33		63	62		360	100
9/12/2018							200		
11/5/2018				68	74	81			
11/6/2018									
11/7/2018	30	45	76				180	390	97
3/26/2019	21.6		138	92	92.3	92.4		430	120
3/27/2019		66.2					335		
9/9/2019									
9/10/2019	37.4	50.5	115	63.1	89.3		193	409	140
9/11/2019						128			
4/20/2020						76.5			
4/21/2020	43.3		133	99	121		168	318	153
4/22/2020		63.2							
8/11/2020							242		
8/12/2020									
8/17/2020									
8/18/2020		58.6	115	63.4	89	203			
8/19/2020	44.5							296	163
3/9/2021	71.7		107				165	347	187
3/10/2021				51.7	155				
3/15/2021		68.5				204			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

3/16/2021

GC-AP-MW-8 GC-AP-MW-10 GC-AP-MW-9 GC-AP-MW-21 GC-AP-MW-12 GC-AP-MW-13 GC-AP-MW-14 GC-AP-MW-7 GC-AP-MW-6

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
3/16/2021	167					7.62	548		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	40.2	785	28.7						
4/12/2016			32.5						
4/13/2016	33.1	715							
5/31/2016	28.1								
6/1/2016		832	31.9						
8/15/2016		862							
8/16/2016	38.5			1.78	9.33	0.894 (J)	2.06	0.702 (J)	
8/17/2016			30.5						16.2
9/19/2016				2.06	11.2		1.44		
9/20/2016						<1		<1	14.9
10/11/2016		888	32.3	2.33	12.6	<1	1.38	<1	
10/12/2016	38.3								12.4
11/14/2016				2.31	12.4		1.15		
11/15/2016						1.19		<1	8.6
1/3/2017				2.81	14.3		1.57		
1/4/2017						<1		<1	12.2
1/23/2017								0.493 (J)	16
1/24/2017		906	33.5	3.34			2.06		
1/25/2017	32				15.2				
1/26/2017						0.6 (J)			
5/9/2017	44	810	33			<1		<1	55
5/10/2017				2.9 (J)	12		2.1 (J)		
6/27/2017		830		3.4 (J)	13	<1	2.7 (J)	<1	45
6/28/2017	88		35						
8/29/2017	110		37						37
8/30/2017		910		3.7 (J)	15	<1	2.6 (J)	<1	
6/4/2018		850							
6/5/2018	79			3.7 (J)	17	1.4 (J)	3.1 (J)	<1	9.3
6/6/2018			47						
9/10/2018	80	920							
9/11/2018				2.2 (J)	16	<1	1.6 (J)	<1	7.8
9/12/2018			41						
11/5/2018	81						2.4 (J)		
11/6/2018		880	48	3.1 (J)	15	<1		<1	6
11/7/2018									
3/26/2019						0.594 (J)		<1	6.86
3/27/2019	83.2	1090	62.4	3.55	15.1		3.24		
9/9/2019									
9/10/2019	87.2	992	66						
9/11/2019				3.83	14.5	<1	2.66	<1	5.29
4/20/2020									
4/21/2020		874				0.694 (J)		<1	6.28
4/22/2020	58.7		76.1	3.78	9.64		2.51		
8/11/2020			79.5	4.33					
8/12/2020					13.6		2.54		
8/17/2020		919							
8/18/2020	81.1					0.608 (J)		<1	9.57
8/19/2020									
3/9/2021									
3/10/2021	73.2		70.3						
3/15/2021				3.74	2.76	<1	8.5	<1	7.66

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

3/16/2021	GC-AP-MW-11	GC-AP-MW-1 933	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
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Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	6.46	0.928 (J)
9/19/2016		
9/20/2016	8.3	0.478 (J)
10/11/2016		
10/12/2016	8.36	0.727 (J)
11/14/2016		
11/15/2016	8.75	0.448 (J)
1/3/2017		
1/4/2017	7.85	0.627 (J)
1/23/2017		1.34
1/24/2017	6.62	
1/25/2017		
1/26/2017		
5/9/2017	5.6	<1
5/10/2017		
6/27/2017	5.3	<1
6/28/2017		
8/29/2017		<1
8/30/2017	8.2	
6/4/2018		
6/5/2018	8.3	2.1 (J)
6/6/2018		
9/10/2018		
9/11/2018	8.9	<1
9/12/2018		
11/5/2018		
11/6/2018	8.6	<1
11/7/2018		
3/26/2019	10.1	1.66
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	10.6	1.29
4/20/2020		
4/21/2020	9.4	2.21
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	10.3	1.57
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	10.4	2.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

3/16/2021

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
2/16/2016	656	312	226	264	264	242	340		
2/17/2016								892	640
4/12/2016						176	298		610
4/13/2016	634	324	202	226	238			1010	
5/31/2016		333			206	189	309	1100	626
6/1/2016	672		224	231					
8/15/2016									
8/16/2016		327		181	180	192			
8/17/2016	624		290				269	1070	628
9/19/2016									
9/20/2016									
10/11/2016									636
10/12/2016	586	312	315	225	223			1040	
10/31/2016									
11/1/2016						244	252		
11/2/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									696
1/25/2017	596	286	332	277	271	274	259	972	
1/26/2017									
5/9/2017				255	236	191	285		
5/10/2017	576	326	361					740	687
6/27/2017									
6/28/2017	612	304	396	175	198	176	348	914	622
8/29/2017	640	348	402	218	187	163	528	924	616
8/30/2017									
6/4/2018									
6/5/2018	474	346	448					1060	582
6/6/2018				207	199	138	932		
9/10/2018				197					
9/11/2018	496	335	462		184	185		1020	616
9/12/2018							180		
11/5/2018				200	210	208			
11/6/2018									
11/7/2018	514	342	506				528	1050	576
3/26/2019	546		586	218	230	198		1100	682
3/27/2019		347					834		
9/9/2019									
9/10/2019	601 (D)	351	586	198	218 (D)		658	1100	744
9/11/2019						316			
4/20/2020						201			
4/21/2020	638		578	265	291		628	1010	742
4/22/2020		338							
8/11/2020							688		
8/12/2020									
8/17/2020									
8/18/2020		376	542	179	250	444			
8/19/2020	658							1050	788

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
3/9/2021			524	684	412				
3/10/2021		397						105	179
3/15/2021									
3/16/2021	510					340	890		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-26 (bg)
3/9/2021									
3/10/2021	274		246						
3/15/2021				<25	46	30	49.3	48	42.7
3/16/2021		1620							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	65.3	36.7
9/19/2016		
9/20/2016	44	25.3
10/11/2016		
10/12/2016		<25
10/31/2016	38.7	
11/1/2016		
11/2/2016		
11/28/2016		
11/29/2016	34	<25
1/3/2017		
1/4/2017	42	27.3
1/23/2017		<25
1/24/2017	45.3	
1/25/2017		
1/26/2017		
5/9/2017	49.3	28.7
5/10/2017		
6/27/2017	46	27.3
6/28/2017		
8/29/2017		30.7
8/30/2017	38.7	
6/4/2018		
6/5/2018	34.7	26
6/6/2018		
9/10/2018		
9/11/2018	34.7	<25
9/12/2018		
11/5/2018		
11/6/2018	36	26
11/7/2018		
3/26/2019	30	<25
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	40	27.3
4/20/2020		
4/21/2020	36	30.7
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	35.3	27.3
8/19/2020		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/20/2021 5:12 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)
3/9/2021		
3/10/2021		
3/15/2021	30	30.7
3/16/2021		

FIGURE E.

Trend Test Summary - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.02785	65	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.06098	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2181	80	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08388	91	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.005522	70	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03789	67	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.07849	61	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2312	103	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	4.935	66	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	20.59	78	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	3.549	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.75	118	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	10.72	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	9.626	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.608	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	7.733	122	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.211	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.2903	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	8.157	114	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	22.41	99	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.6975	71	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-1.222	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.035	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	4	104	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.03019	82	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01768	78	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.0134	76	63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.08524	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1052	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1547	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.6207	-150	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.147	-135	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	31.6	76	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-10.44	-82	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.738	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	21.4	103	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6924	73	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	33.08	110	63	Yes	17	5.882	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	11.32	79	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	19.69	96	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	31.25	124	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	46.44	81	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	37.9	66	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-8.691	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	32.06	100	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	14.03	88	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-8.883	-86	-63	Yes	17	52.94	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	39.42	100	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	92.02	113	63	Yes	17	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.02785	65	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	0.007636	7	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.06098	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	-0.008738	-8	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.03977	14	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2181	80	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08388	91	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.103	57	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.07988	54	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05904	-56	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.003695	37	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	-0.01241	-20	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	28	58	No	16	81.25	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.005522	70	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	5	58	No	16	93.75	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	17	58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	5	58	No	16	93.75	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	9	58	No	16	93.75	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03789	67	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.07179	-53	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-7	0.05773	58	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.07849	61	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2312	103	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-17.01	-62	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	2.02	40	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	2.071	40	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	4.935	66	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	20.59	78	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	3.549	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.75	118	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	10.72	90	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-2.029	-28	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	9.626	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21	-0.2471	-2	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.608	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	7.733	122	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.5741	-50	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	-0.006421	-8	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.211	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.2903	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	-0.9601	-8	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1016	-40	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	8.157	114	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	6.072	43	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	2.051	17	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.546	32	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	22.41	99	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-1	-1.326	-37	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	0.1893	8	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.6385	-27	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.4447	-21	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	-0.5955	-21	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.6745	-47	-63	No	17	0	n/a	n/a	0.01	NP

Trend Test Summary - All Results

Plant: Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-15	0	8	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.3483	-23	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-0.8317	-26	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.6975	71	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.04401	-7	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	0.7112	16	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.05649	-57	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.3061	28	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-1.222	-75	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.1062	-31	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.08661	40	63	No	17	5.882	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.1068	-52	-63	No	17	11.76	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.3204	-61	-63	No	17	11.76	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	0	-10	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.3555	33	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.035	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	1.407	37	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	4.471	40	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-3.569	-13	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	4	104	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.0005547	2	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.01056	50	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.03019	82	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01768	78	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03483	60	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.006815	56	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-2	0.003214	12	63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.002095	32	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0.001385	46	63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	0	-10	-43	No	13	38.46	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	15	58	No	16	93.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	7	58	No	16	87.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	29	63	No	17	88.24	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.0134	76	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	16	63	No	17	94.12	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0.001122	12	63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.008992	48	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-12	0.009481	25	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.08524	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05363	-78	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.1425	-75	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1052	-104	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1547	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.6207	-150	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.147	-135	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	31.6	76	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-12	-0.7303	-12	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	5.199	21	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	27.75	58	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-10.44	-82	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	35.26	50	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.738	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	21.4	103	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-2.331	-60	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.2984	47	63	No	17	29.41	n/a	n/a	0.01	NP

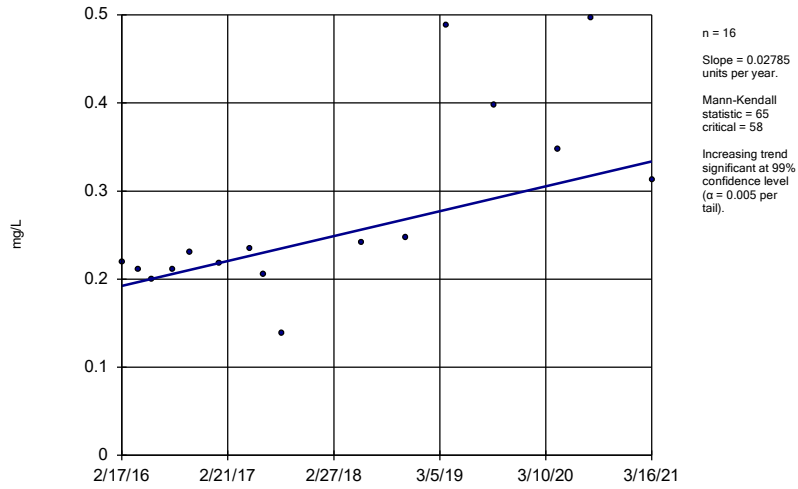
Trend Test Summary - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6924	73	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	-1	-63	No	17	58.82	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	-9	-63	No	17	88.24	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	33.08	110	63	Yes	17	5.882	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	6.295	28	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	14.93	23	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	16.03	45	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	44.64	51	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	11.32	79	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	19.69	96	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-12	7.218	22	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	11.93	37	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	88.14	55	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	1.438	7	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	31.25	124	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	46.44	81	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-16.06	-42	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	37.9	66	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-7.028	-19	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-8.691	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	32.06	100	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	14.03	88	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-4.935	-46	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.3695	22	63	No	17	29.41	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.865	-58	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-8.883	-86	-63	Yes	17	52.94	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-2.89	-25	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	0.9953	34	63	No	17	29.41	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	39.42	100	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	19.58	33	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	16.71	35	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	-3.812	-4	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	92.02	113	63	Yes	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

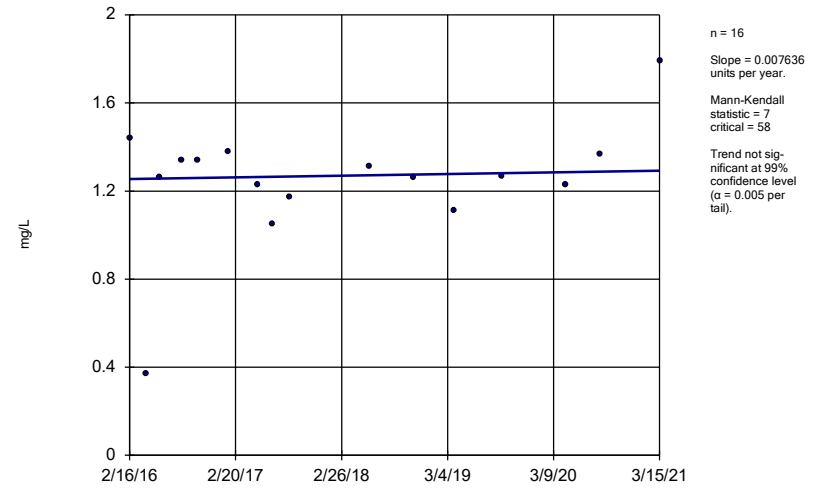
GC-AP-MW-1



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

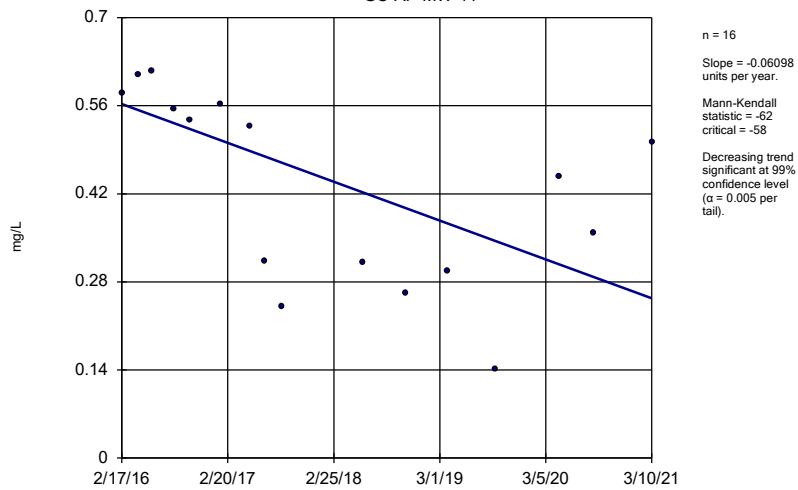
GC-AP-MW-10



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

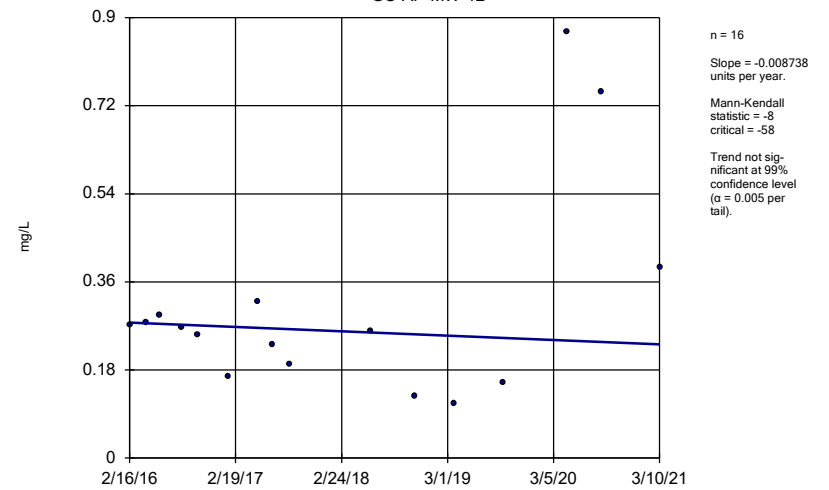
GC-AP-MW-11



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

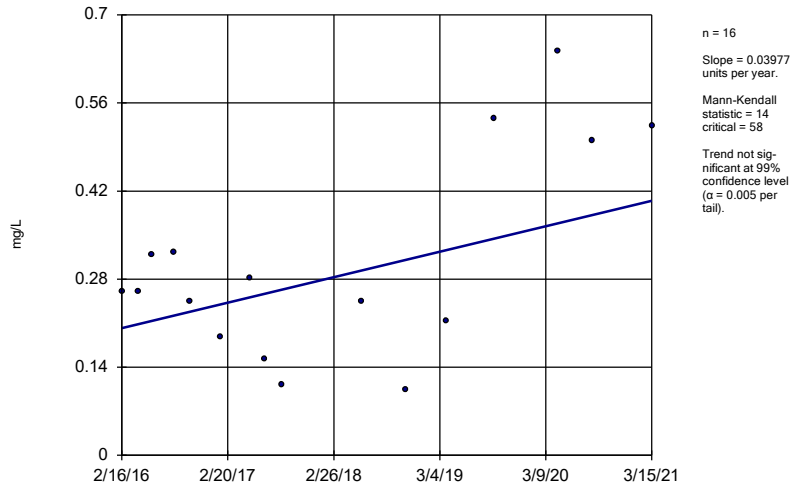
GC-AP-MW-12



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

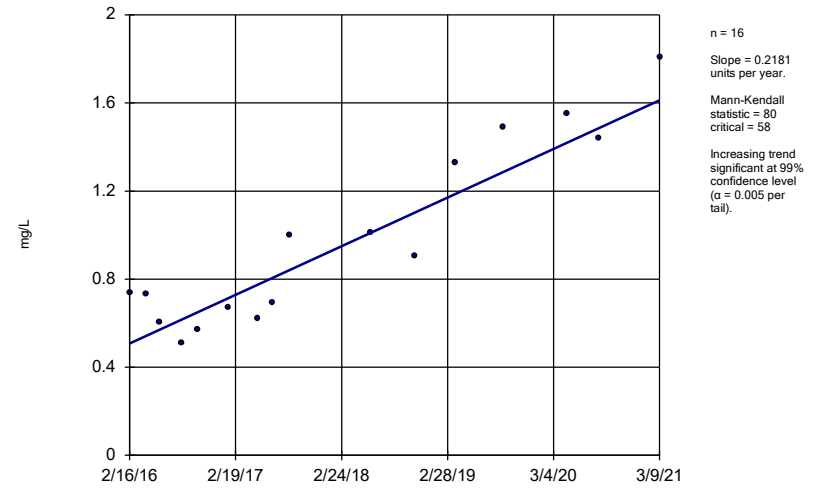
GC-AP-MW-13



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

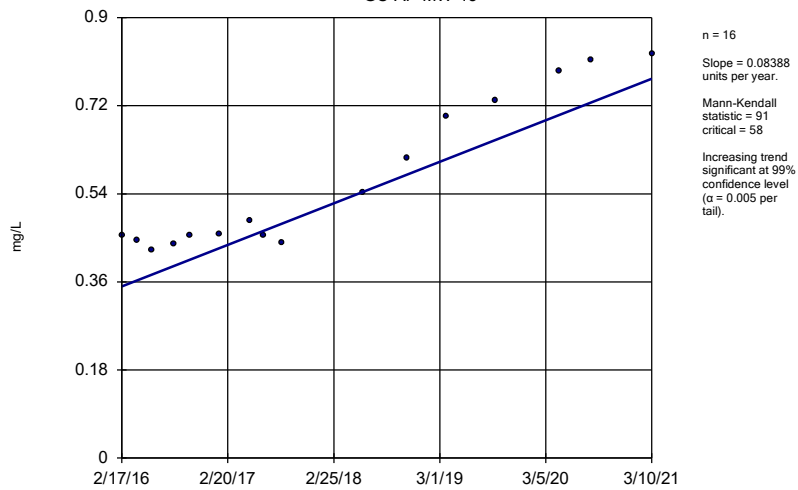
GC-AP-MW-14



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

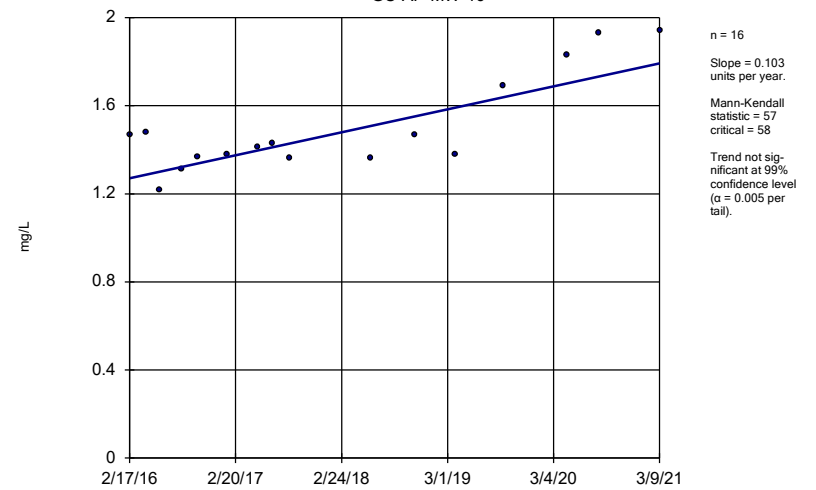
GC-AP-MW-15



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

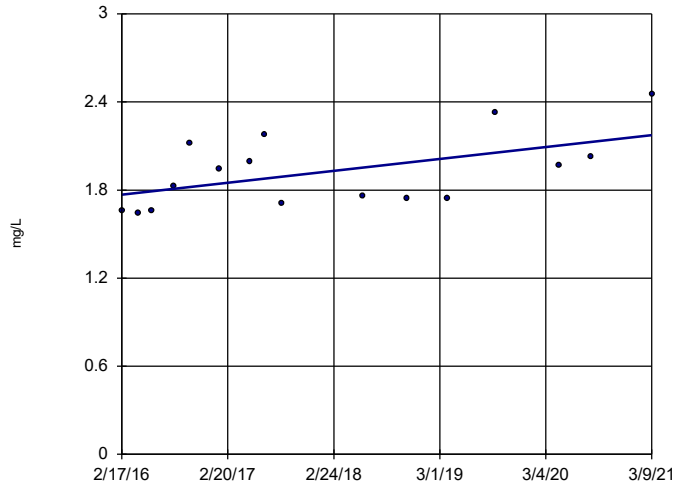
GC-AP-MW-16



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-17

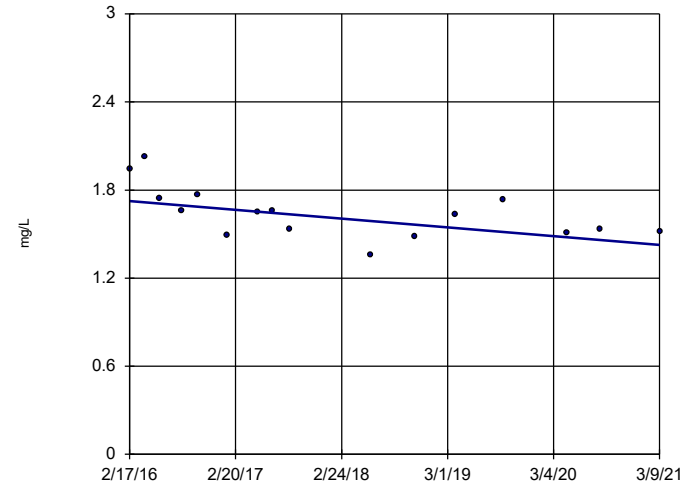


n = 16
 Slope = 0.07988
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-18

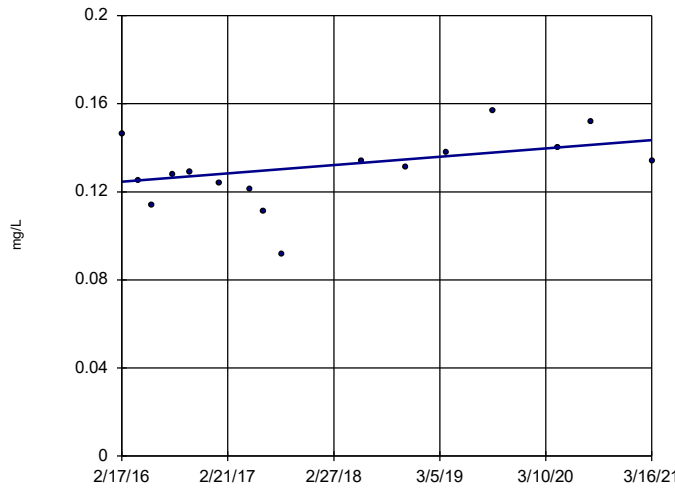


n = 16
 Slope = -0.05904
 units per year.
 Mann-Kendall
 statistic = -56
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-2

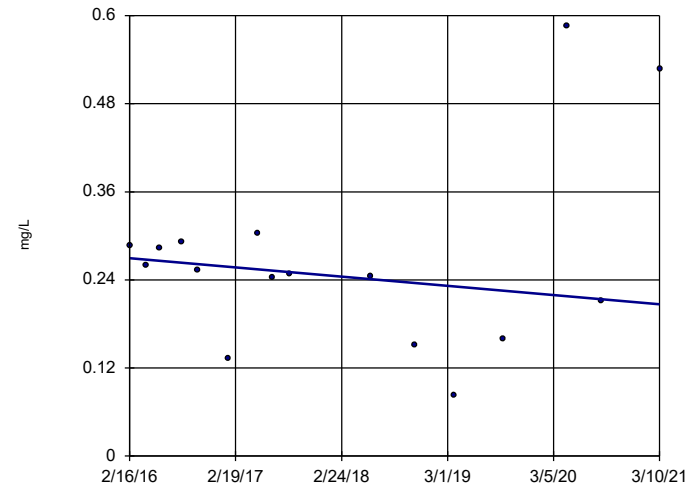


n = 16
 Slope = 0.003695
 units per year.
 Mann-Kendall
 statistic = 37
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-21

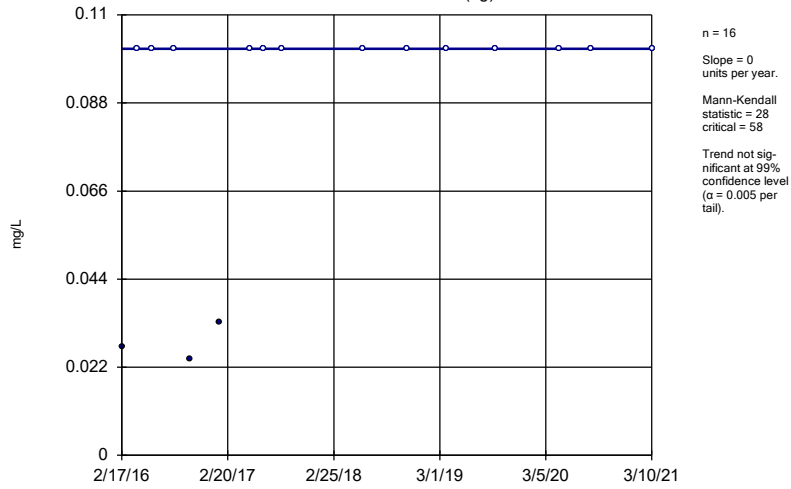


n = 16
 Slope = -0.01241
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

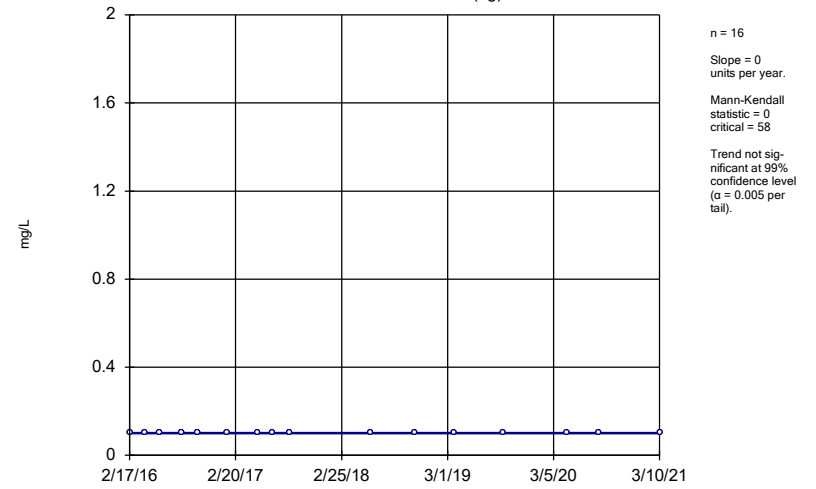
GC-AP-MW-23 (bg)



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

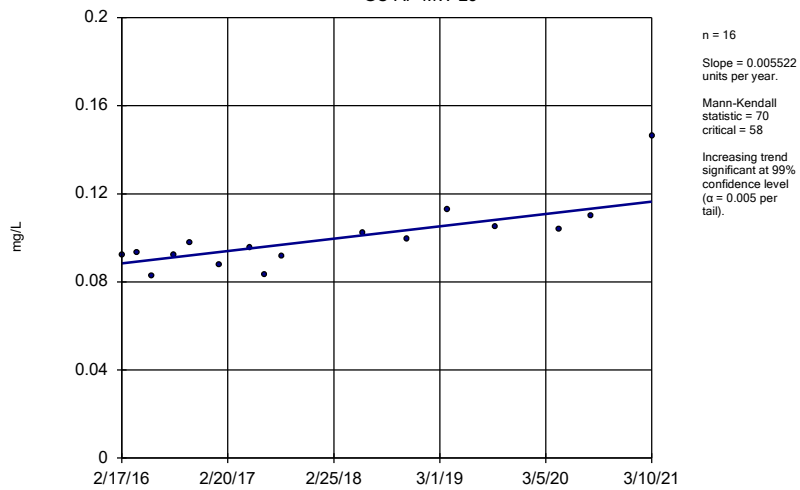
GC-AP-MW-24 (bg)



Constituent: Boron Analysis Run 5/20/2021 5:19 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

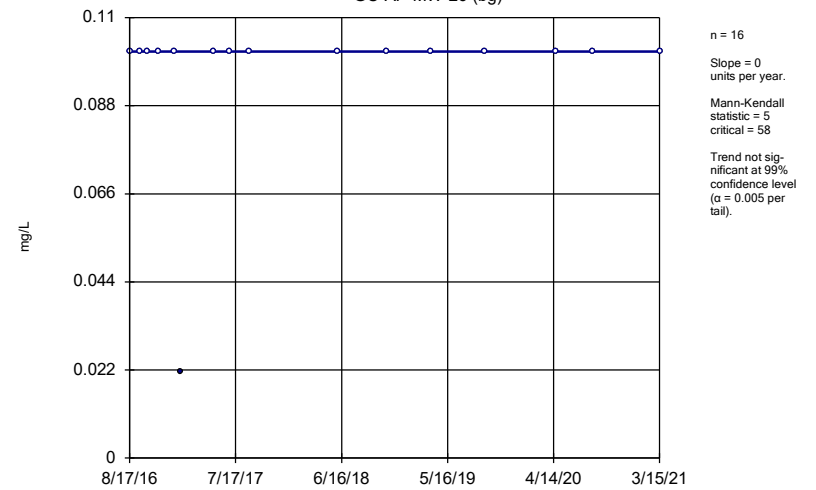
GC-AP-MW-25



Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

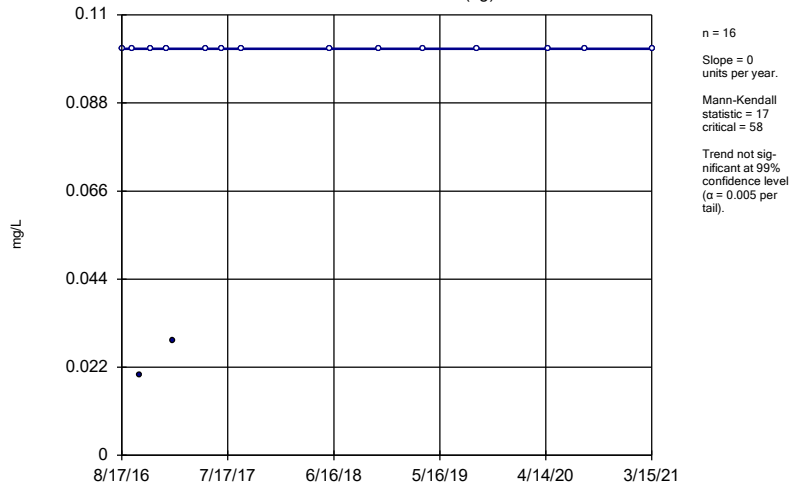
Sen's Slope Estimator

GC-AP-MW-26 (bg)



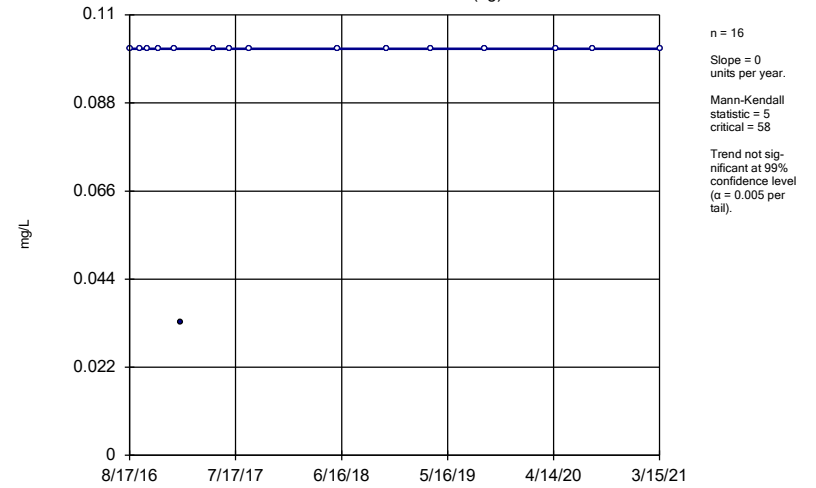
Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-27 (bg)



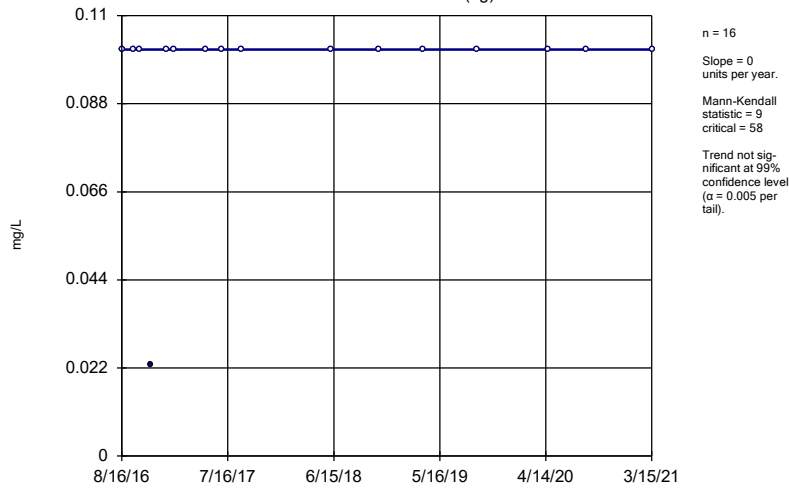
Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-28 (bg)



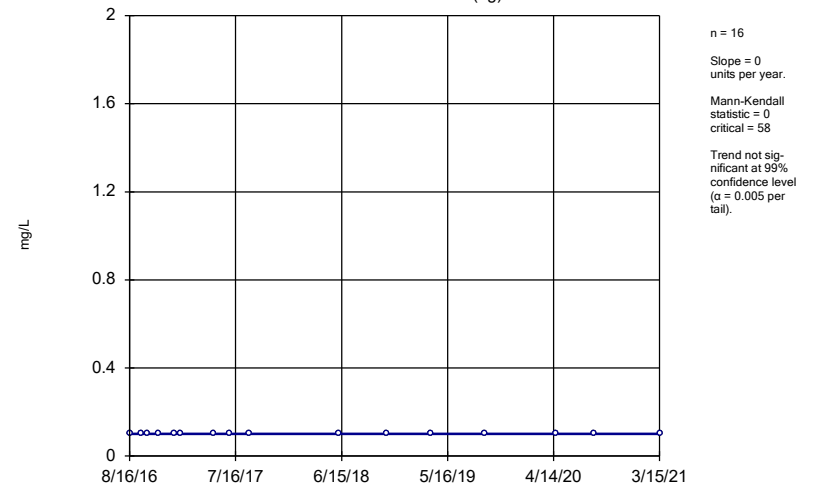
Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
GC-AP-MW-29 (bg)



Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

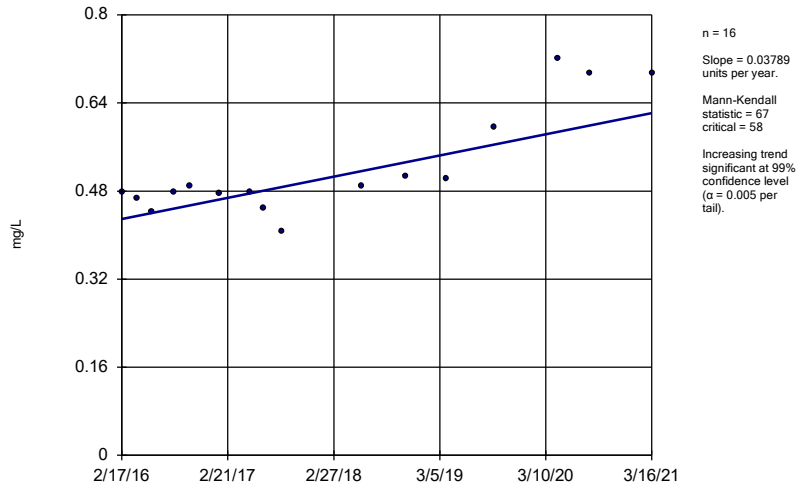
Sen's Slope Estimator
GC-AP-MW-30 (bg)



Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

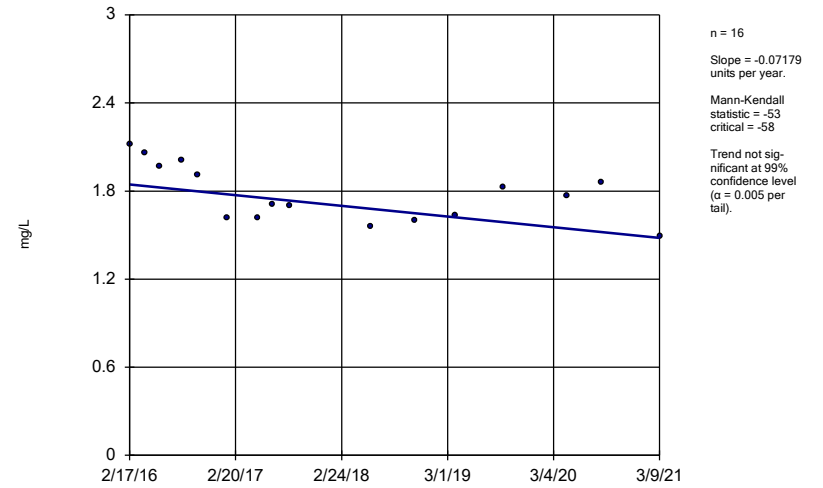
GC-AP-MW-5



Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

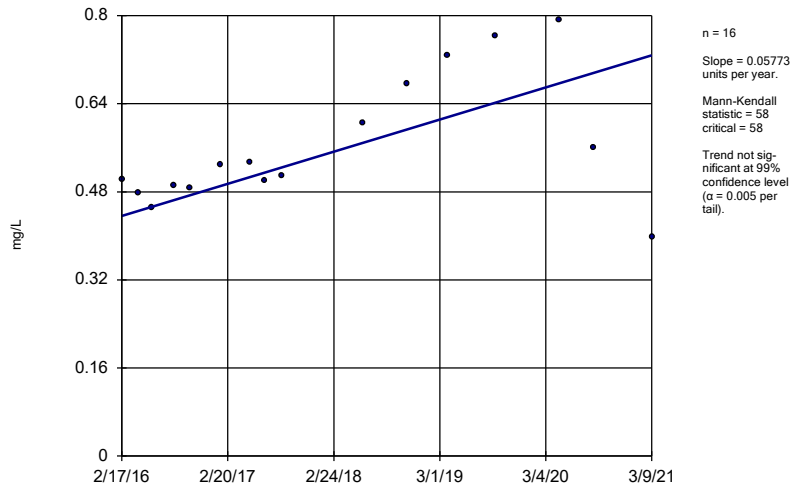
GC-AP-MW-6



Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

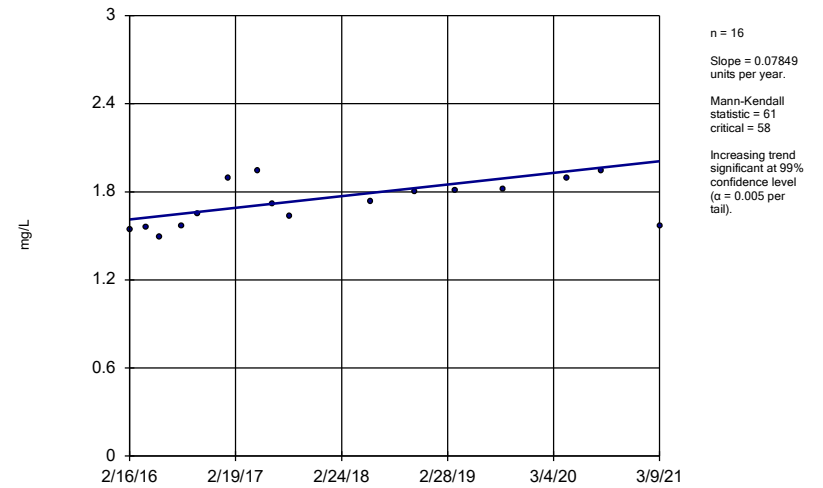
GC-AP-MW-7



Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

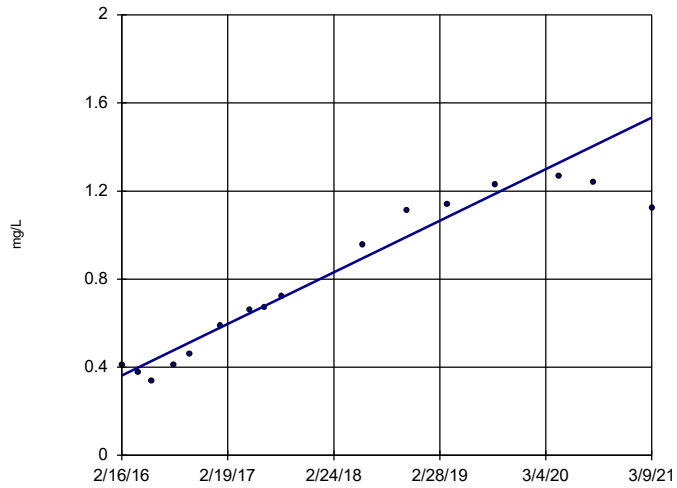
GC-AP-MW-8



Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-9

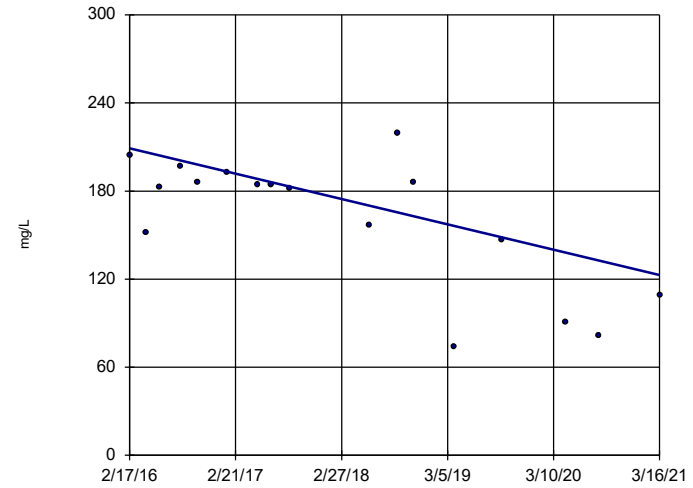


n = 16
 Slope = 0.2312
 units per year.
 Mann-Kendall
 statistic = 103
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-1

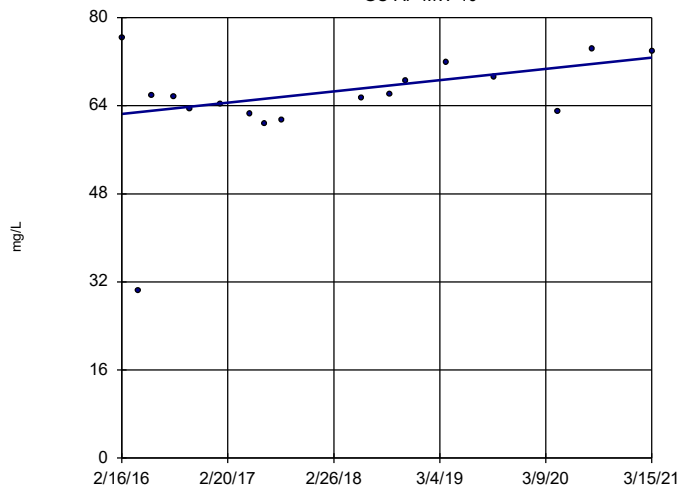


n = 17
 Slope = -17.01
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-10

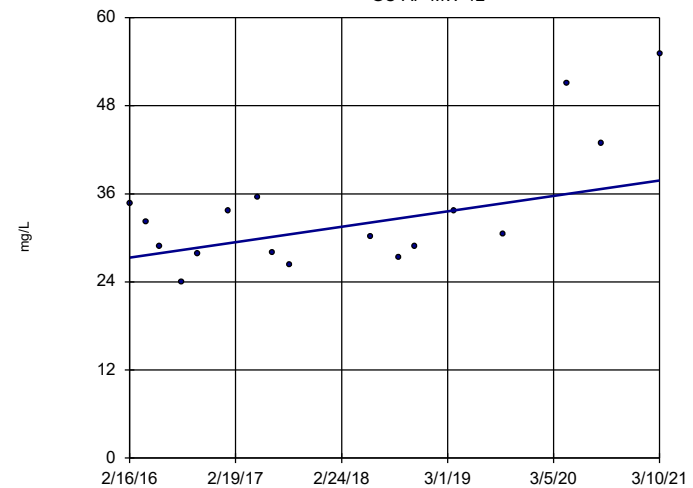


n = 17
 Slope = 2.02
 units per year.
 Mann-Kendall
 statistic = 40
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-12

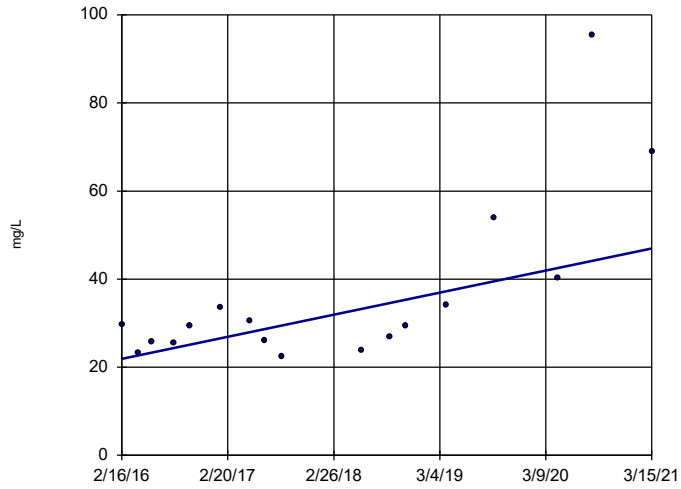


n = 17
 Slope = 2.071
 units per year.
 Mann-Kendall
 statistic = 40
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-13

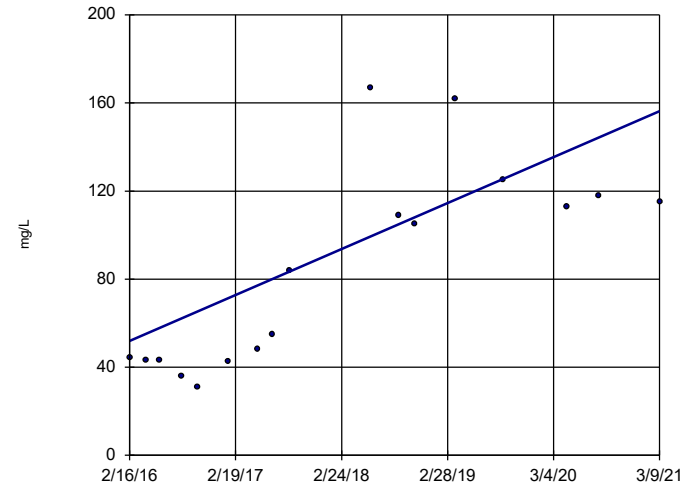


n = 17
 Slope = 4.935
 units per year.
 Mann-Kendall
 statistic = 66
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-14

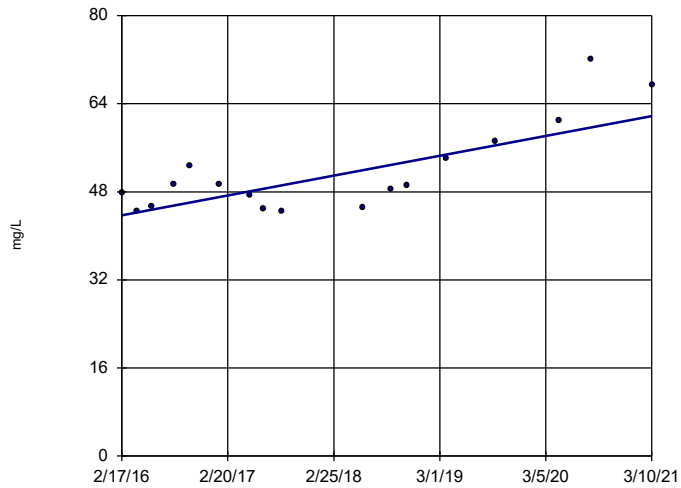


n = 17
 Slope = 20.59
 units per year.
 Mann-Kendall
 statistic = 78
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-15

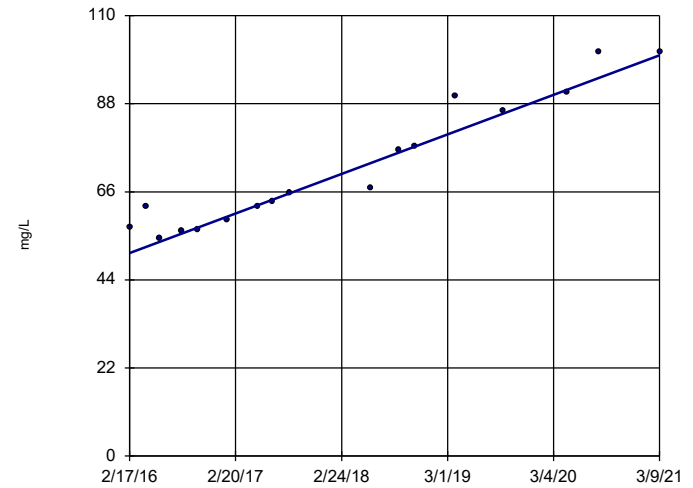


n = 17
 Slope = 3.549
 units per year.
 Mann-Kendall
 statistic = 68
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-16

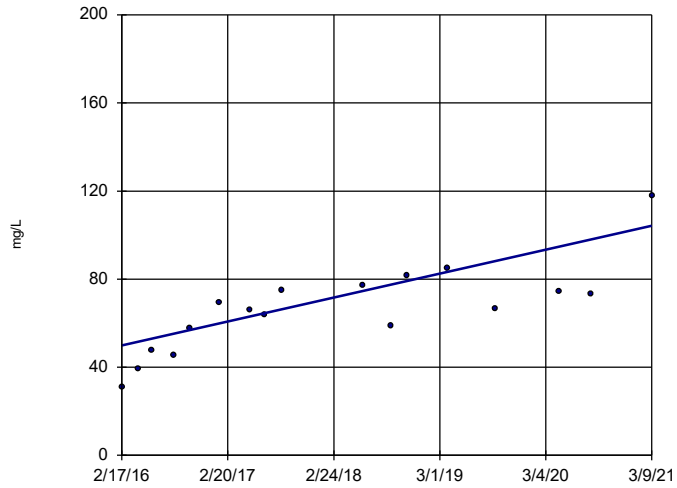


n = 17
 Slope = 9.75
 units per year.
 Mann-Kendall
 statistic = 118
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

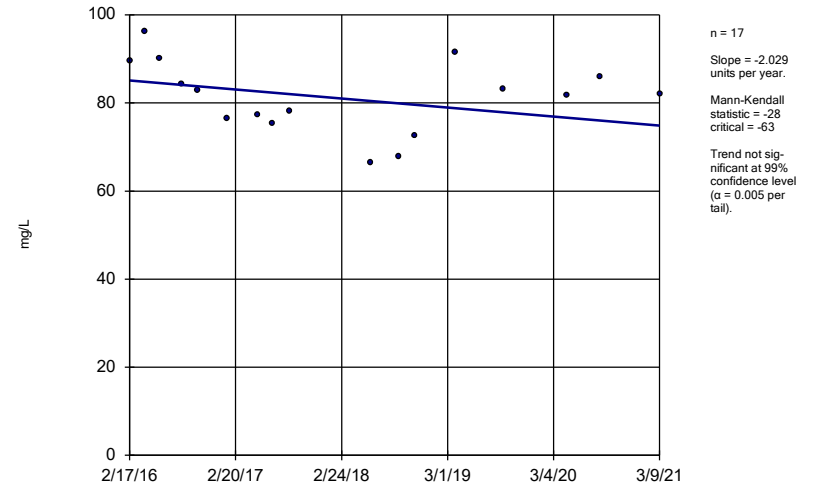
GC-AP-MW-17



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

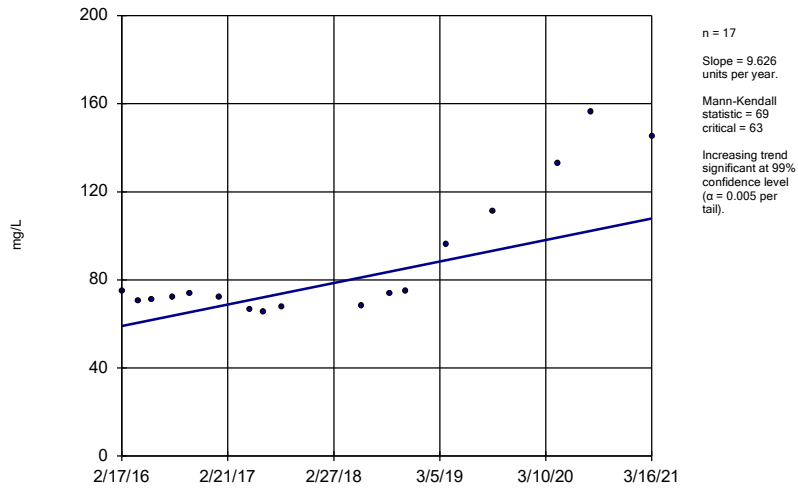
GC-AP-MW-18



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

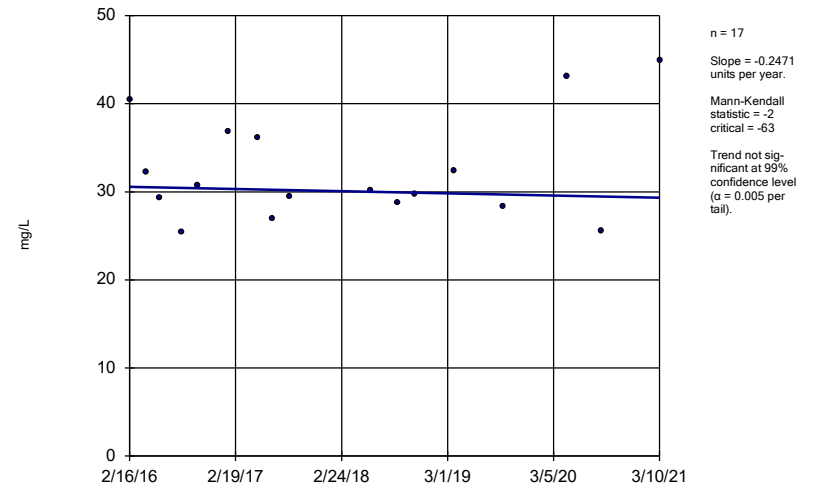
GC-AP-MW-2



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

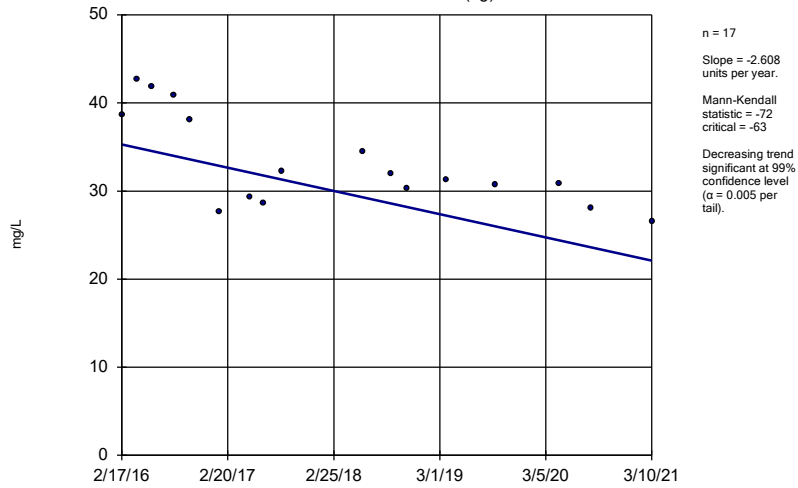
GC-AP-MW-21



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

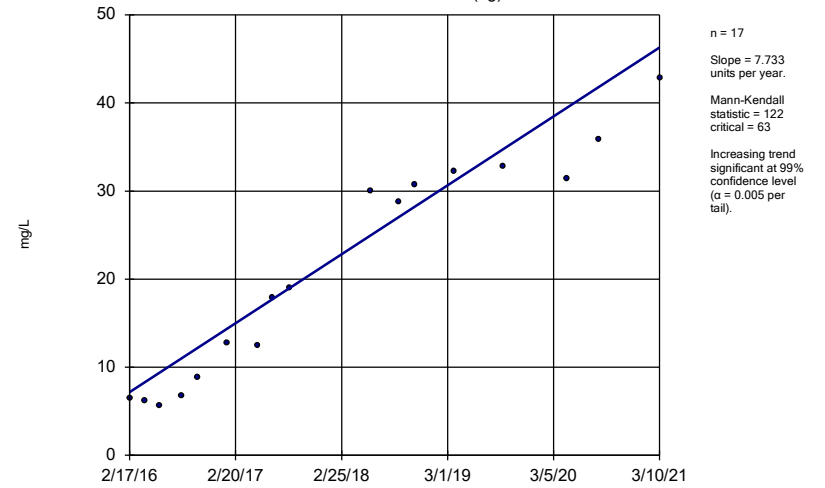
GC-AP-MW-23 (bg)



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

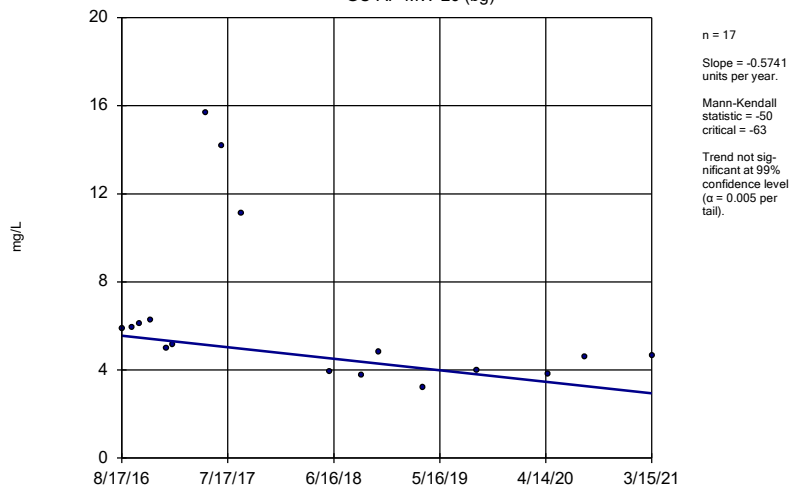
GC-AP-MW-24 (bg)



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

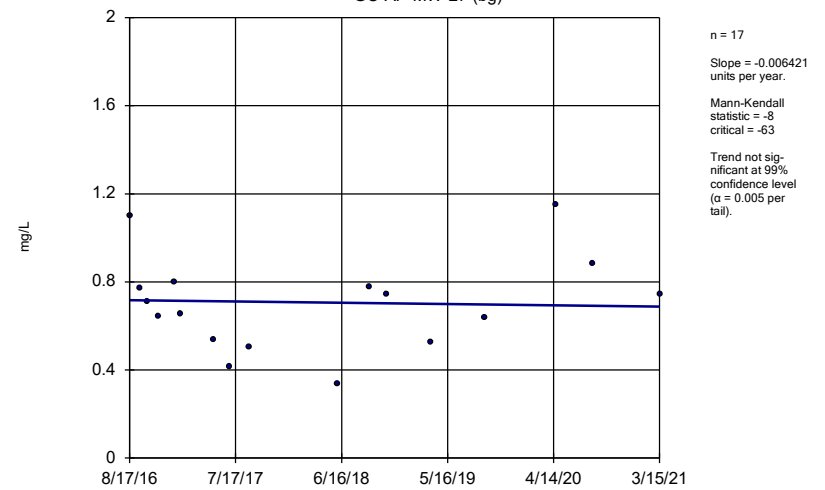
GC-AP-MW-26 (bg)



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

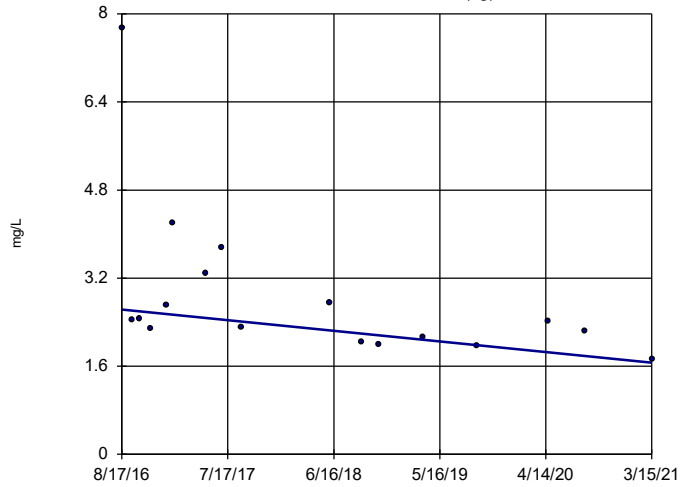
GC-AP-MW-27 (bg)



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-28 (bg)

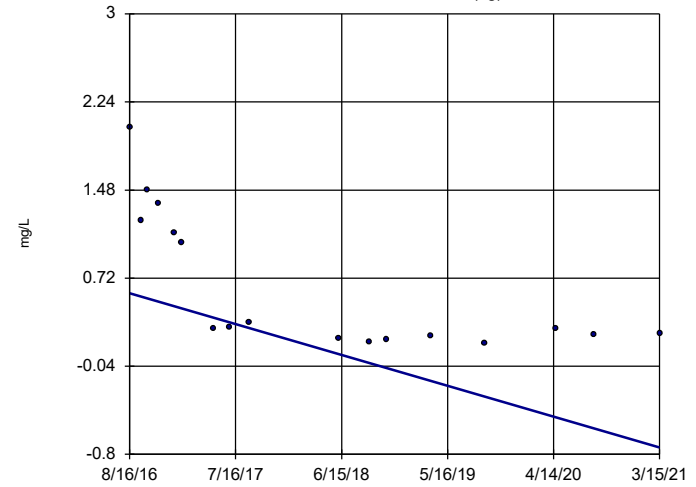


n = 17
 Slope = -0.211
 units per year.
 Mann-Kendall
 statistic = -66
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-29 (bg)

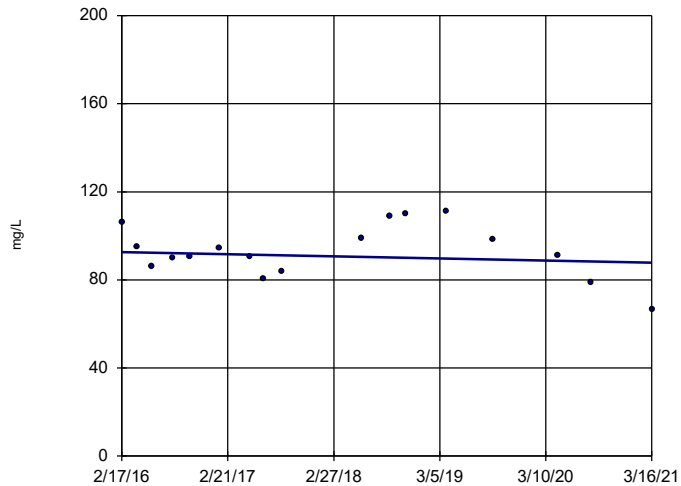


n = 17
 Slope = -0.2903
 units per year.
 Mann-Kendall
 statistic = -86
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-3

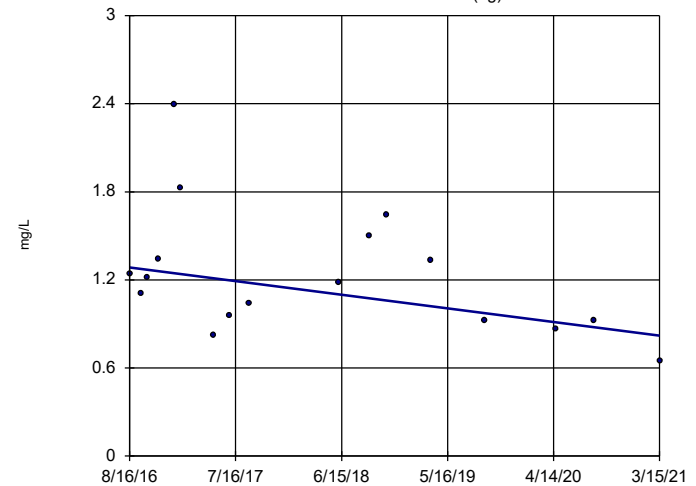


n = 17
 Slope = -0.9601
 units per year.
 Mann-Kendall
 statistic = -8
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-30 (bg)

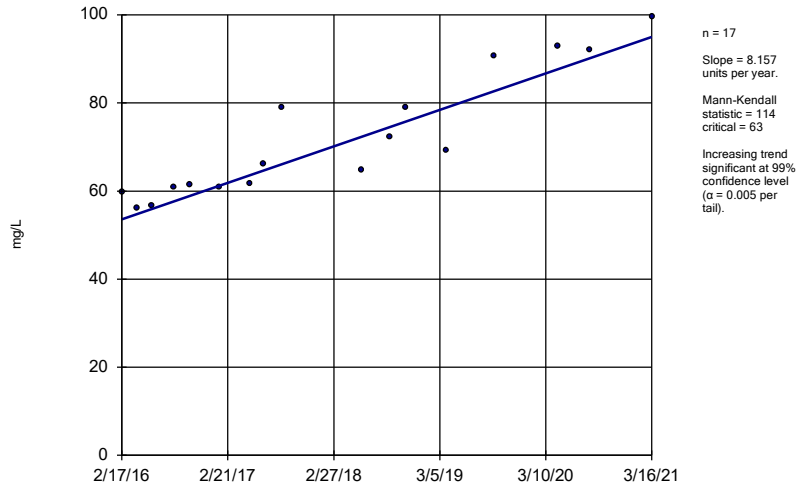


n = 17
 Slope = -0.1016
 units per year.
 Mann-Kendall
 statistic = -40
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

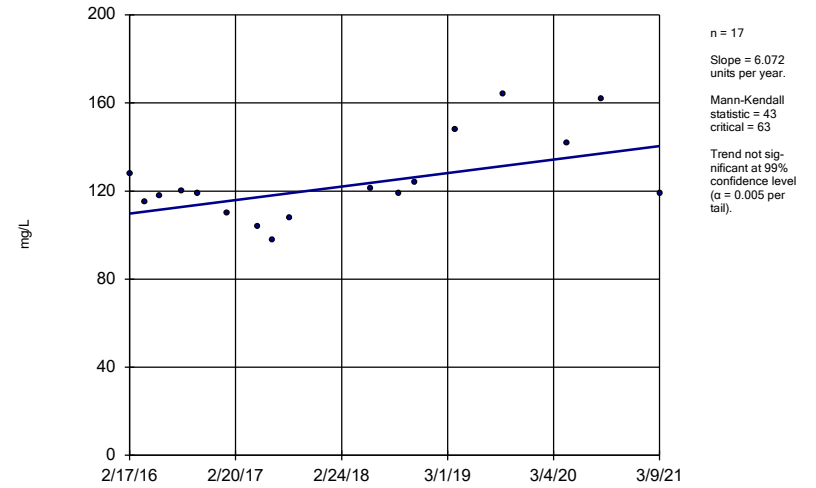
GC-AP-MW-5



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

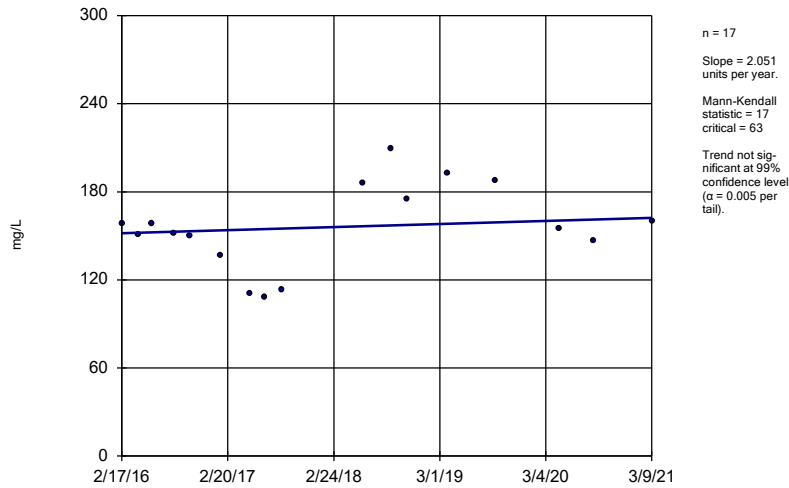
GC-AP-MW-6



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

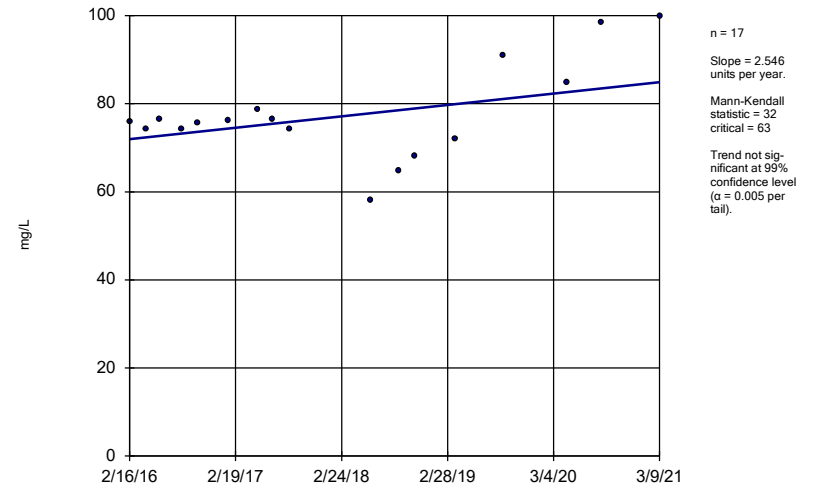
GC-AP-MW-7



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

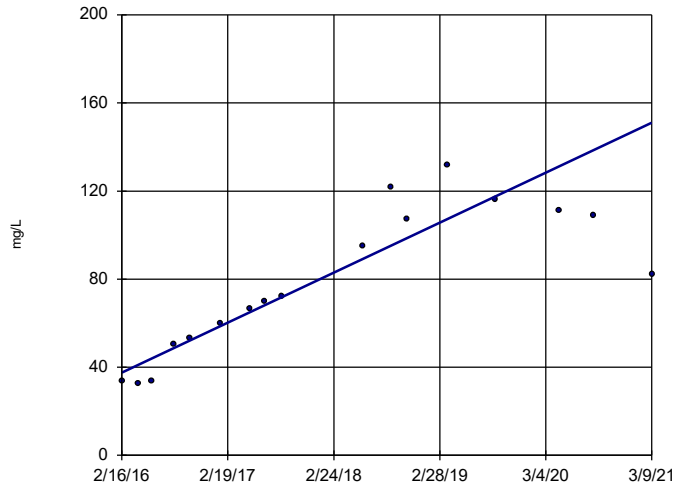
GC-AP-MW-8



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

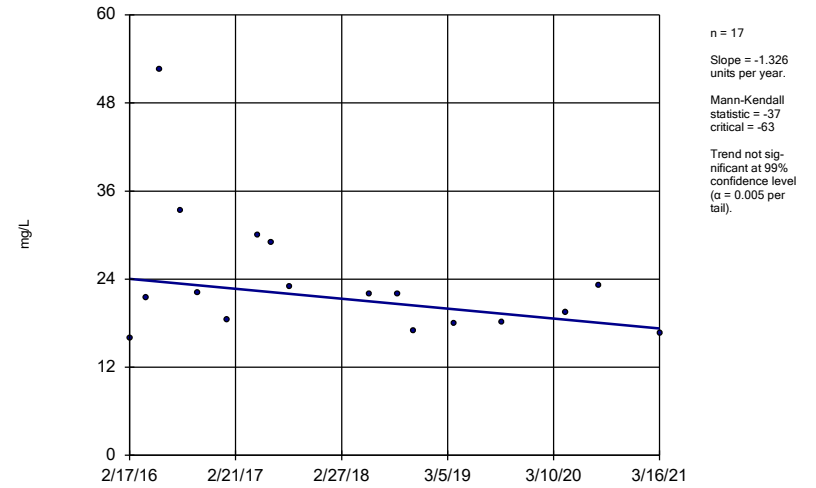
GC-AP-MW-9



Constituent: Calcium Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

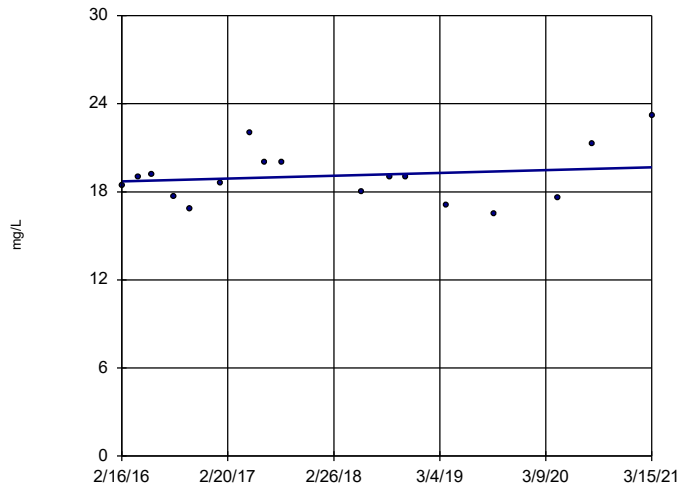
GC-AP-MW-1



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

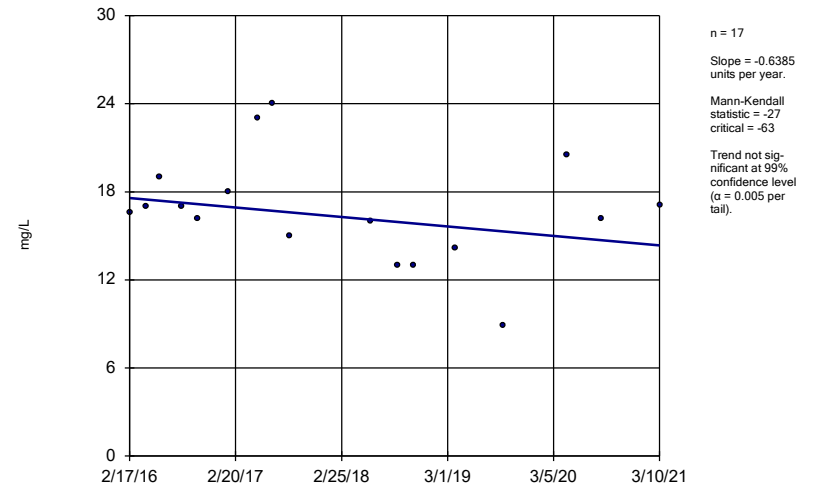
GC-AP-MW-10



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

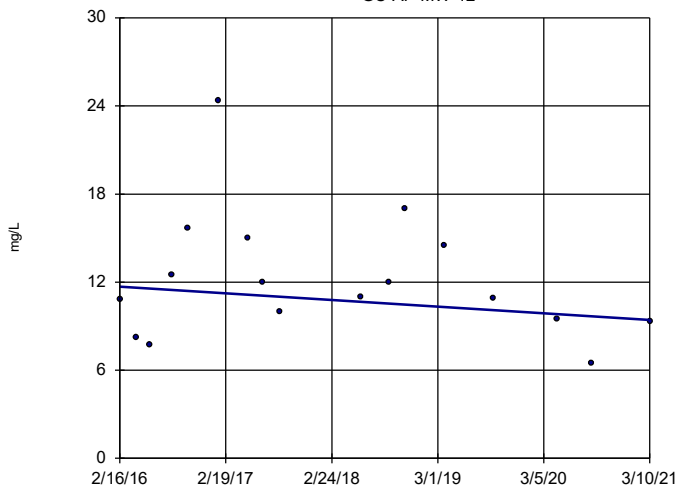
GC-AP-MW-11



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-12

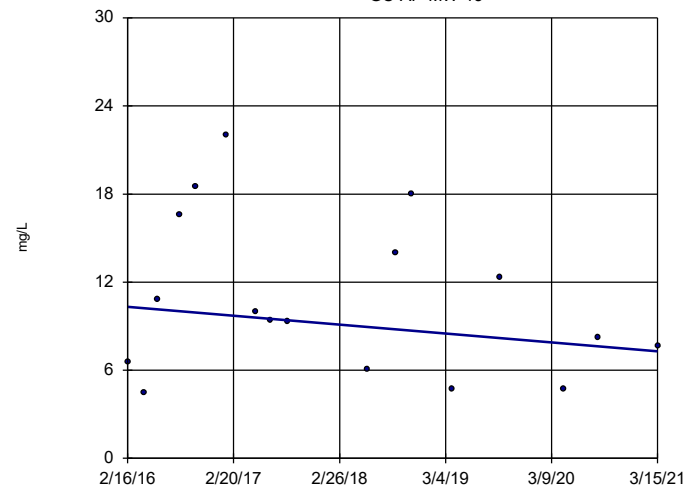


n = 17
 Slope = -0.4447
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-13

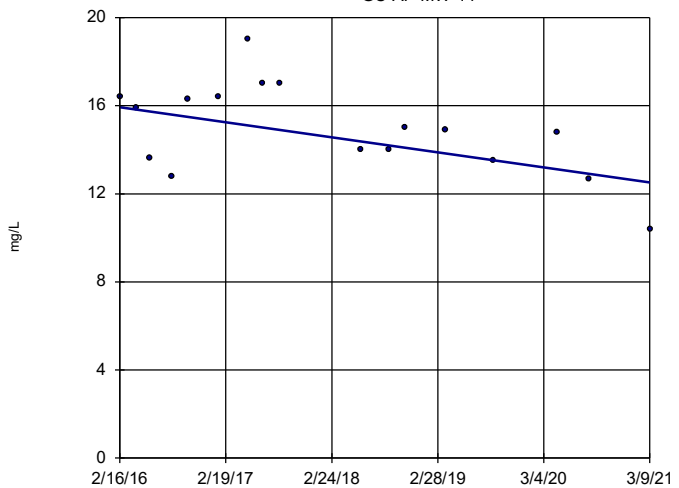


n = 17
 Slope = -0.5955
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-14

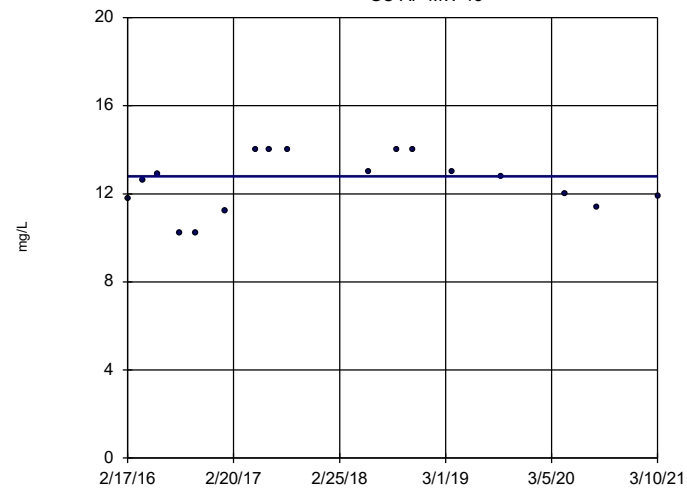


n = 17
 Slope = -0.6745
 units per year.
 Mann-Kendall
 statistic = -47
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-15

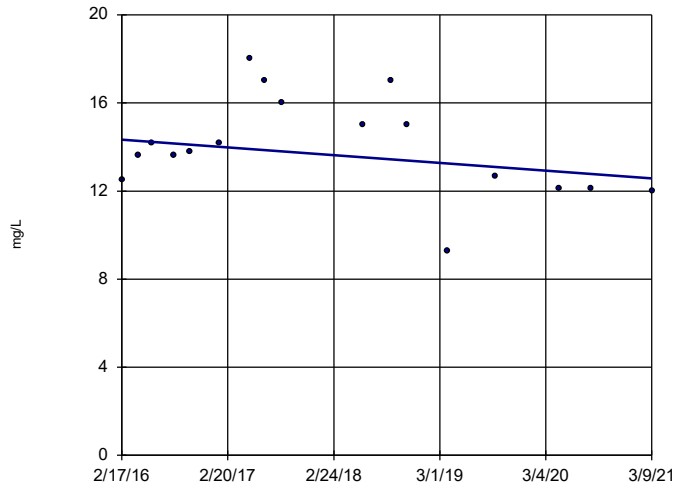


n = 17
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

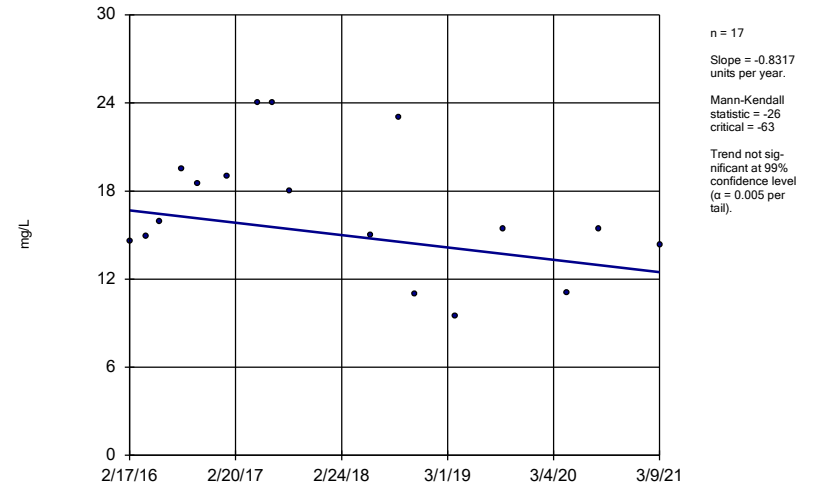
GC-AP-MW-16



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

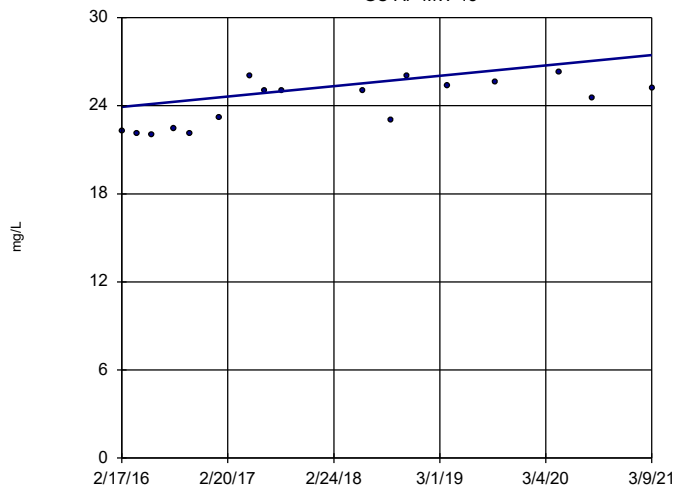
GC-AP-MW-17



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

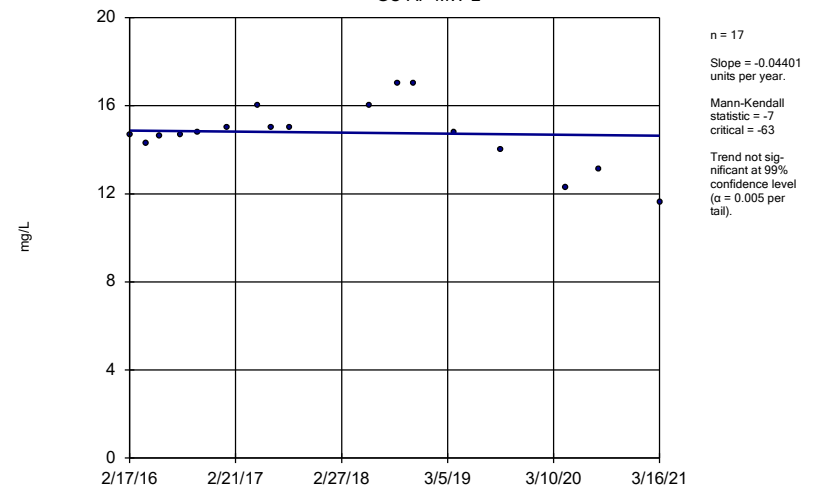
GC-AP-MW-18



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

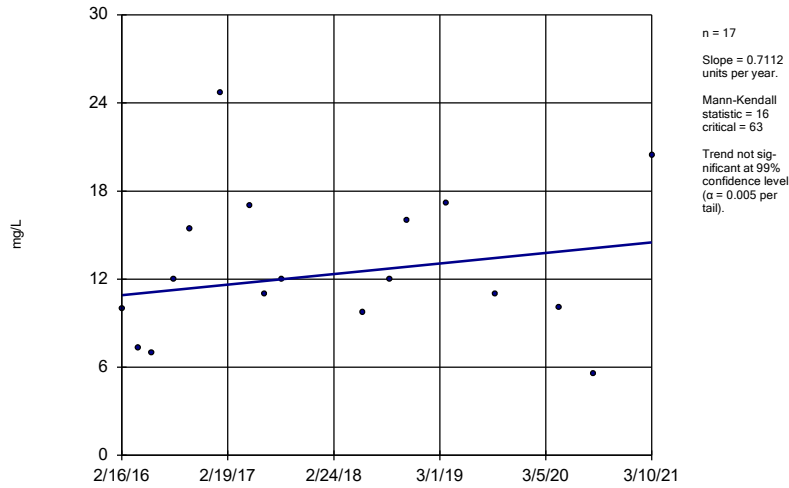
GC-AP-MW-2



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

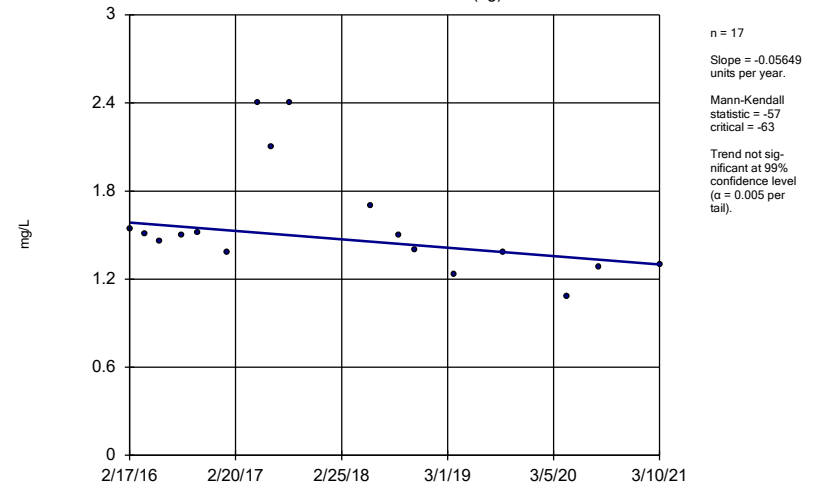
GC-AP-MW-21



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

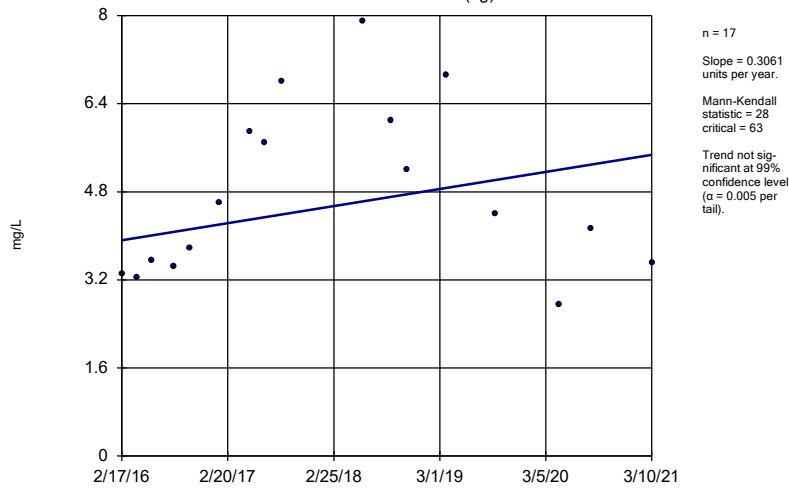
GC-AP-MW-23 (bg)



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

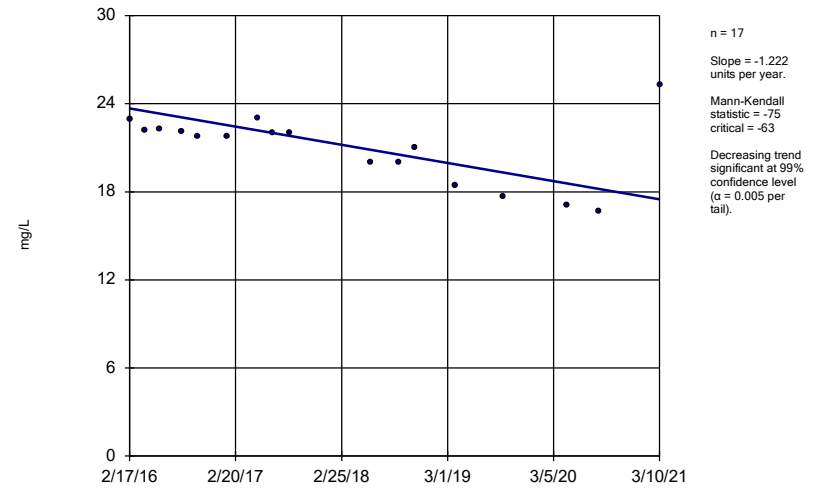
GC-AP-MW-24 (bg)



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

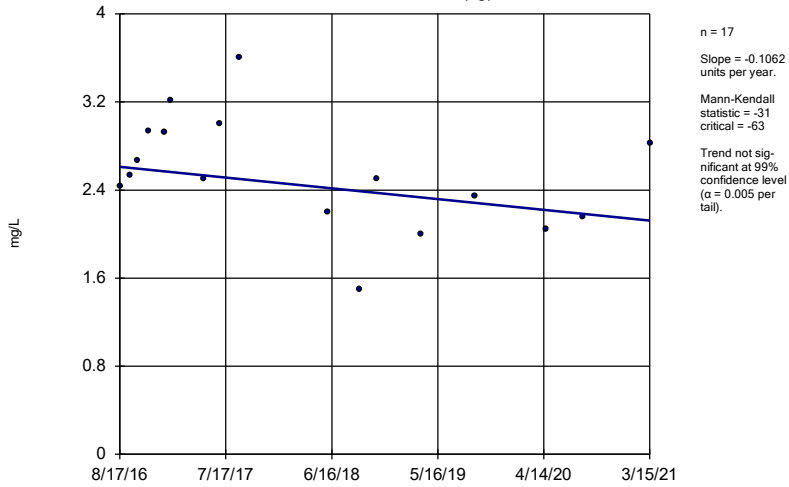
GC-AP-MW-25



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-26 (bg)

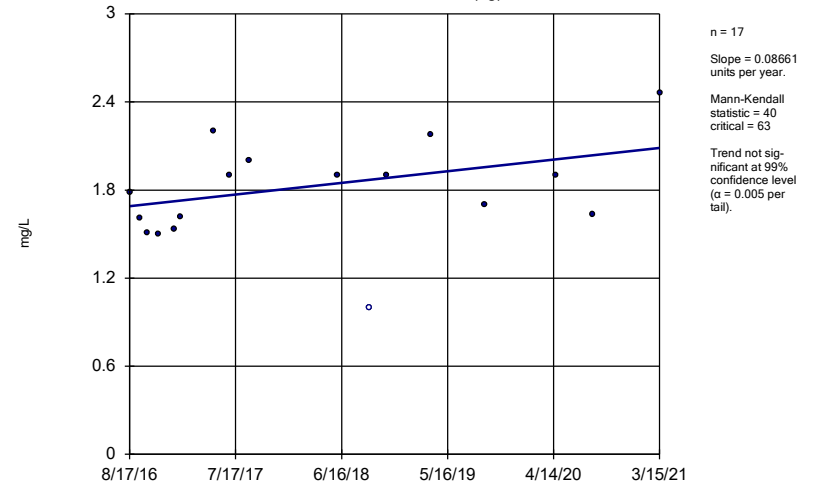


Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)

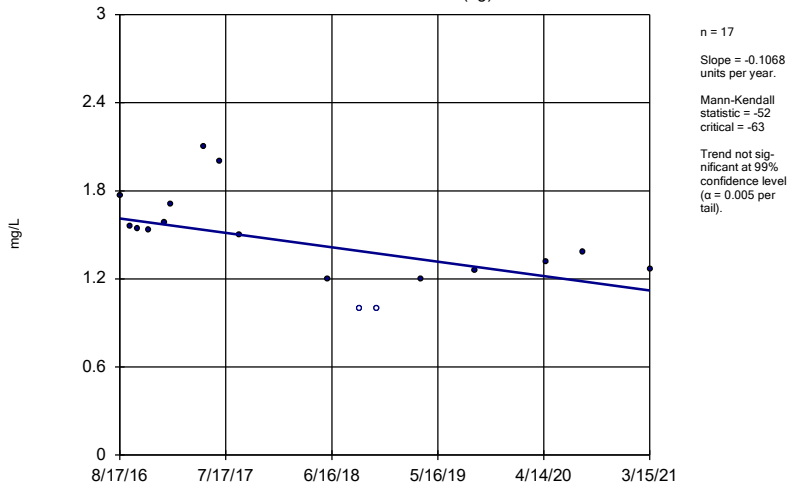


Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)

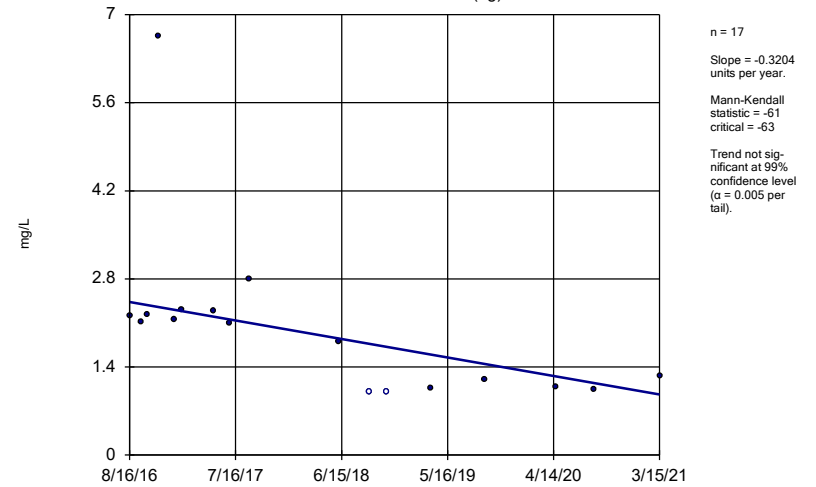


Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

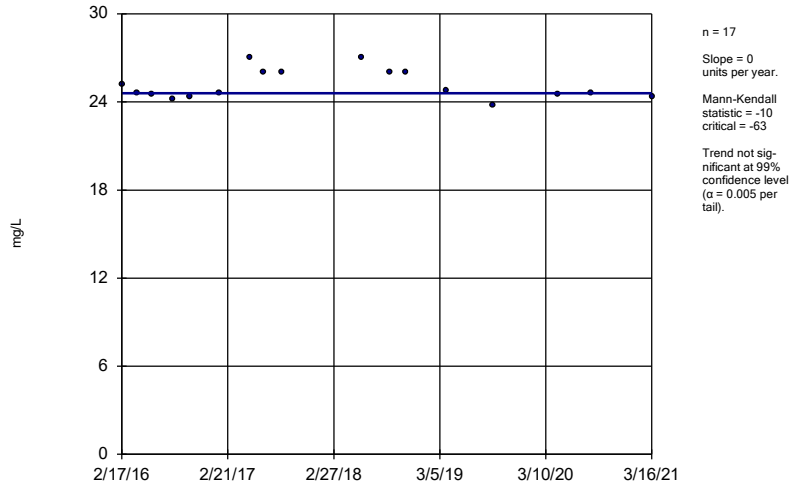
GC-AP-MW-29 (bg)



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

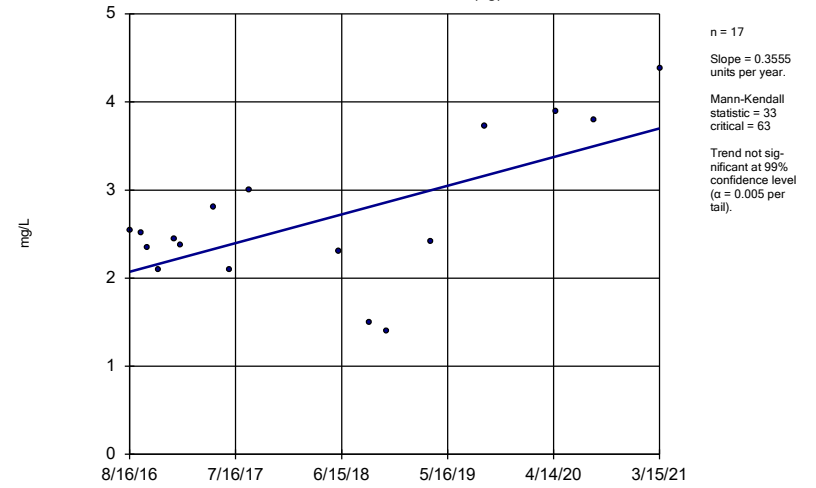
GC-AP-MW-3



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

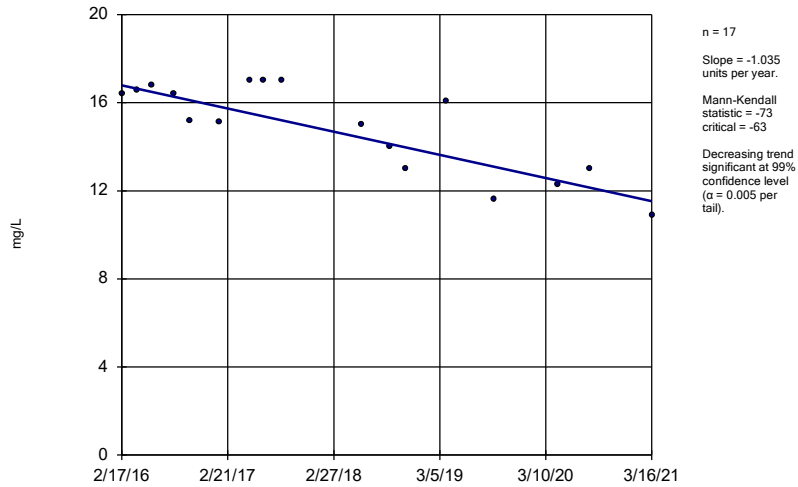
GC-AP-MW-30 (bg)



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

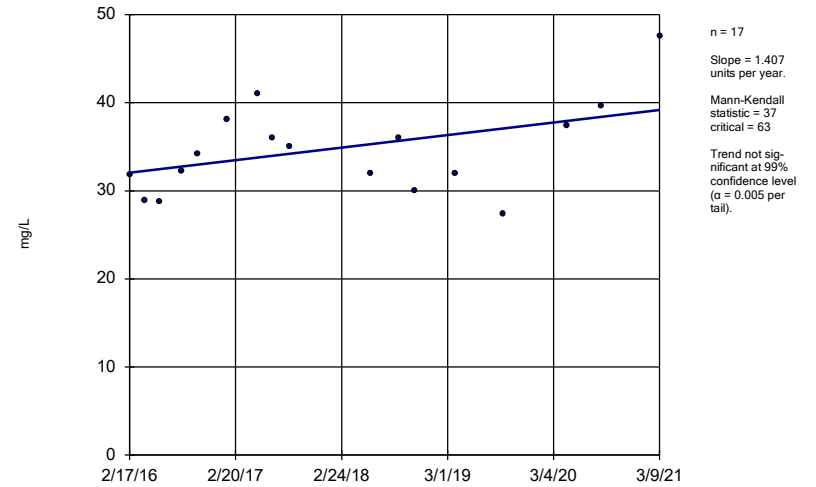
GC-AP-MW-5



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

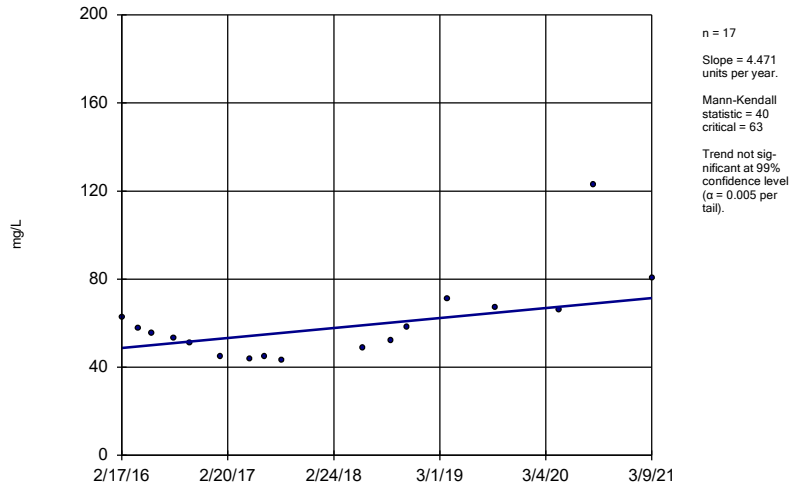
GC-AP-MW-6



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

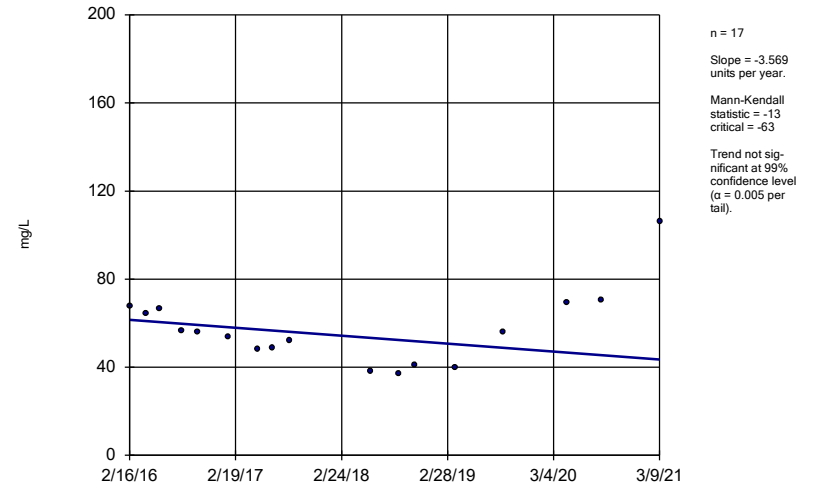
GC-AP-MW-7



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

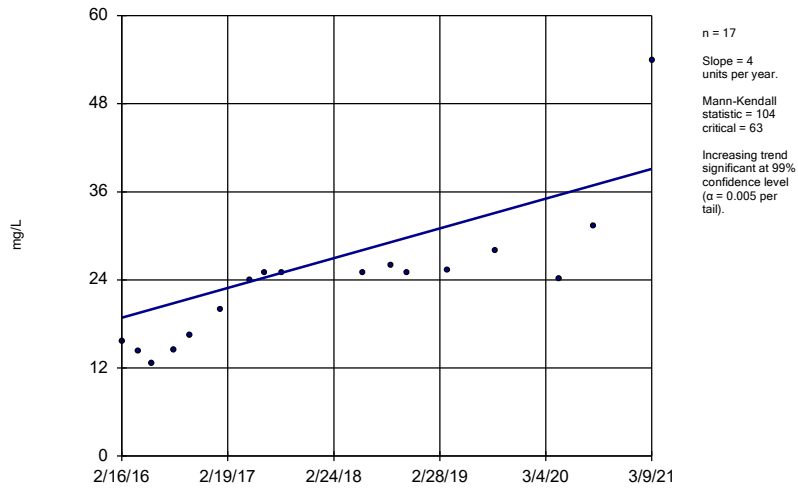
GC-AP-MW-8



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

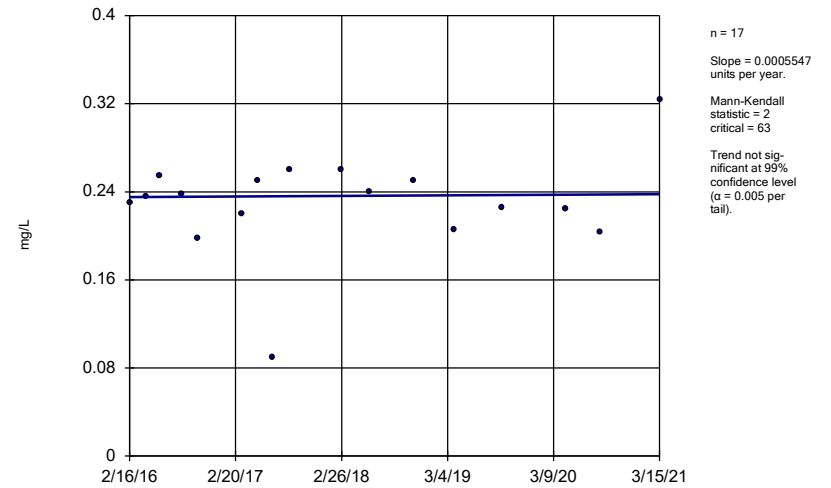
GC-AP-MW-9



Constituent: Chloride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

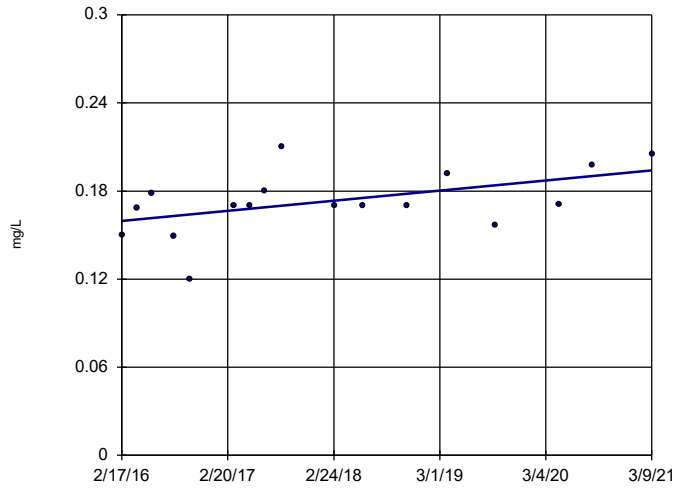
GC-AP-MW-10



Constituent: Fluoride Analysis Run 5/20/2021 5:20 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-18



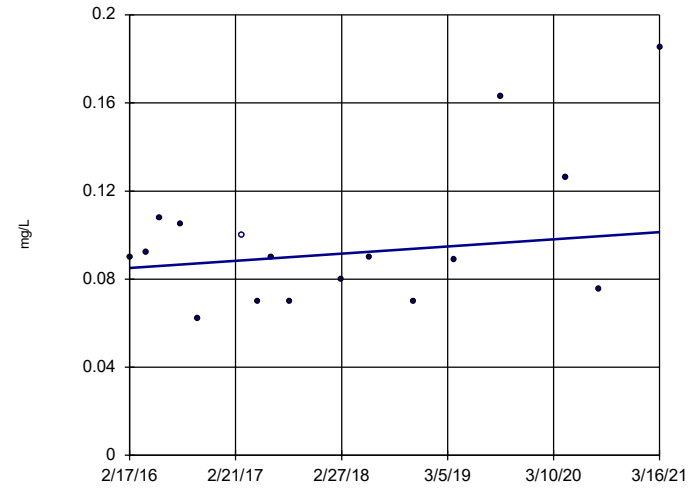
n = 17
 Slope = 0.006815
 units per year.
 Mann-Kendall
 statistic = 56
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-2

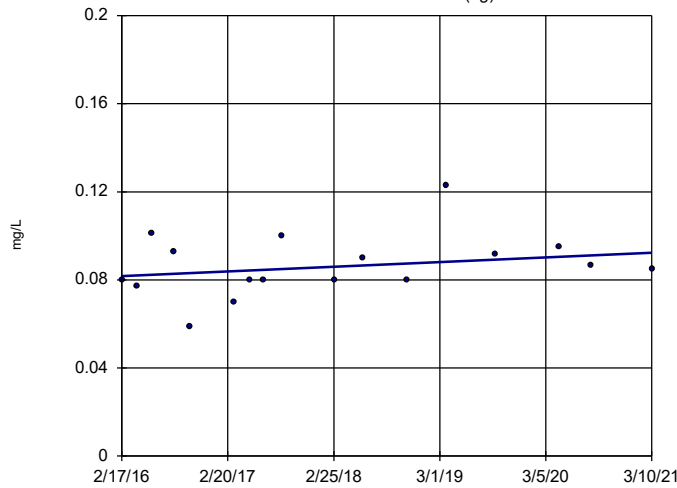


n = 17
 Slope = 0.003214
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-23 (bg)



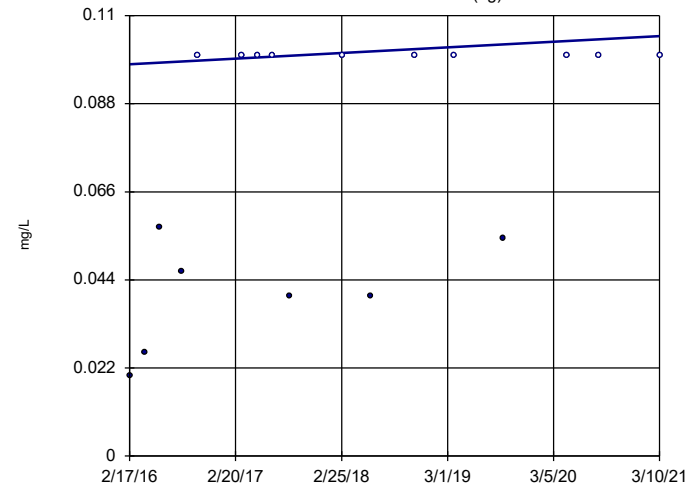
n = 17
 Slope = 0.002095
 units per year.
 Mann-Kendall
 statistic = 32
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-24 (bg)

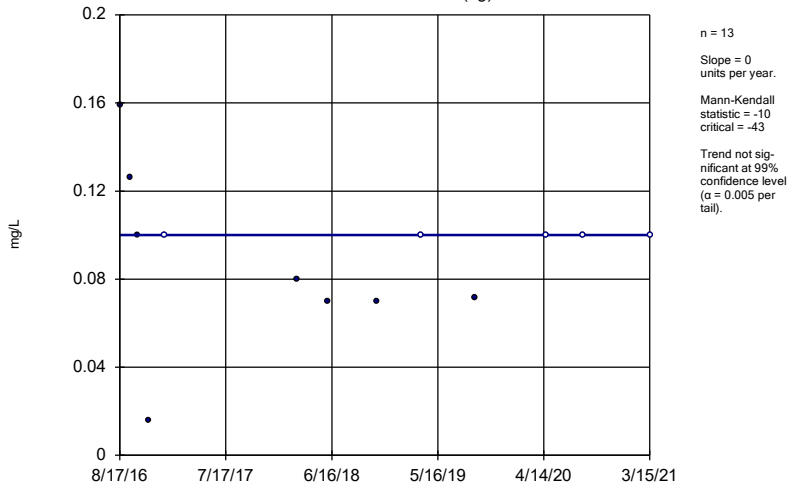


n = 17
 Slope = 0.001385
 units per year.
 Mann-Kendall
 statistic = 46
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

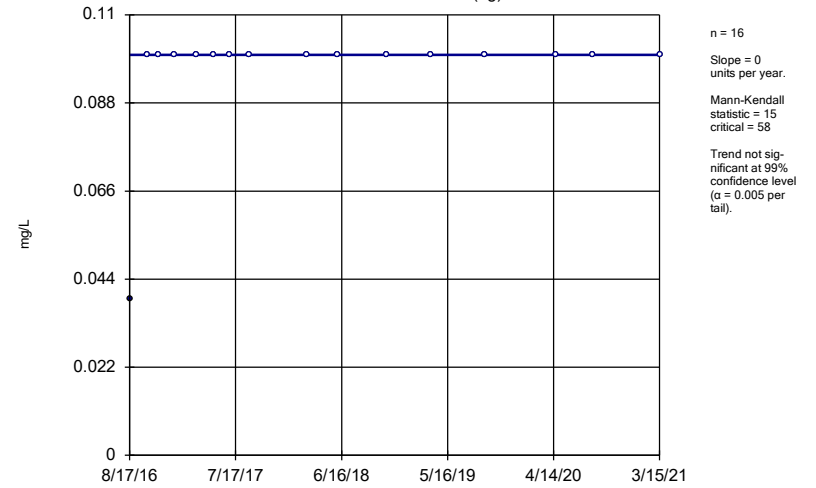
GC-AP-MW-26 (bg)



Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

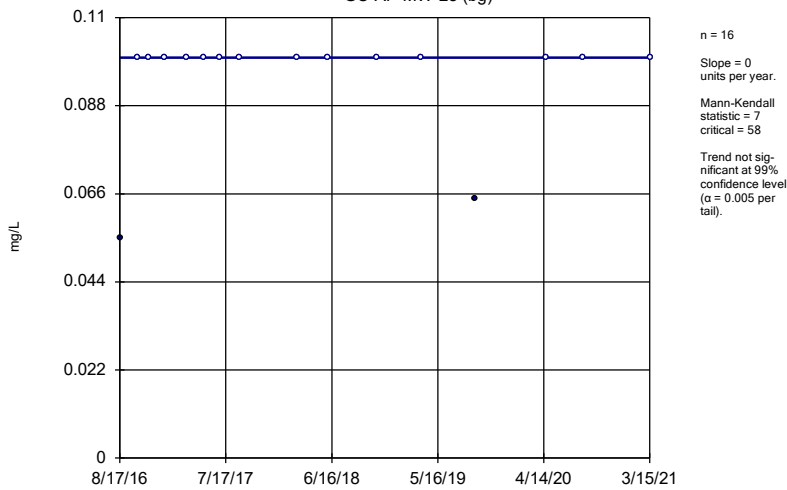
GC-AP-MW-27 (bg)



Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

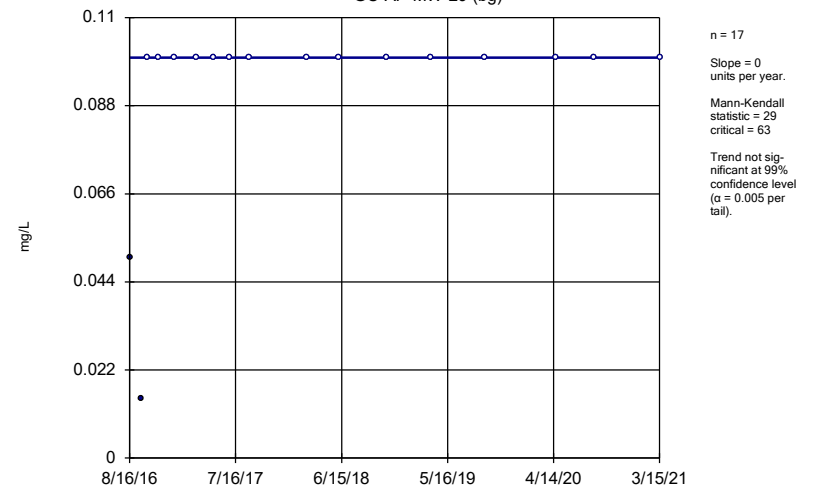
GC-AP-MW-28 (bg)



Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

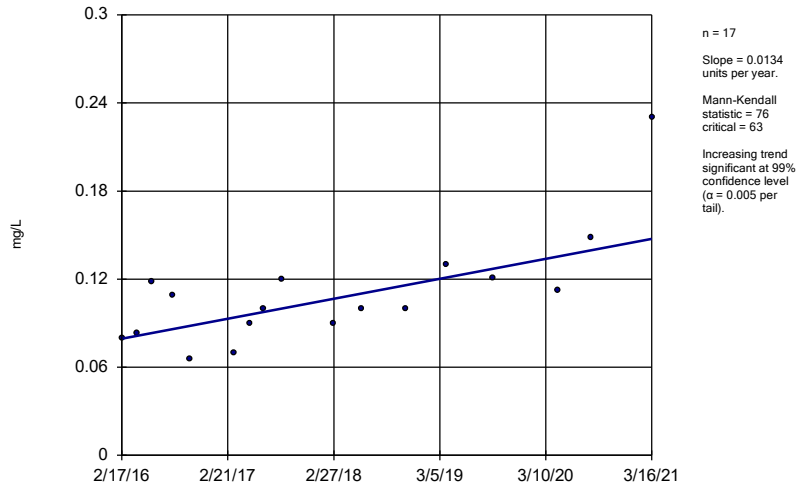
GC-AP-MW-29 (bg)



Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-3

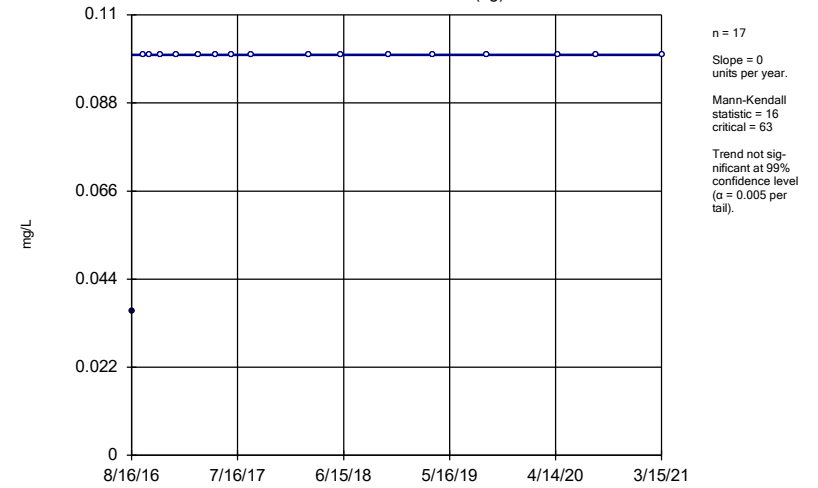


Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

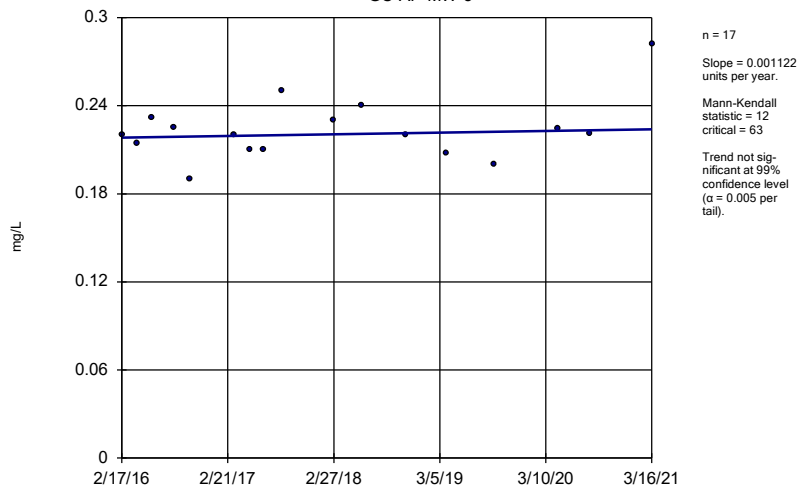
GC-AP-MW-30 (bg)



Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

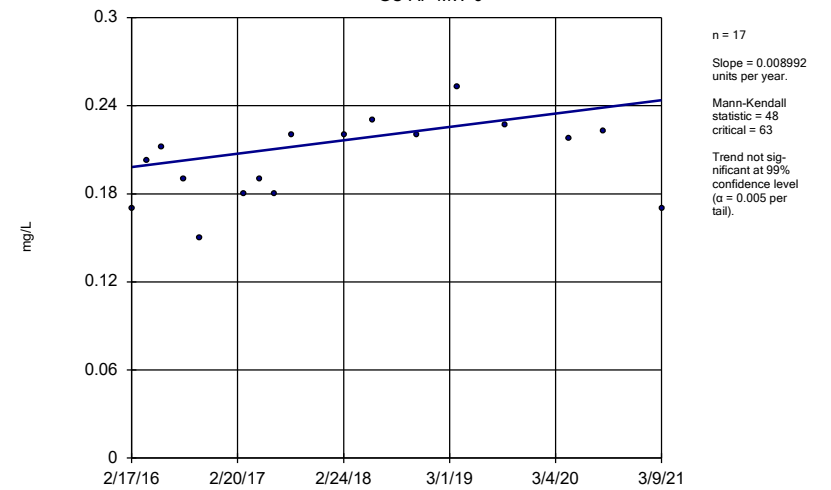
GC-AP-MW-5



Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

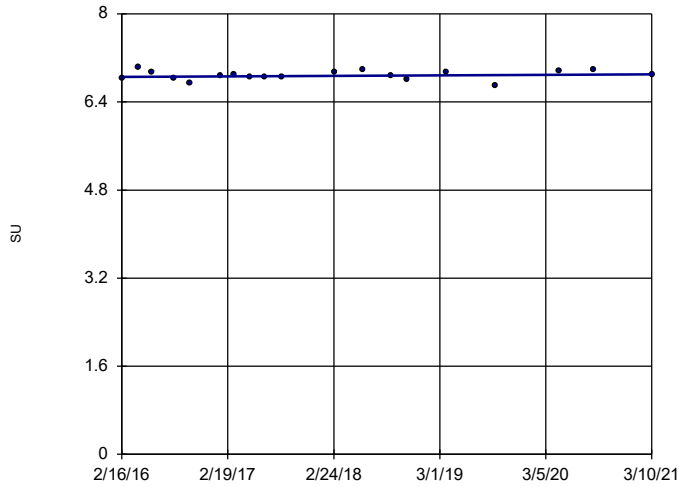
GC-AP-MW-6



Constituent: Fluoride Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

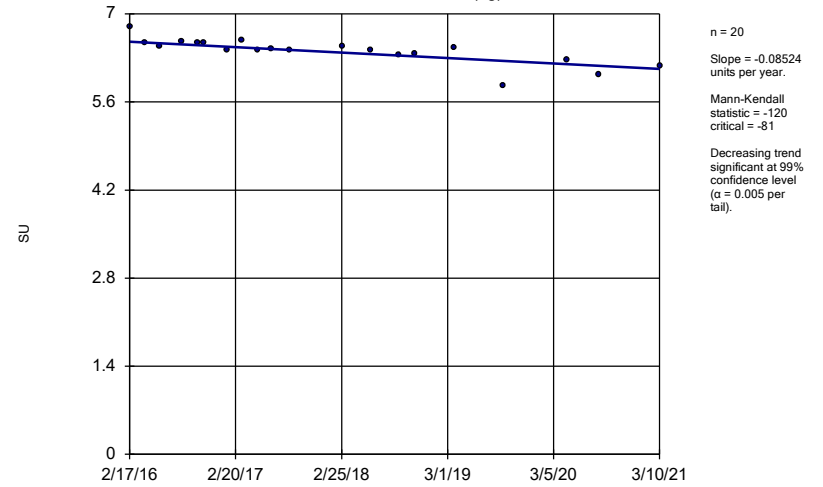
GC-AP-MW-12



Constituent: pH Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

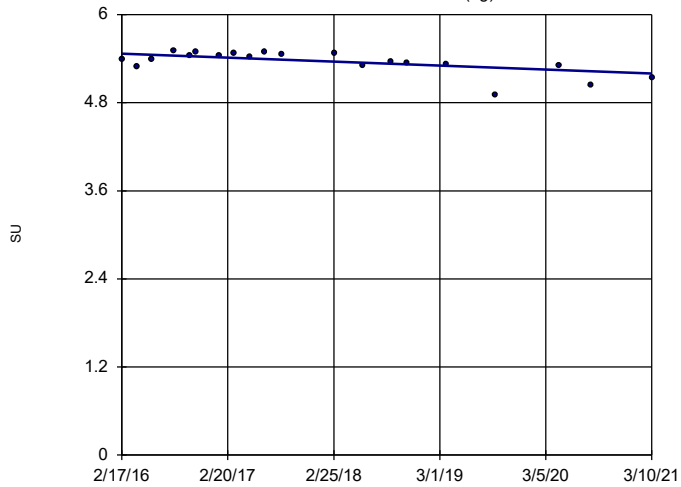
GC-AP-MW-23 (bg)



Constituent: pH Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

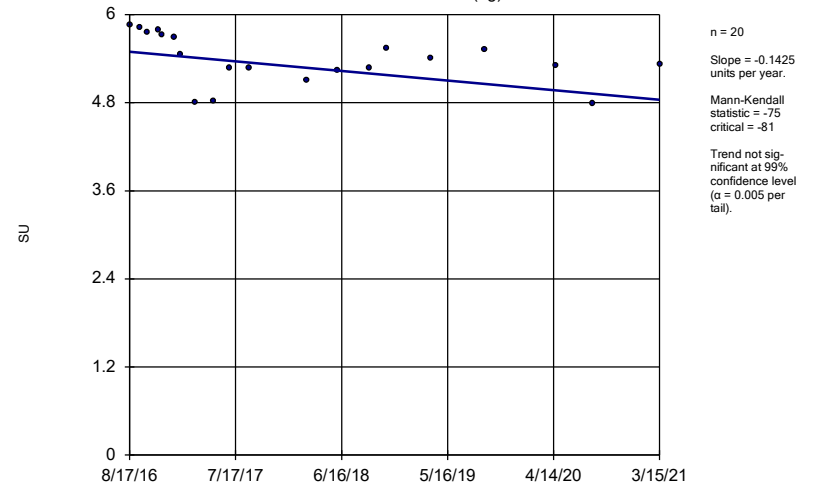
GC-AP-MW-24 (bg)



Constituent: pH Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

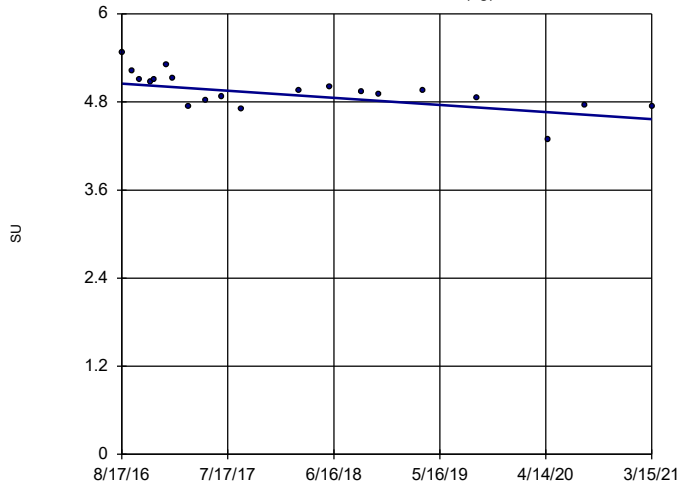
GC-AP-MW-26 (bg)



Constituent: pH Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

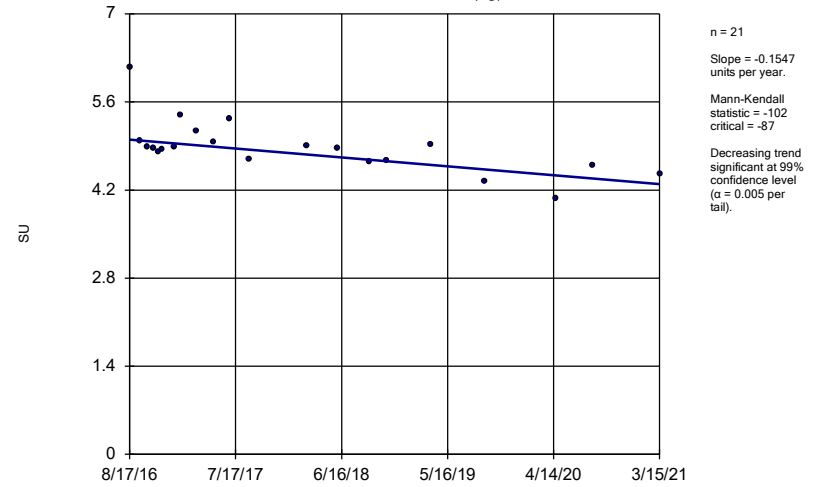
GC-AP-MW-27 (bg)



Constituent: pH Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

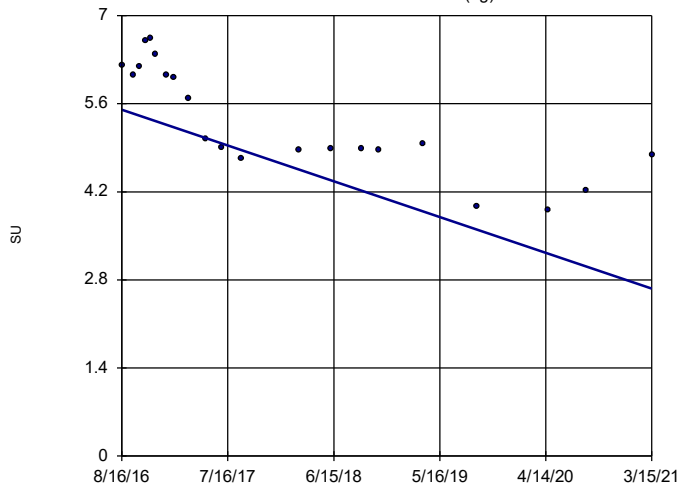
GC-AP-MW-28 (bg)



Constituent: pH Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

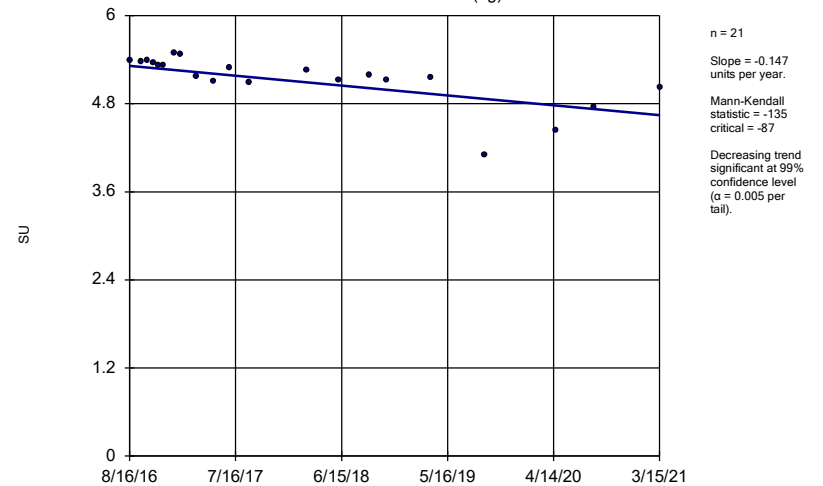
GC-AP-MW-29 (bg)



Constituent: pH Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

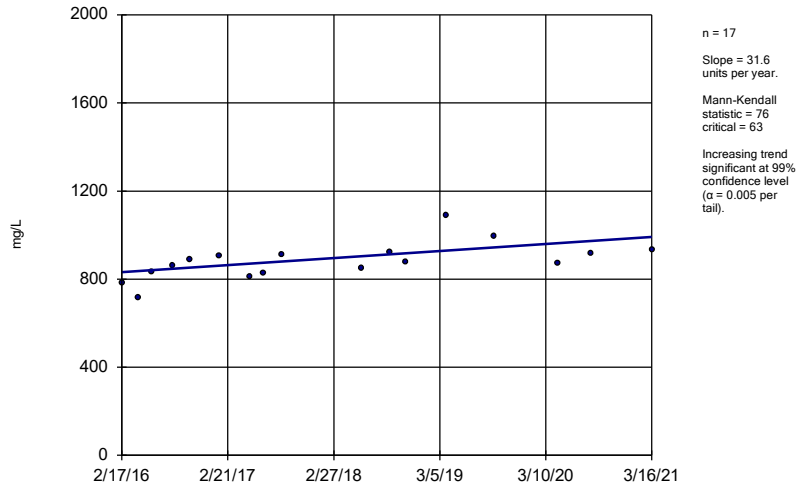
GC-AP-MW-30 (bg)



Constituent: pH Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

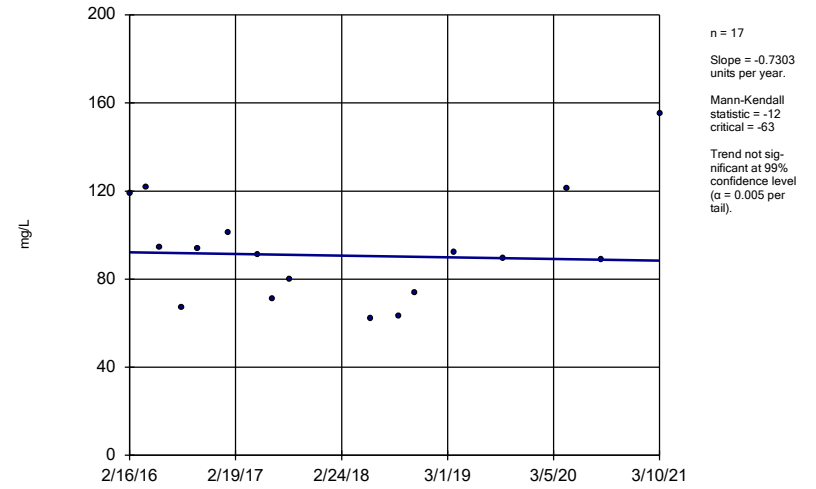
GC-AP-MW-1



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

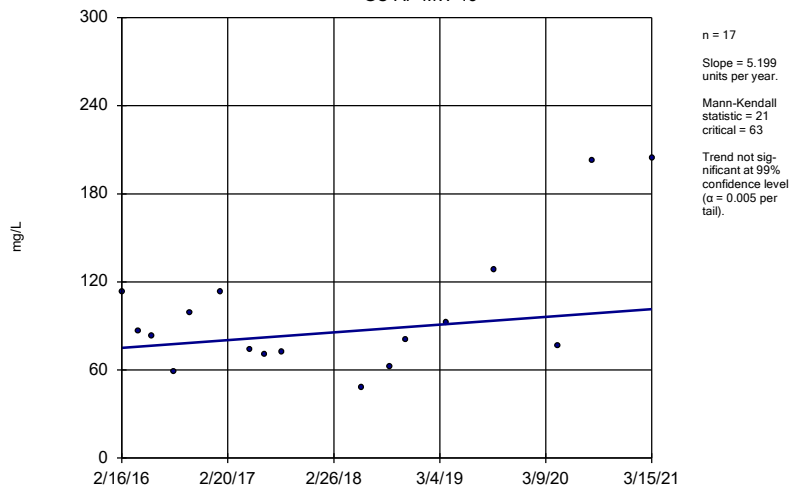
GC-AP-MW-12



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

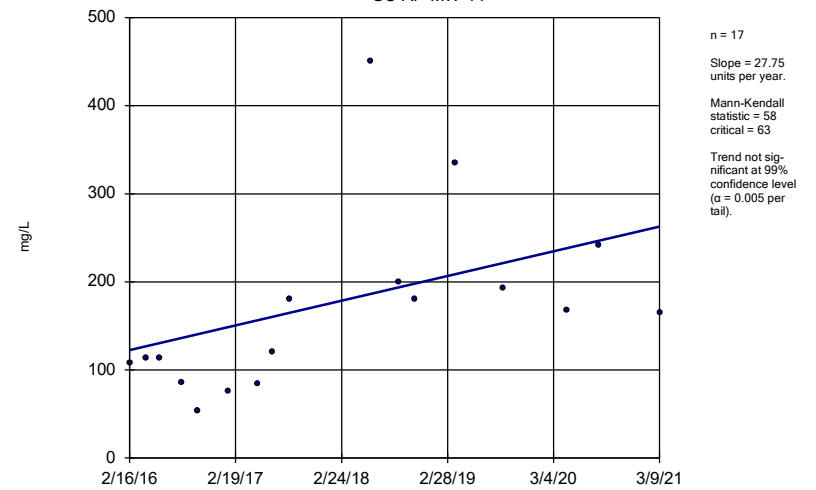
GC-AP-MW-13



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

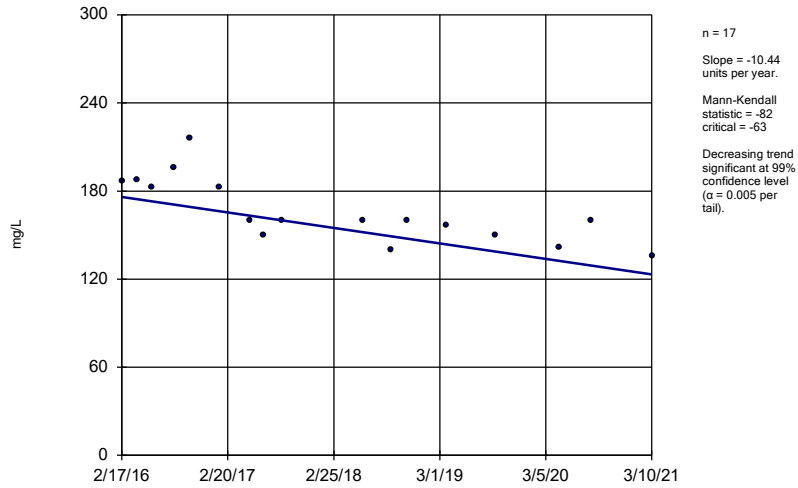
GC-AP-MW-14



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

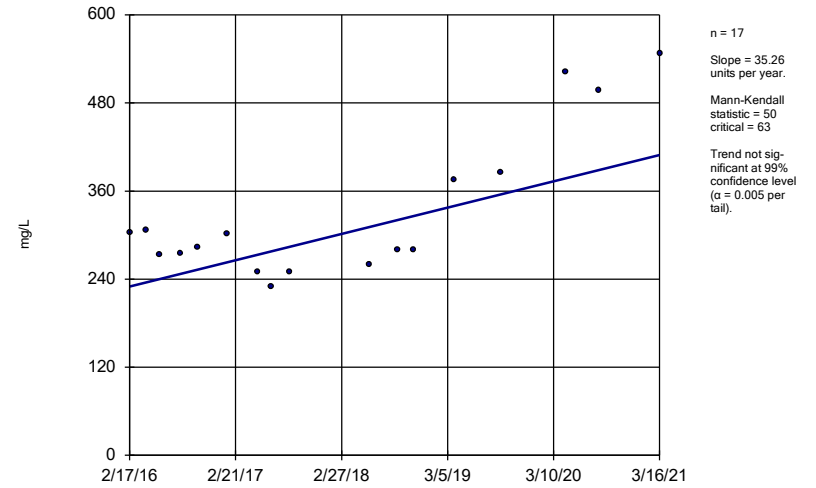
GC-AP-MW-15



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

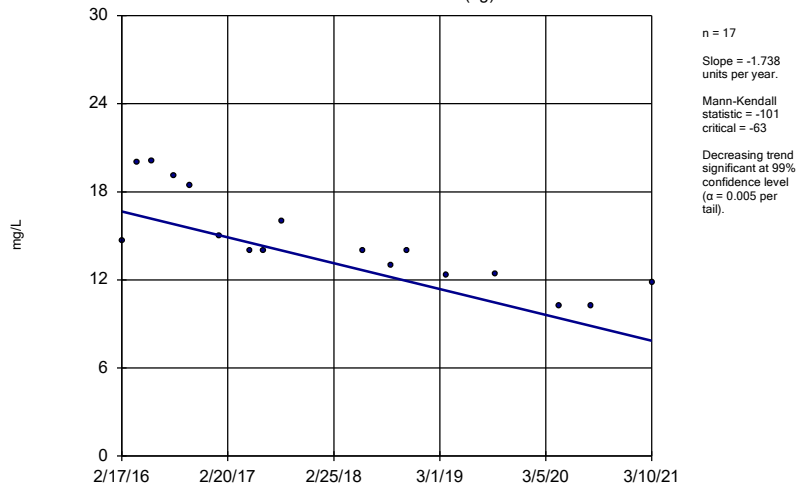
GC-AP-MW-2



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

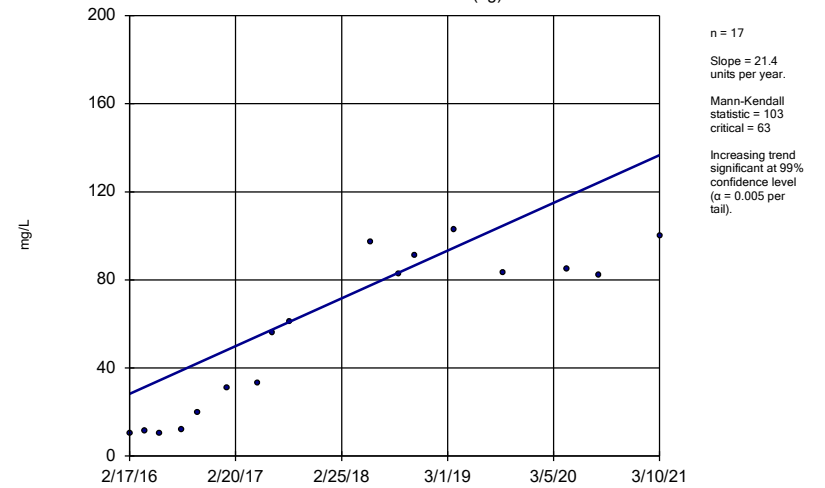
GC-AP-MW-23 (bg)



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

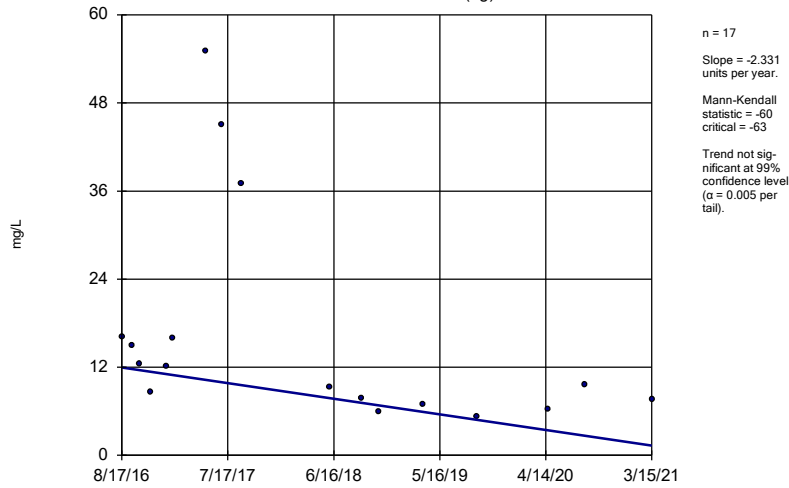
GC-AP-MW-24 (bg)



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-26 (bg)

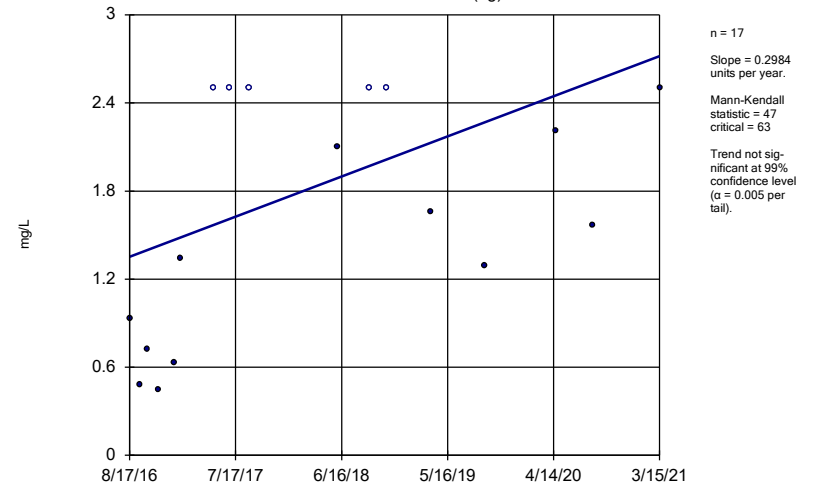


Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

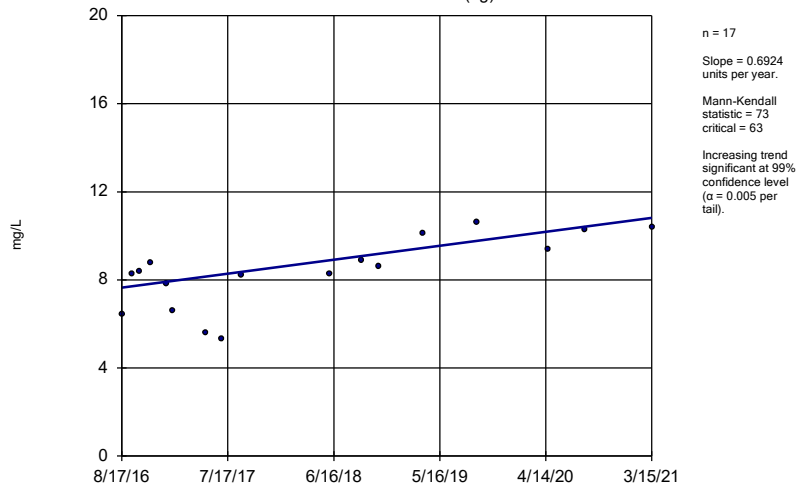
GC-AP-MW-27 (bg)



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-28 (bg)

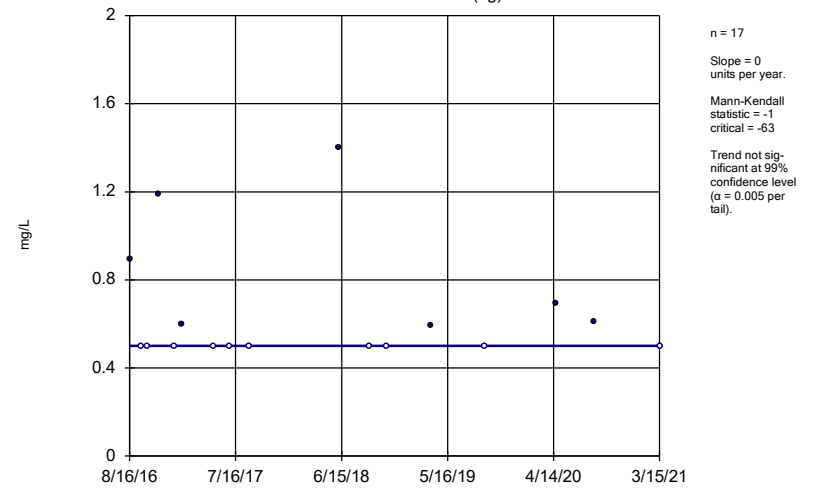


Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

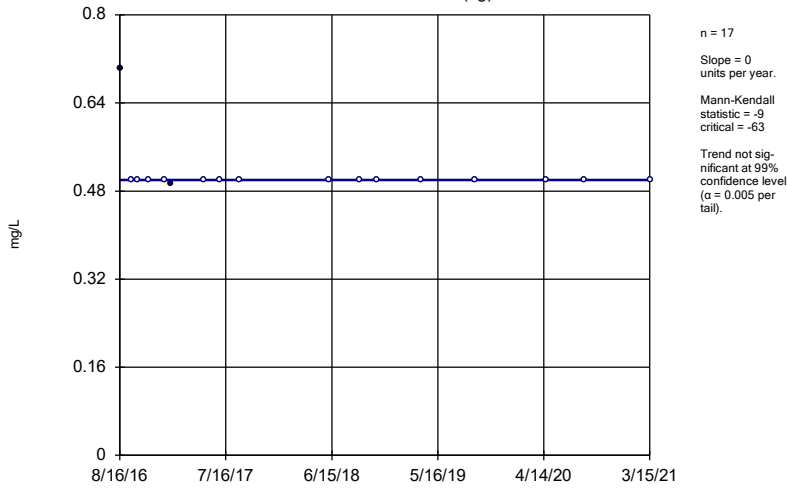
GC-AP-MW-29 (bg)



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

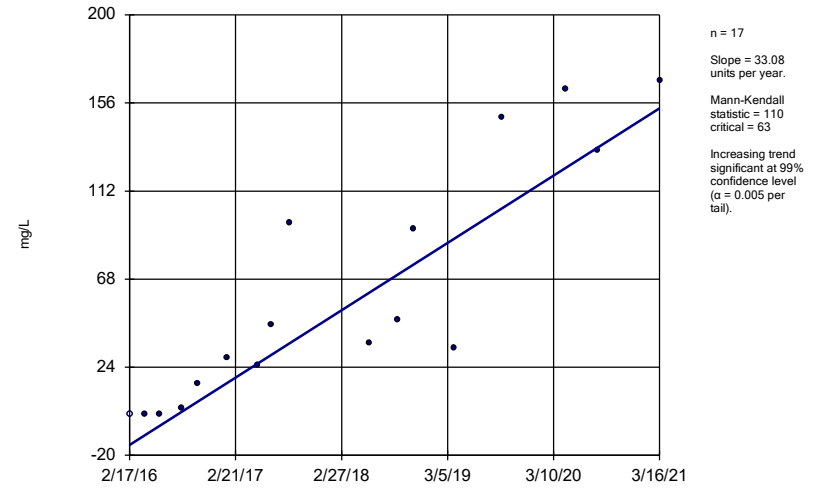
GC-AP-MW-30 (bg)



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

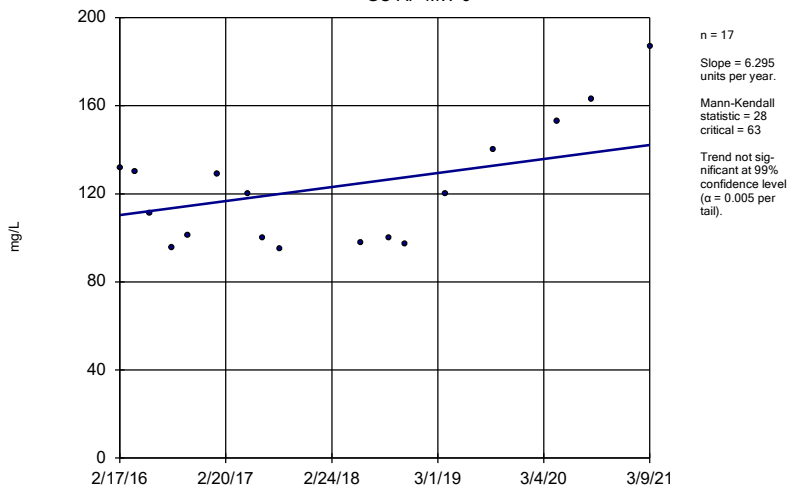
GC-AP-MW-5



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

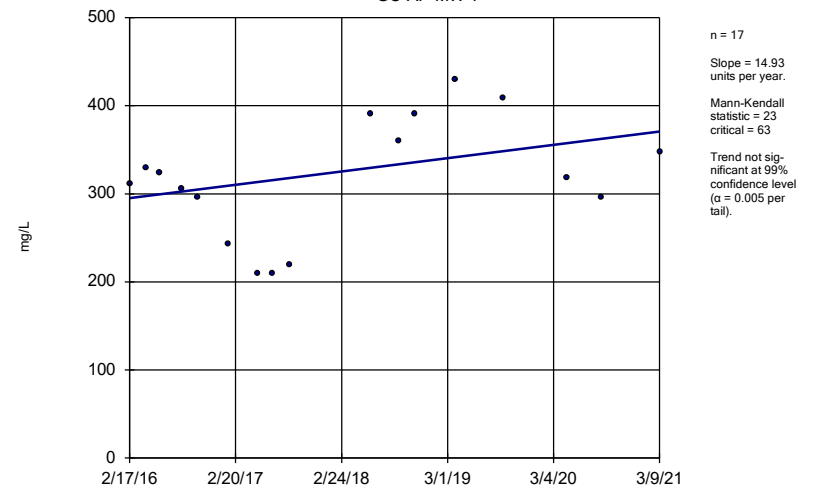
GC-AP-MW-6



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

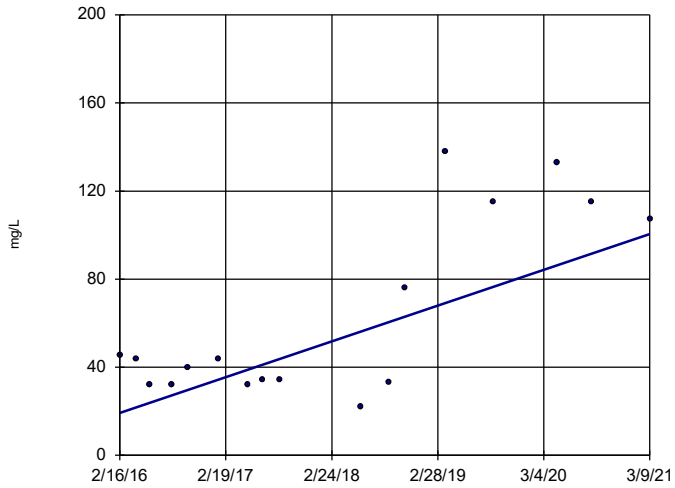
GC-AP-MW-7



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

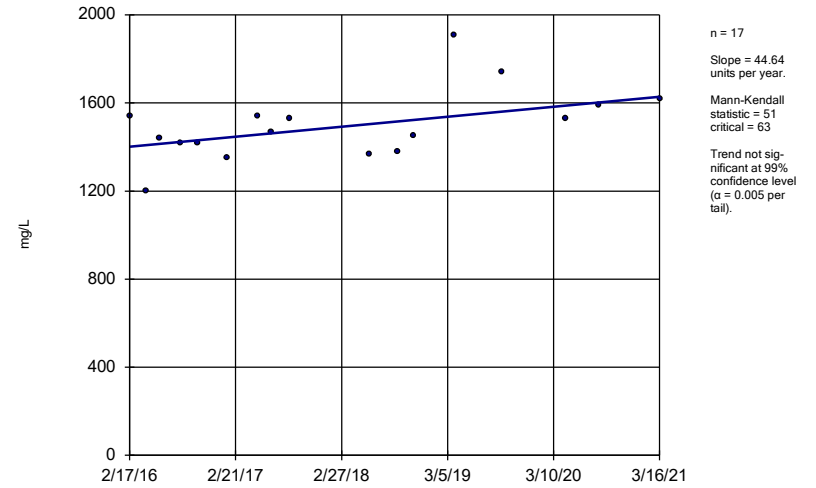
GC-AP-MW-9



Constituent: Sulfate Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

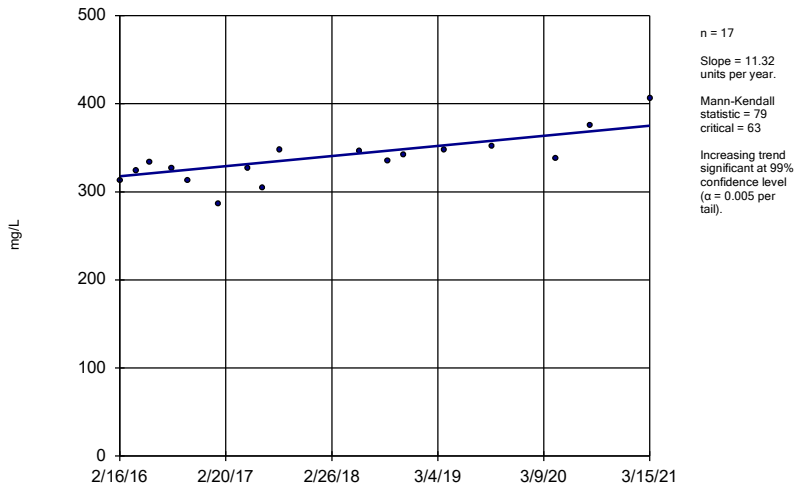
GC-AP-MW-1



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

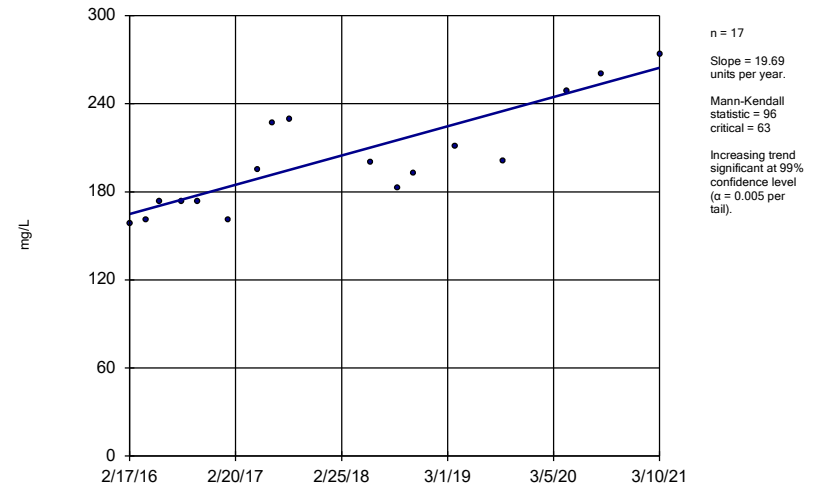
GC-AP-MW-10



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

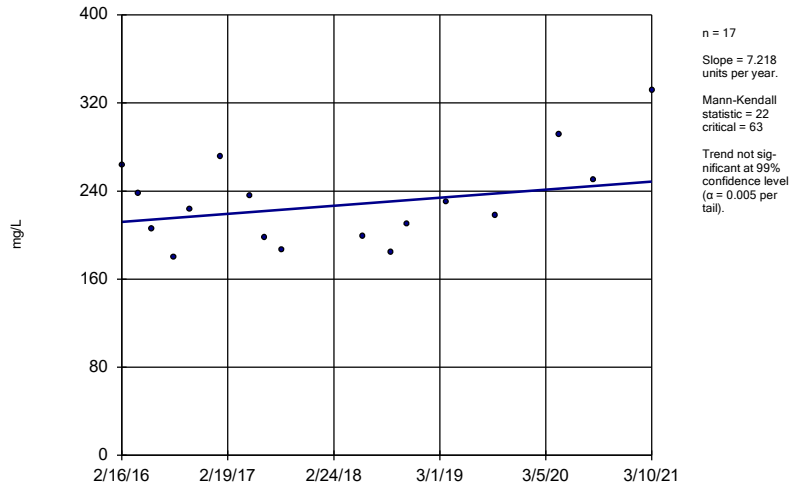
GC-AP-MW-11



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

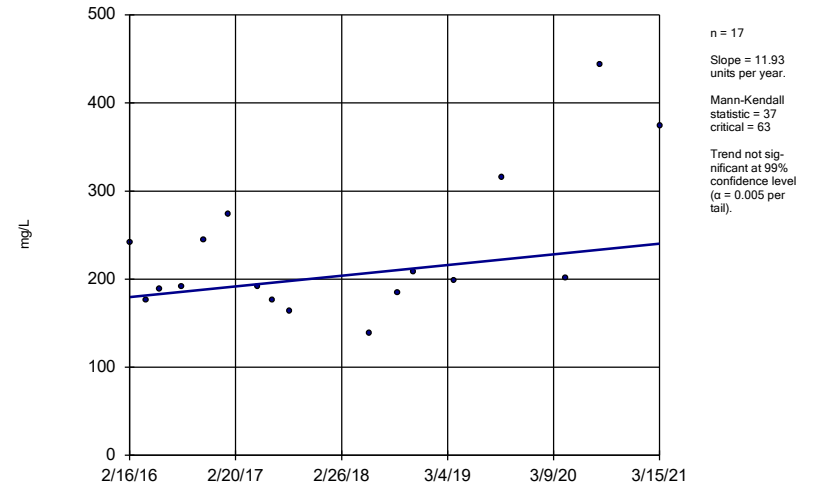
GC-AP-MW-12



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

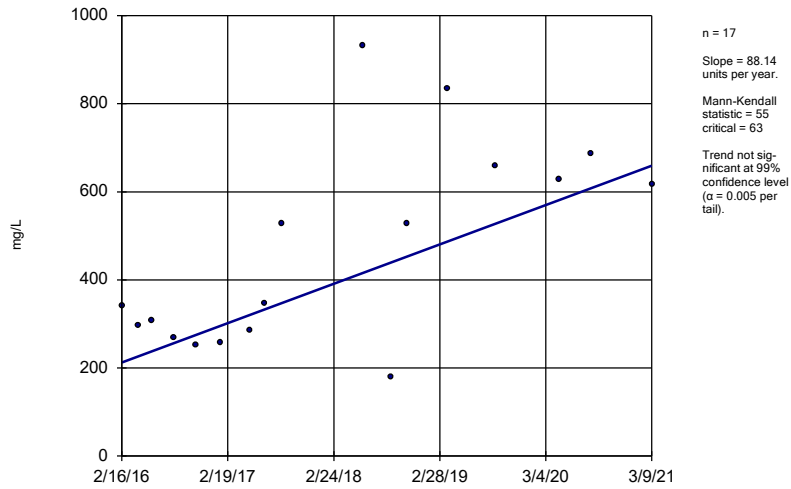
GC-AP-MW-13



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

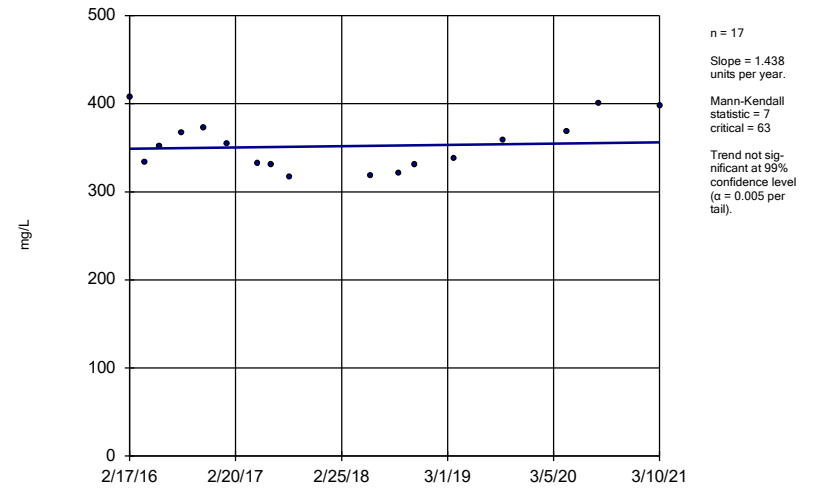
GC-AP-MW-14



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

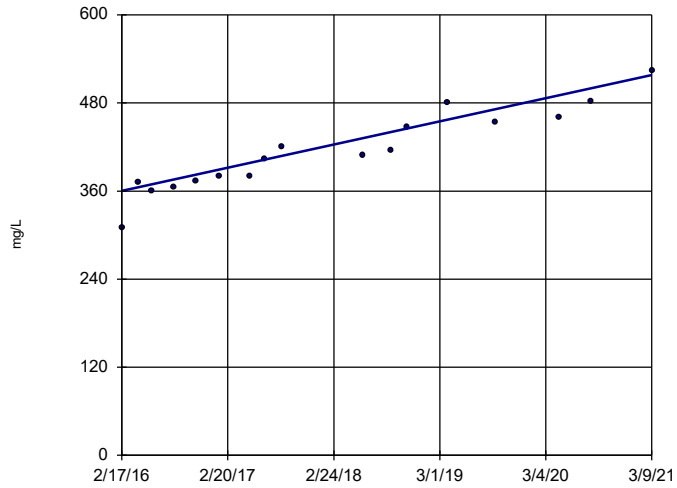
GC-AP-MW-15



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-16

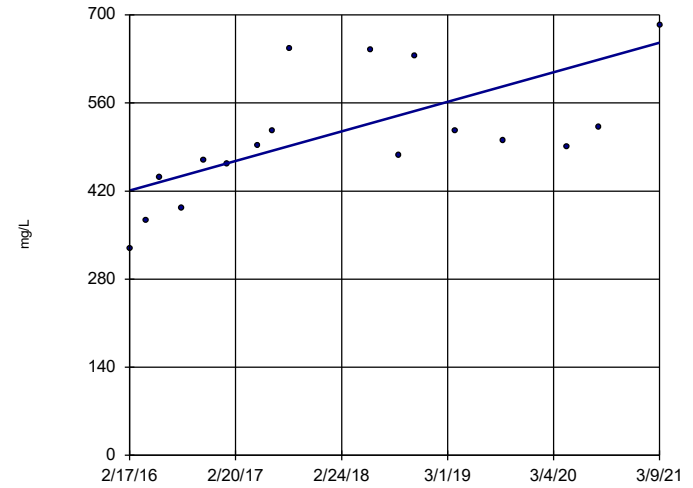


n = 17
 Slope = 31.25 units per year.
 Mann-Kendall statistic = 124
 critical = 63
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-17

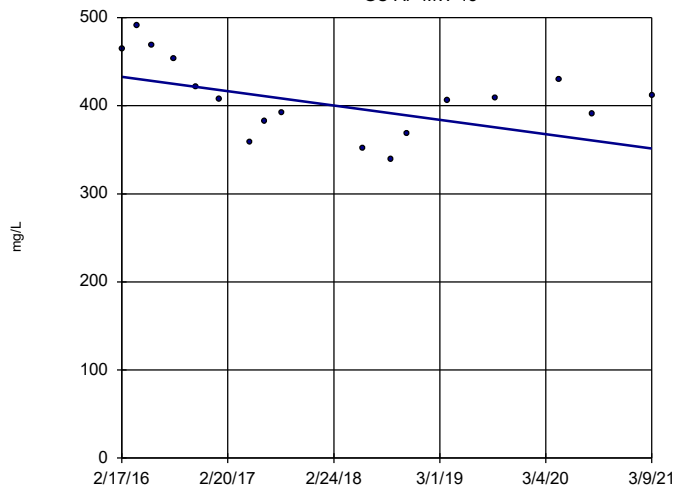


n = 17
 Slope = 46.44 units per year.
 Mann-Kendall statistic = 81
 critical = 63
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-18

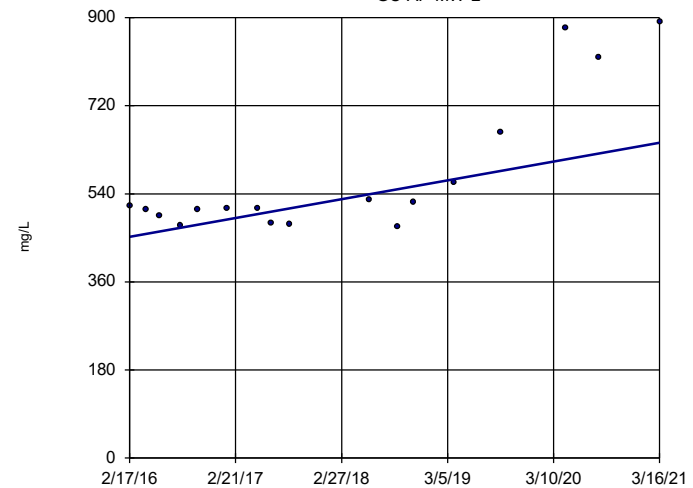


n = 17
 Slope = -16.06 units per year.
 Mann-Kendall statistic = -42
 critical = -63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-2

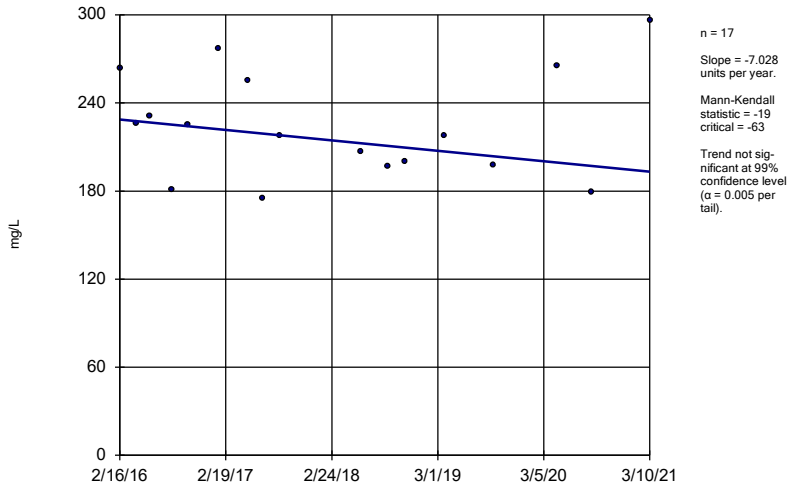


n = 17
 Slope = 37.9 units per year.
 Mann-Kendall statistic = 66
 critical = 63
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

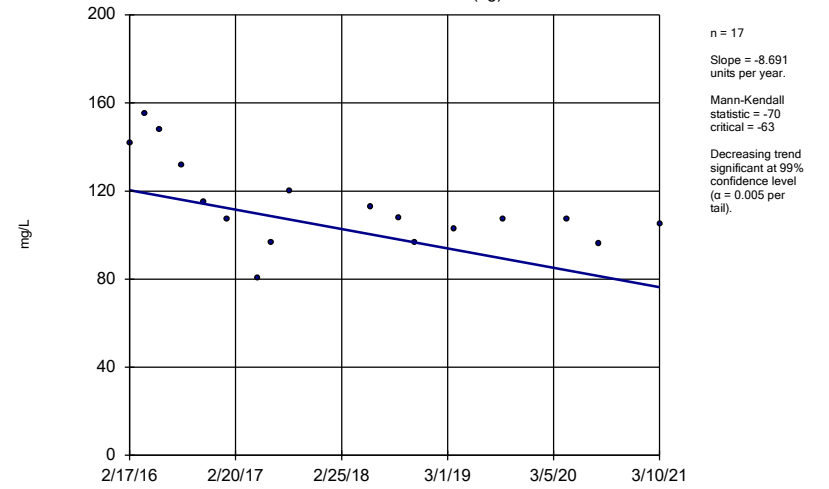
GC-AP-MW-21



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

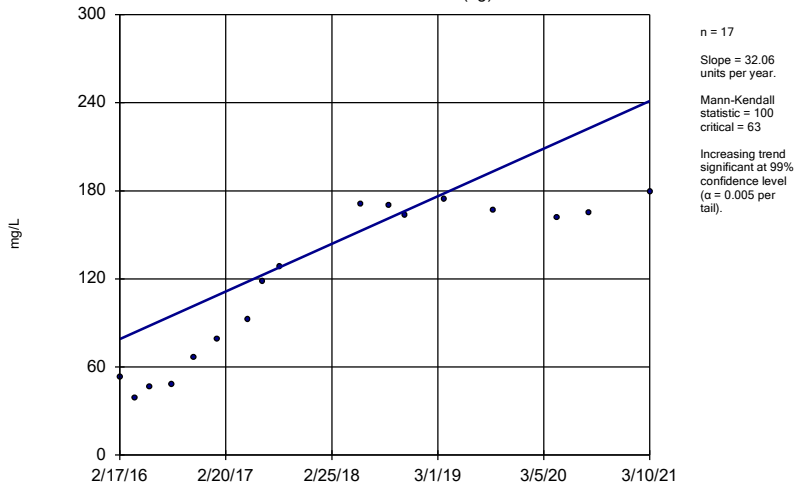
GC-AP-MW-23 (bg)



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

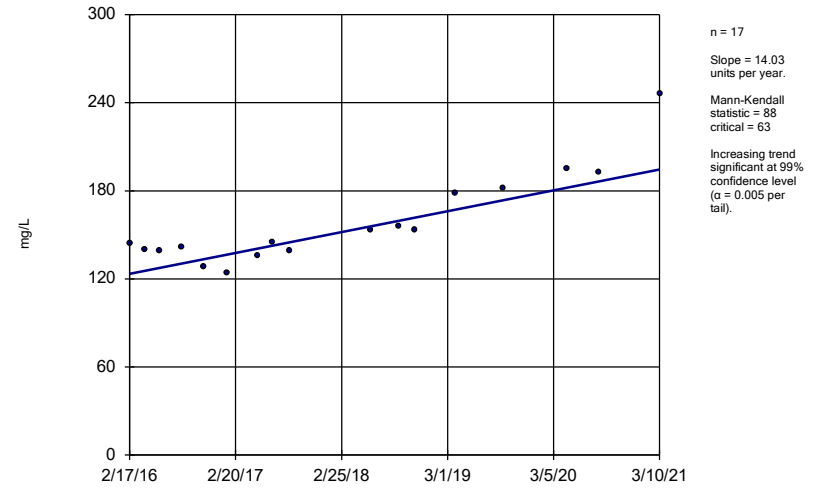
GC-AP-MW-24 (bg)



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

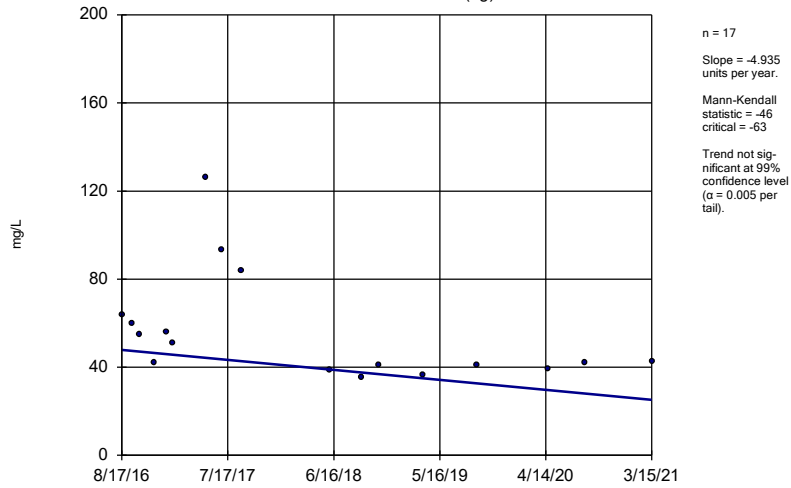
GC-AP-MW-25



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-26 (bg)

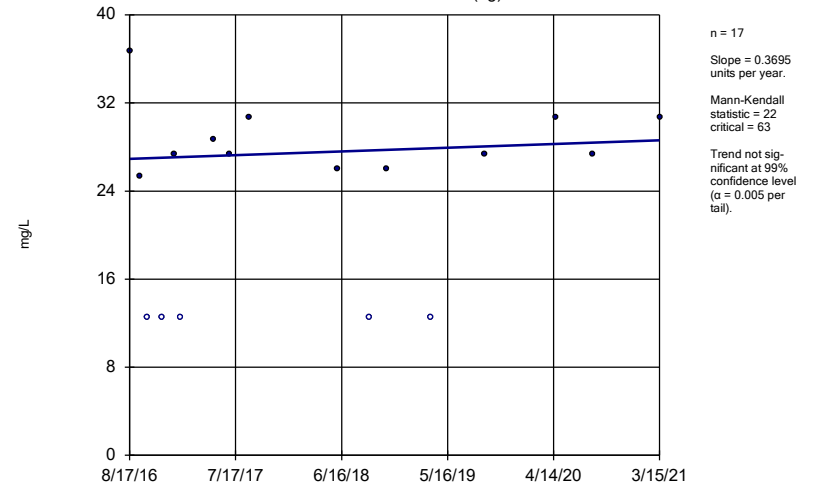


Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

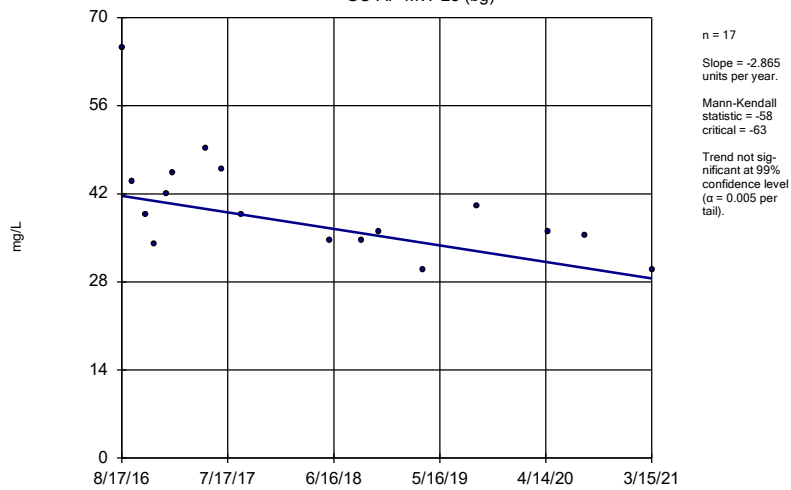
GC-AP-MW-27 (bg)



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-28 (bg)

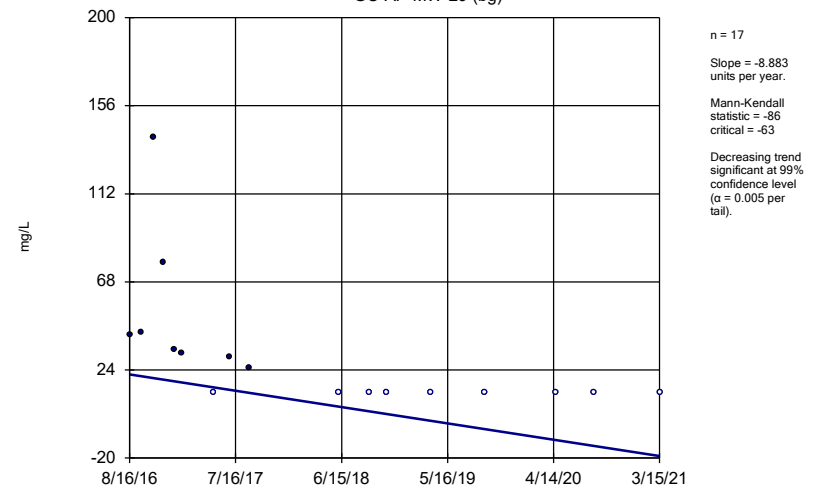


Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

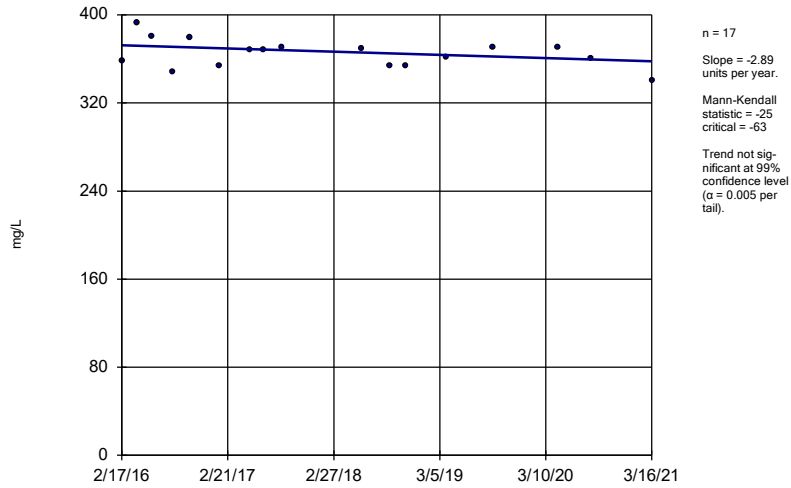
GC-AP-MW-29 (bg)



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-3

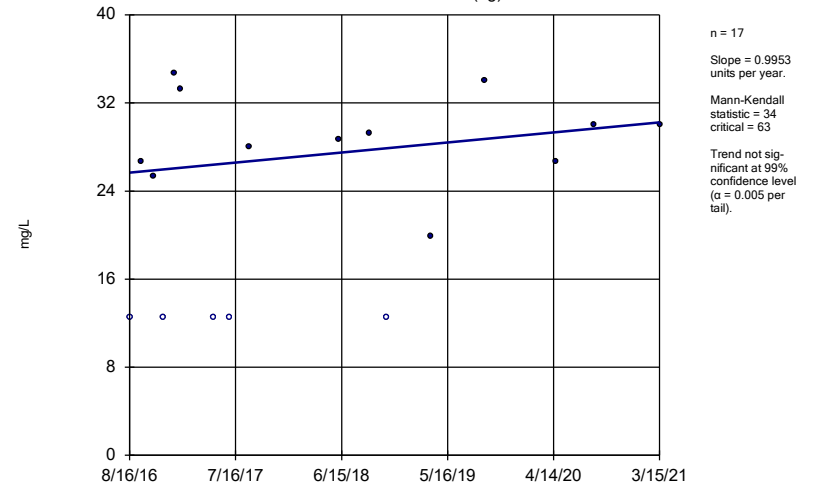


Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

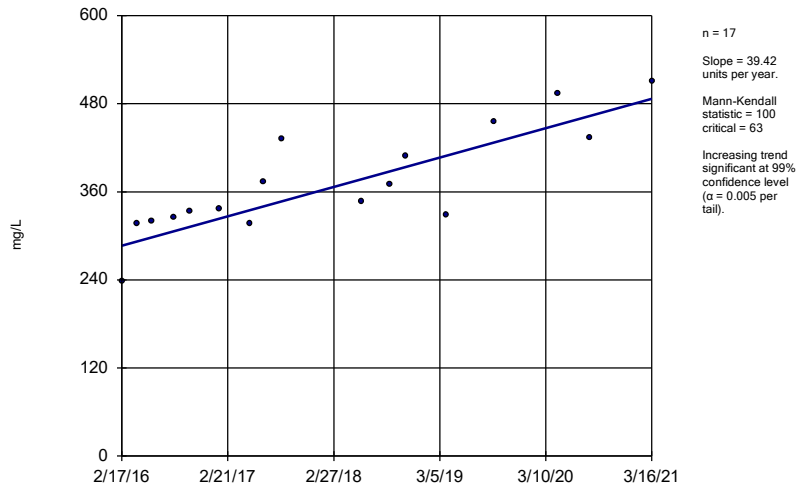
GC-AP-MW-30 (bg)



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

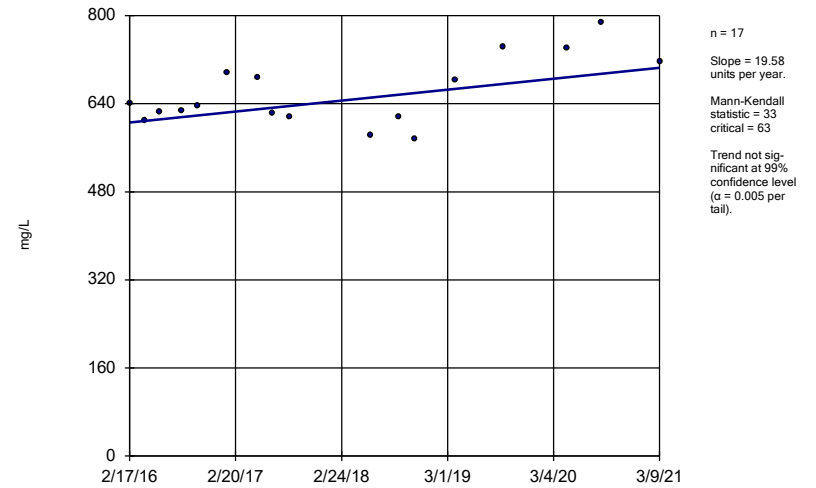
GC-AP-MW-5



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

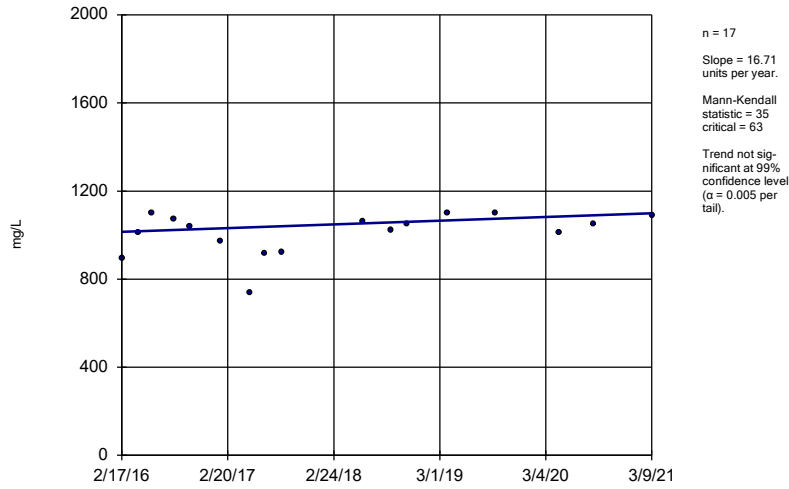
GC-AP-MW-6



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

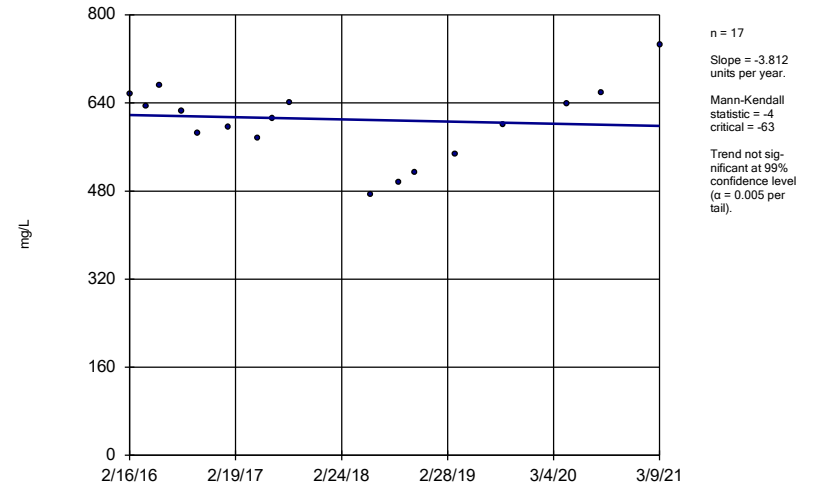
GC-AP-MW-7



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

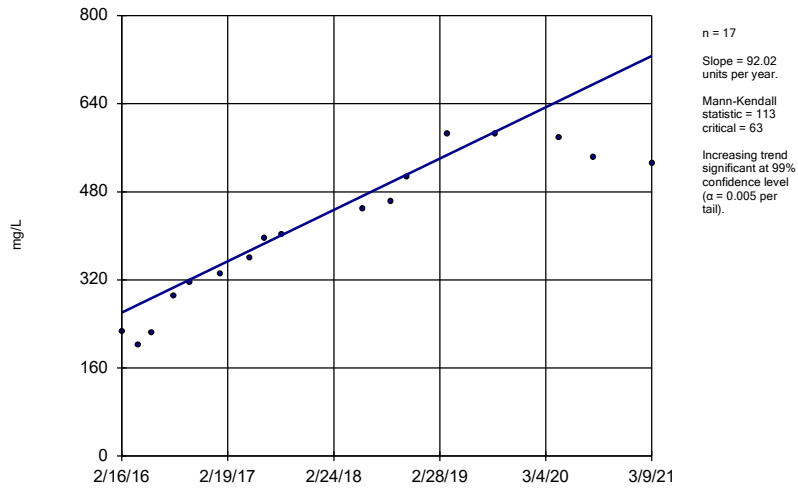
GC-AP-MW-8



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-9



Constituent: TDS Analysis Run 5/20/2021 5:21 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

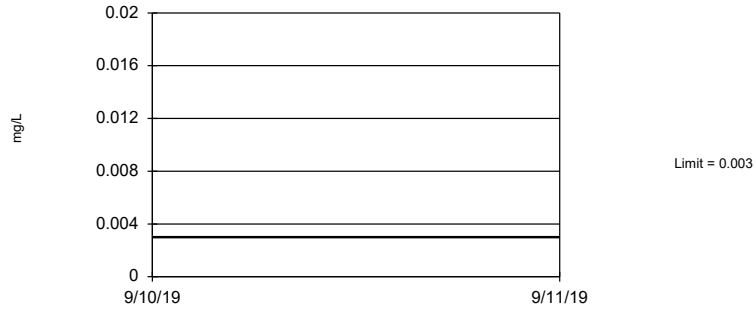
FIGURE F.

Upper Tolerance Limits - Appendix IV

Greene County Client: Southern Company Data: Greene County AP Printed 7/23/2020, 8:28 AM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	91	n/a	n/a	89.01	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	91	n/a	n/a	85.71	n/a	n/a	0.009394	NP Inter(NDs)
Barium (mg/L)	0.347	n/a	91	n/a	n/a	0	n/a	n/a	0.009394	NP Inter(normal...)
Beryllium (mg/L)	0.003	n/a	91	n/a	n/a	86.81	n/a	n/a	0.009394	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	91	n/a	n/a	78.02	n/a	n/a	0.009394	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Cobalt (mg/L)	0.0167	n/a	91	n/a	n/a	60.44	n/a	n/a	0.009394	NP Inter(normal...)
Combined Radium 226 + 228 (pCi/L)	1.88	n/a	91	n/a	n/a	4.396	n/a	n/a	0.009394	NP Inter(normal...)
Fluoride (mg/L)	0.159	n/a	92	n/a	n/a	61.96	n/a	n/a	0.008924	NP Inter(normal...)
Lead (mg/L)	0.005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	91	n/a	n/a	98.9	n/a	n/a	0.009394	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	91	n/a	n/a	91.21	n/a	n/a	0.009394	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	91	n/a	n/a	97.8	n/a	n/a	0.009394	NP Inter(NDs)

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 89.01% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Antimony Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

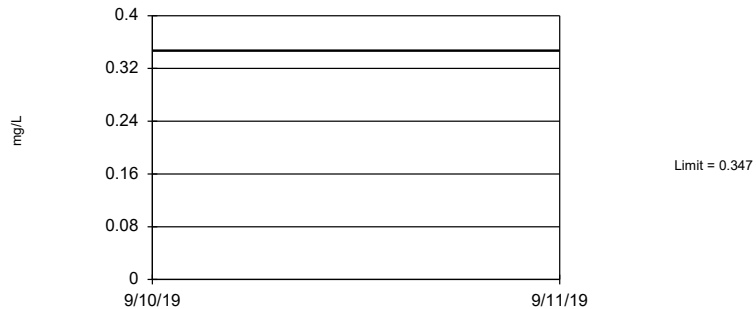
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 85.71% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Arsenic Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

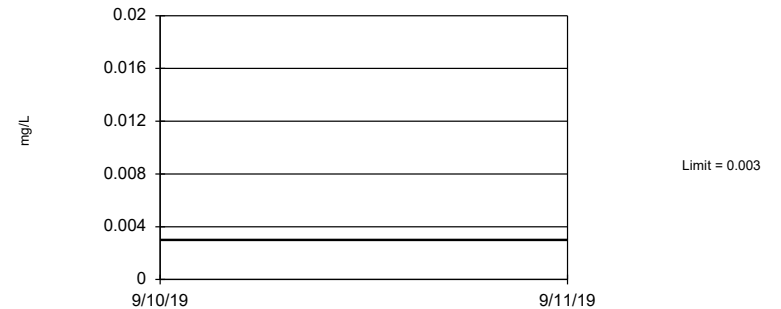
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Barium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

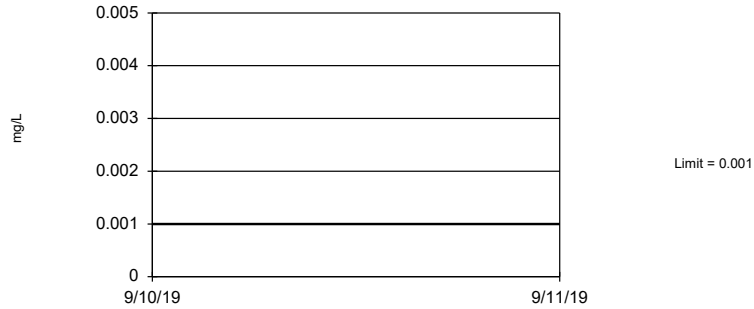
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 86.81% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Beryllium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 78.02% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Cadmium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

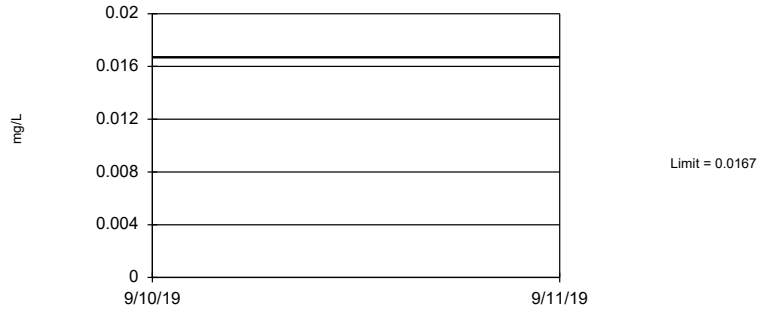
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Chromium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

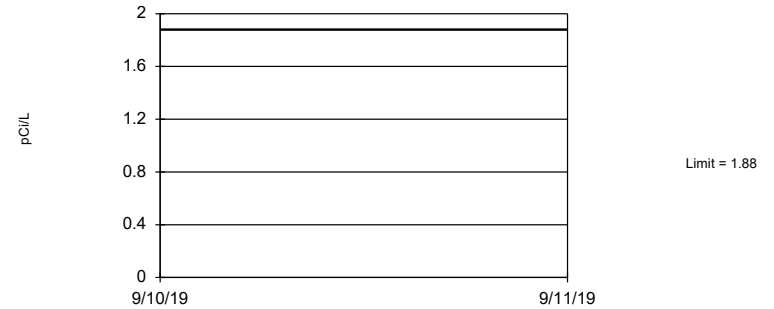
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 60.44% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Cobalt Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

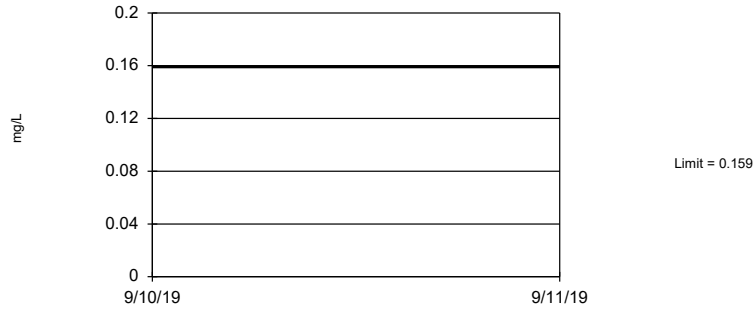
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 4.396% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Combined Radium 226 + 228 Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 92 background values. 61.96% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008924.

Constituent: Fluoride Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Lead Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

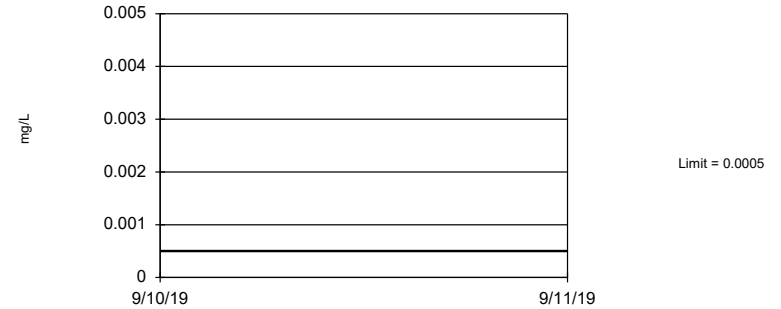
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Lithium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Mercury Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

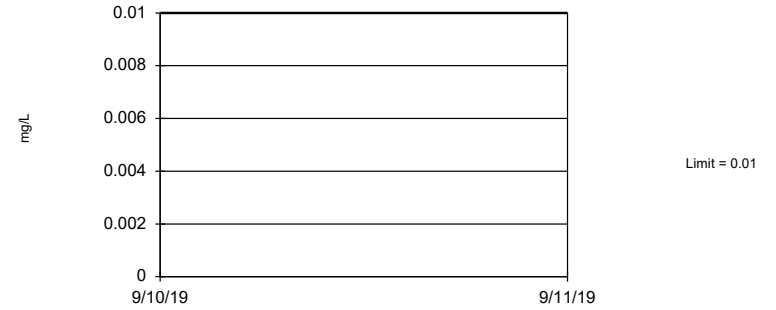
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 98.9% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Molybdenum Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

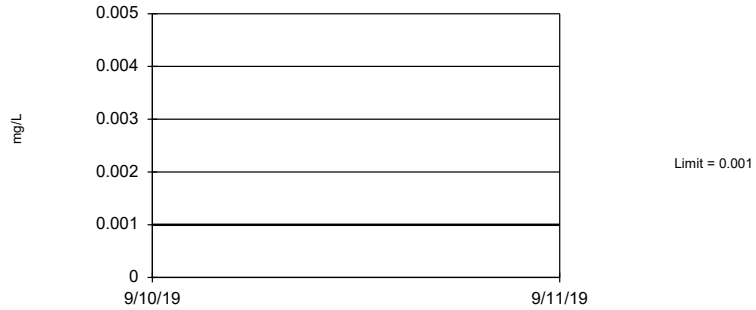
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 91.21% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Selenium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 97.8% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Thallium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV
Greene County Client: Southern Company Data: Greene County AP

FIGURE G.

GREENE COUNTY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	1.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	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 2019.

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.02569	0.01931	0.01	Yes	8	0.0225	0.00301	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0233	0.0121	0.01	Yes	8	0.01463	0.003689	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-14	0.03279	0.02046	0.01	Yes	8	0.02663	0.005816	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.104	0.06647	0.01	Yes	8	0.08521	0.01769	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.7145	0.2903	0.01	Yes	8	0.5024	0.2001	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.0661	0.0477	0.01	Yes	8	0.05304	0.007249	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-5	0.4596	0.4104	0.01	Yes	8	0.435	0.02324	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2217	0.07051	0.0167	Yes	8	0.1461	0.07132	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.03812	0.01876	0.0167	Yes	8	0.02844	0.009132	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.03559	0.01738	0.0167	Yes	8	0.02649	0.00859	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.155	0.104	0.04	Yes	8	0.1193	0.01591	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1273	0.08185	0.04	Yes	8	0.1046	0.02145	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1311	0.05136	0.04	Yes	8	0.09125	0.03764	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.3271	0.07565	0.04	Yes	8	0.2014	0.1186	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.9973	0.5717	0.04	Yes	8	0.7845	0.2008	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6209	0.5311	0.04	Yes	8	0.576	0.04236	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6425	0.5135	0.04	Yes	8	0.578	0.06089	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.742	0.525	0.04	Yes	8	0.6319	0.1118	0	None	In(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3931	0.3386	0.04	Yes	8	0.3659	0.02569	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.112	0.04593	0.04	Yes	8	0.07898	0.03118	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1374	0.1018	0.04	Yes	8	0.1196	0.01677	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-1	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-11	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-12	0.00121	0.000656	0.006	No	8	0.0009945	0.0001529	75	None	No	0.004	NP (normality)
Antimony (mg/L)	GC-AP-MW-13	0.003408	0.001845	0.006	No	8	0.002626	0.0007372	0	None	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.001015	0.000897	0.006	No	8	0.001	0.00004172	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.001015	0.000964	0.006	No	8	0.001009	0.00001803	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-25	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-3	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-31	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-32	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-33	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.00141	0.001015	0.006	No	8	0.001064	0.0001397	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.001015	0.001015	0.006	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-1	0.02569	0.01931	0.01	Yes	8	0.0225	0.00301	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0233	0.0121	0.01	Yes	8	0.01463	0.003689	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-11	0.00682	0.002945	0.01	No	8	0.004883	0.001828	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.000251	0.000203	0.01	No	8	0.000209	0.00001697	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-13	0.004974	0.001641	0.01	No	8	0.003258	0.001731	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.03279	0.02046	0.01	Yes	8	0.02663	0.005816	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-15	0.000349	0.000203	0.01	No	8	0.0002213	0.00005162	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-16	0.104	0.06647	0.01	Yes	8	0.08521	0.01769	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.7145	0.2903	0.01	Yes	8	0.5024	0.2001	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.0661	0.0477	0.01	Yes	8	0.05304	0.007249	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-2	0.01658	0.005614	0.01	No	8	0.0111	0.005174	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.000216	0.000203	0.01	No	8	0.0002046	0.000004596	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-25	0.00033	0.000203	0.01	No	8	0.0002189	0.0000449	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-3	0.009595	0.006147	0.01	No	8	0.007871	0.001627	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-31	0.000203	0.000111	0.01	No	8	0.0001915	0.00003253	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.000203	0.000142	0.01	No	8	0.0001954	0.00002157	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.000203	0.000203	0.01	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-5	0.4596	0.4104	0.01	Yes	8	0.435	0.02324	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-6	0.000303	0.000203	0.01	No	8	0.0002155	0.00003536	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-7	0.000203	0.00015	0.01	No	8	0.0001964	0.00001874	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-8	0.000248	0.000203	0.01	No	8	0.0002086	0.00001591	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-9	0.0107	0.009412	0.01	No	8	0.01006	0.0006089	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03564	0.02169	2	No	8	0.02866	0.006581	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.261	0.167	2	No	8	0.194	0.03295	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-11	0.08528	0.05869	2	No	8	0.07185	0.01304	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03143	0.01919	2	No	8	0.02519	0.006391	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1931	0.07579	2	No	8	0.1329	0.06861	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1067	0.05961	2	No	8	0.08315	0.0222	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.0365	0.0269	2	No	8	0.0312	0.004224	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-16	0.09538	0.05234	2	No	8	0.07386	0.0203	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3319	0.1828	2	No	8	0.2574	0.07034	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1299	0.08438	2	No	8	0.1071	0.02146	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03553	0.02892	2	No	8	0.03223	0.003123	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GC-AP-MW-21	0.0827	0.03511	2	No	8	0.05835	0.02472	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1074	0.08194	2	No	8	0.09469	0.01203	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.159	0.0936	2	No	8	0.1124	0.02415	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-31	0.02925	0.02205	2	No	8	0.02565	0.0034	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0692	0.0123	2	No	8	0.02021	0.01981	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.09765	0.05349	2	No	8	0.07448	0.02729	0	None	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.3077	0.1457	2	No	8	0.2293	0.07859	0	None	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.07786	0.05082	2	No	8	0.06434	0.01276	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08524	0.06904	2	No	8	0.07714	0.007643	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1299	0.07796	2	No	8	0.1039	0.02449	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1899	0.1228	2	No	8	0.1564	0.03165	0	None	No	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-25	0.001015	0.001015	0.004	No	8	0.001015	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.001	0.000347	0.005	No	8	0.0009184	0.0002309	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.001	0.00012	0.005	No	8	0.00089	0.0003111	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.001	0.00013	0.005	No	8	0.0008913	0.0003076	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.001	0.0000702	0.005	No	8	0.0008838	0.0003287	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.001	0.005	No	8	0.001223	0.0006293	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.001	0.000241	0.005	No	8	0.0009051	0.0002683	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.01	0.000341	0.1	No	8	0.008793	0.003415	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-10	0.01	0.000357	0.1	No	8	0.008795	0.003409	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-12	0.01	0.000224	0.1	No	8	0.008778	0.003456	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-13	0.01	0.000311	0.1	No	8	0.008789	0.003426	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-14	0.01	0.000357	0.1	No	8	0.008795	0.003409	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-15	0.01	0.000301	0.1	No	8	0.008788	0.003429	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.01	0.000444	0.1	No	8	0.008805	0.003379	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-17	0.01	0.000216	0.1	No	8	0.008777	0.003459	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-18	0.01	0.000346	0.1	No	8	0.008793	0.003413	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-2	0.01	0.0004	0.1	No	8	0.0088	0.003394	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-21	0.01	0.000333	0.1	No	8	0.008792	0.003418	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-25	0.01	0.0003	0.1	No	8	0.008787	0.003429	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-3	0.01	0.000347	0.1	No	8	0.008793	0.003413	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-31	0.01	0.000468	0.1	No	8	0.008808	0.00337	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-32	0.01	0.000431	0.1	No	8	0.008804	0.003383	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-33	0.01	0.000679	0.1	No	8	0.008835	0.003295	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-5	0.01	0.000285	0.1	No	8	0.008786	0.003435	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-6	0.01	0.000347	0.1	No	8	0.008793	0.003413	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-7	0.01	0.000351	0.1	No	8	0.008794	0.003411	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-8	0.01	0.000346	0.1	No	8	0.008793	0.003413	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-9	0.01	0.000381	0.1	No	8	0.008798	0.003401	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-1	0.2217	0.07051	0.0167	Yes	8	0.1461	0.07132	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.0475	0.0139	0.0167	No	8	0.02204	0.01156	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-11	0.03812	0.01876	0.0167	Yes	8	0.02844	0.009132	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.00118	0.000203	0.0167	No	8	0.0003251	0.0003454	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-13	0.000312	0.000203	0.0167	No	8	0.0002166	0.00003854	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-14	0.03559	0.01738	0.0167	Yes	8	0.02649	0.00859	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01965	0.0156	0.0167	No	8	0.01763	0.001912	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01688	0.01287	0.0167	No	8	0.01488	0.00189	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.03371	0.01125	0.0167	No	8	0.02215	0.01169	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01735	0.0142	0.0167	No	8	0.01578	0.00149	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.02359	0.008406	0.0167	No	8	0.016	0.007165	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-21	0.00204	0.000203	0.0167	No	8	0.0004326	0.0006495	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-25	0.01307	0.007886	0.0167	No	8	0.01053	0.00253	0	None	x^2	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.004602	0.002574	0.0167	No	8	0.003287	0.001758	12.5	None	x^3	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-31	0.000624	0.000203	0.0167	No	8	0.0002556	0.0001488	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-32	0.000908	0.000203	0.0167	No	8	0.0002911	0.0002493	87.5	None	No	0.004	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-33	0.000203	0.000203	0.0167	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.007703	0.004832	0.0167	No	8	0.006268	0.001354	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003464	0.001329	0.0167	No	8	0.002397	0.001007	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003666	0.0006954	0.0167	No	8	0.002181	0.001498	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.01042	0.00494	0.0167	No	8	0.00768	0.002585	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.0206	0.01213	0.0167	No	8	0.01636	0.003998	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.43	0.8066	5	No	8	1.118	0.2939	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.12	0.558	5	No	8	0.9028	0.2509	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.7615	0.3757	5	No	8	0.5686	0.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.177	0.000207	5	No	8	0.4272	0.6228	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.8322	0.2713	5	No	8	0.5423	0.3117	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.497	0.7398	5	No	8	1.118	0.357	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	3.99	-0.365	5	No	8	0.8578	1.323	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.33	0.4297	5	No	8	0.8796	0.4245	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	1.978	0.8471	5	No	8	1.412	0.5333	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.236	0.8171	5	No	8	1.027	0.1976	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	0.9392	0.4051	5	No	8	0.6721	0.252	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.5065	0.005136	5	No	8	0.2558	0.2365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.9068	0.0475	5	No	8	0.4771	0.4053	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.298	0.6791	5	No	8	0.9886	0.292	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.6996	0.138	5	No	8	0.4188	0.2649	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	2.079	-0.03608	5	No	8	0.6141	1.138	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.435	0.5113	5	No	8	1.473	0.9075	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	1.89	1.063	5	No	8	1.477	0.3898	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.288	0.3581	5	No	8	0.8229	0.4385	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.116	0.5092	5	No	8	0.8043	0.3369	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.21	0.2226	5	No	8	0.7163	0.4657	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.676	0.5926	5	No	8	1.134	0.511	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1709	0.05784	4	No	8	0.1144	0.05334	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2827	0.2006	4	No	8	0.2416	0.03875	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1838	0.1042	4	No	8	0.144	0.03753	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2328	0.1717	4	No	8	0.2023	0.02886	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1412	0.07918	4	No	8	0.1102	0.02927	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.2733	0.1572	4	No	8	0.2153	0.05476	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1408	0.1035	4	No	8	0.1221	0.01761	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.3012	0.2383	4	No	8	0.2698	0.02972	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.6037	0.4458	4	No	8	0.5248	0.07444	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.197	0.1612	4	No	8	0.1791	0.01689	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1541	0.06746	4	No	8	0.1098	0.04348	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2221	0.1502	4	No	8	0.1861	0.03392	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.104	0.05	4	No	8	0.05675	0.01909	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-3	0.1716	0.08792	4	No	8	0.1289	0.04491	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.05	0.05	4	No	8	0.05	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.0518	0.04	4	No	8	0.04773	0.004808	62.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.1	0.05	4	No	8	0.0625	0.01909	62.5	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-5	0.2546	0.2016	4	No	8	0.2281	0.02501	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2423	0.1974	4	No	8	0.2201	0.02315	0	None	x^3	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1019	0.07938	4	No	8	0.09063	0.01061	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.162	0.109	4	No	8	0.118	0.01794	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.2087	0.1628	4	No	8	0.1858	0.02167	0	None	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.005	0.000109	0.015	No	8	0.004389	0.001729	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-2	0.005	0.000736	0.015	No	8	0.004467	0.001508	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-25	0.005	0.0000884	0.015	No	8	0.004386	0.001737	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.005	0.000121	0.015	No	8	0.00439	0.001725	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.005	0.0000784	0.015	No	8	0.004385	0.00174	87.5	None	No	0.004	NP (NDs)

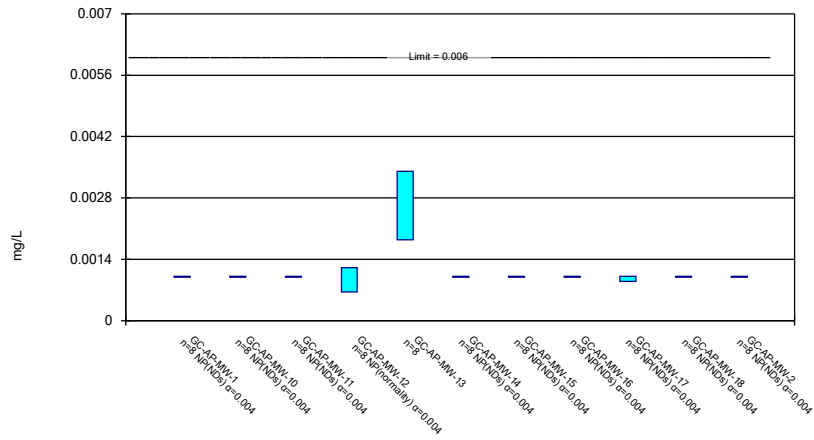
Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 5/20/2021, 5:27 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GC-AP-MW-1	0.01	0.01	0.04	No	8	0.01	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-10	0.155	0.104	0.04	Yes	8	0.1193	0.01591	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1273	0.08185	0.04	Yes	8	0.1046	0.02145	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1311	0.05136	0.04	Yes	8	0.09125	0.03764	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.3271	0.07565	0.04	Yes	8	0.2014	0.1186	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.9973	0.5717	0.04	Yes	8	0.7845	0.2008	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6209	0.5311	0.04	Yes	8	0.576	0.04236	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6425	0.5135	0.04	Yes	8	0.578	0.06089	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.742	0.525	0.04	Yes	8	0.6319	0.1118	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3931	0.3386	0.04	Yes	8	0.3659	0.02569	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.112	0.04593	0.04	Yes	8	0.07898	0.03118	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1374	0.1018	0.04	Yes	8	0.1196	0.01677	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.03345	0.01353	0.04	No	8	0.0233	0.01229	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.07076	0.02357	0.04	No	8	0.04716	0.02226	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.09929	0.03109	0.04	No	8	0.06519	0.03217	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-1	0.01	0.000117	0.1	No	8	0.008765	0.003494	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.011	0.00747	0.1	No	8	0.0084	0.001416	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-11	0.01725	0.00795	0.1	No	8	0.0126	0.004388	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.1168	0.07077	0.1	No	8	0.09378	0.02171	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.08967	0.01487	0.1	No	8	0.05059	0.04516	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01769	0.01061	0.1	No	8	0.01415	0.003338	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.01	0.000113	0.1	No	8	0.008764	0.003496	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-17	0.08118	0.04154	0.1	No	8	0.06136	0.0187	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.01	0.000362	0.1	No	8	0.008795	0.003408	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-2	0.01	0.0000804	0.1	No	8	0.00876	0.003507	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-21	0.0682	0.0403	0.1	No	8	0.05349	0.01778	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-25	0.01	0.0000843	0.1	No	8	0.008761	0.003506	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.01	0.0000741	0.1	No	8	0.008759	0.003509	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.00373	0.00264	0.1	No	8	0.003185	0.0005145	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.01	0.0024	0.1	No	8	0.00905	0.002687	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-7	0.01	0.000156	0.1	No	8	0.008769	0.00348	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-8	0.01	0.0000812	0.1	No	8	0.00876	0.003507	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.01	0.00163	0.05	No	8	0.007961	0.003777	75	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-13	0.01746	0.003259	0.05	No	8	0.01141	0.006572	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GC-AP-MW-3	0.01	0.000959	0.05	No	8	0.00887	0.003196	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.000203	0.000107	0.002	No	8	0.000191	0.00003394	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-11	0.000203	0.000087	0.002	No	8	0.0001885	0.00004101	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-13	0.001284	0.0001522	0.002	No	8	0.0006874	0.0006628	12.5	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.000203	0.0000878	0.002	No	8	0.0001886	0.00004073	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.0003924	0.0003043	0.002	No	8	0.0003484	0.00004157	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-17	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.000203	0.000101	0.002	No	8	0.0001903	0.00003606	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-21	0.000203	0.000106	0.002	No	8	0.0001909	0.00003429	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-3	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-7	0.000203	0.000203	0.002	No	8	0.000203	0	100	None	No	0.004	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

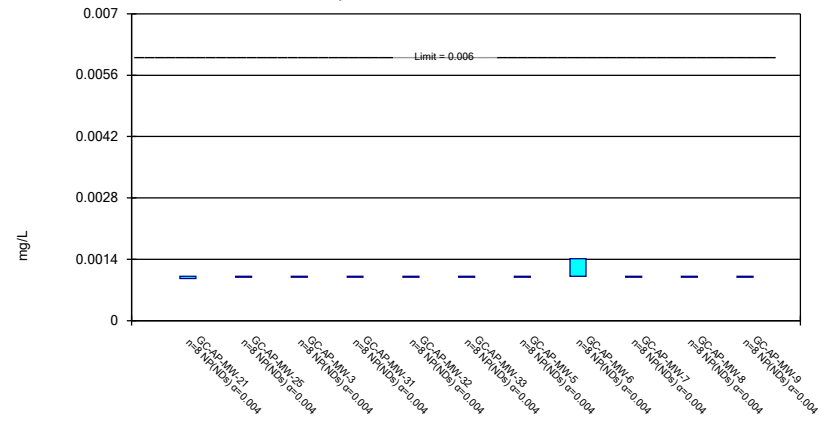
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

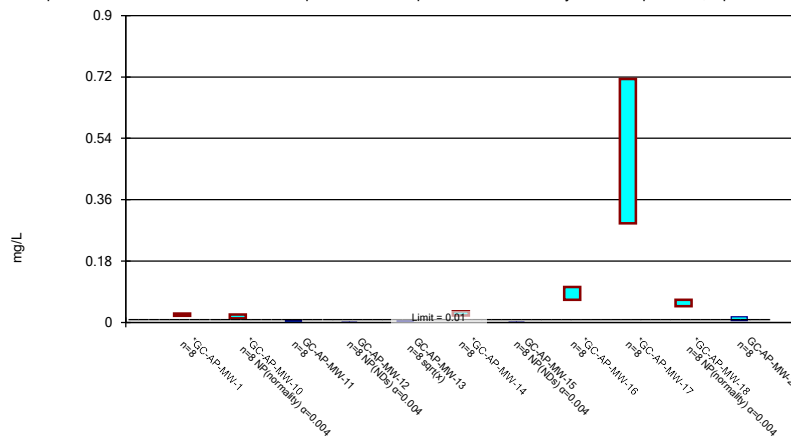
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

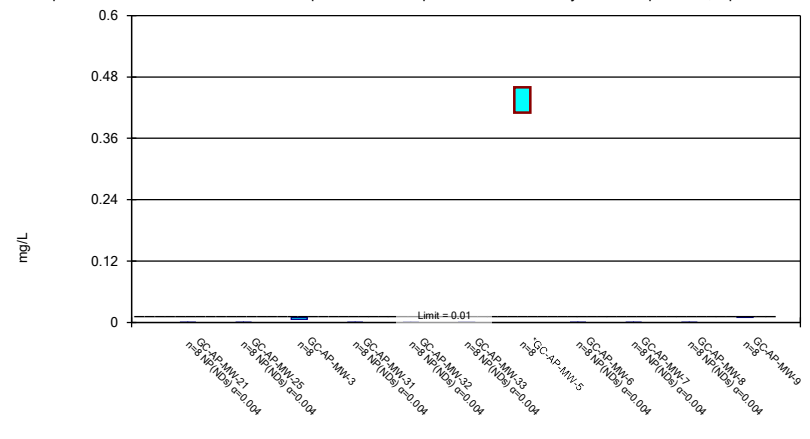
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

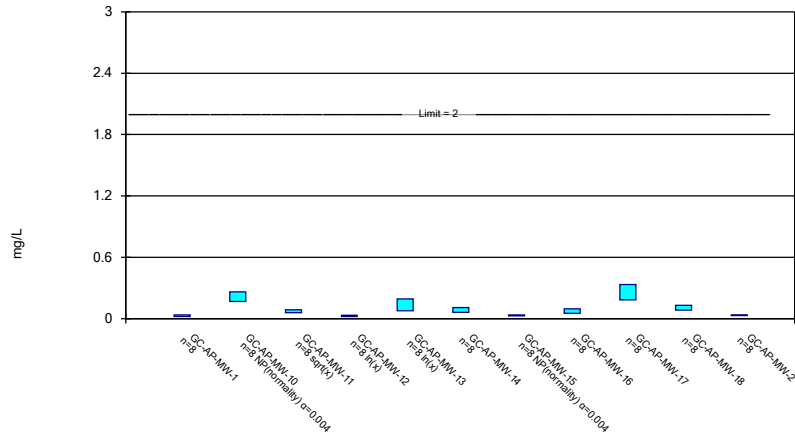
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

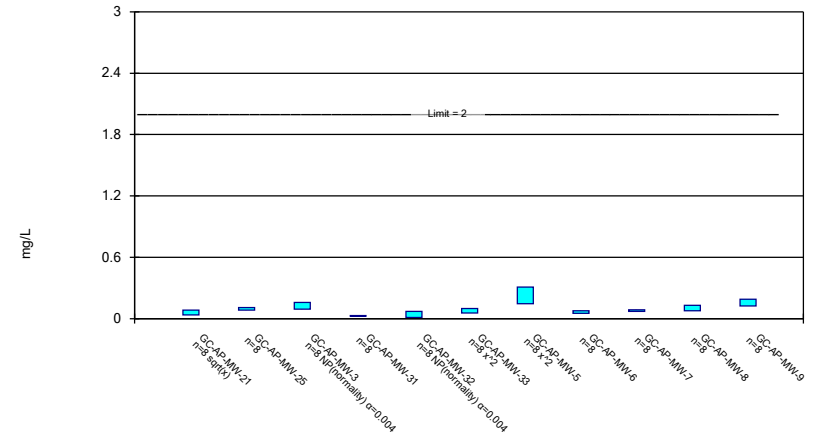
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

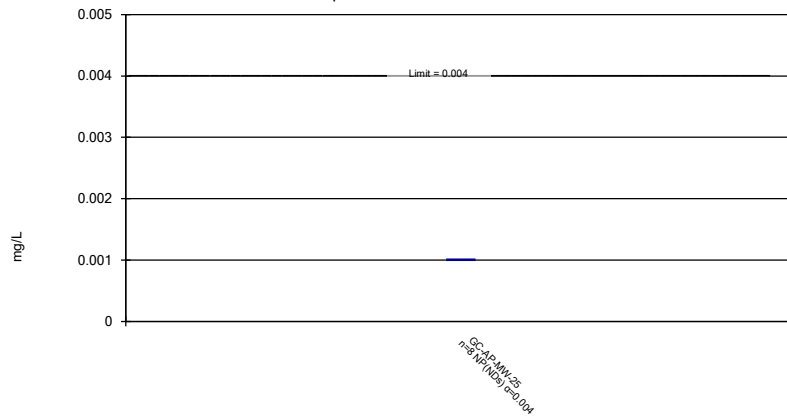
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

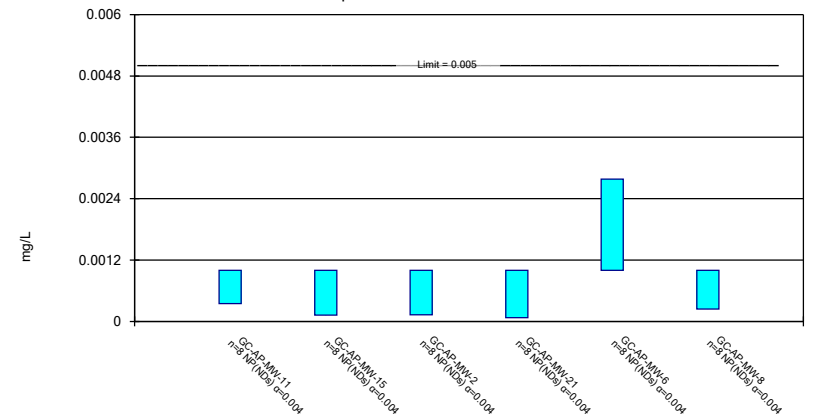
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

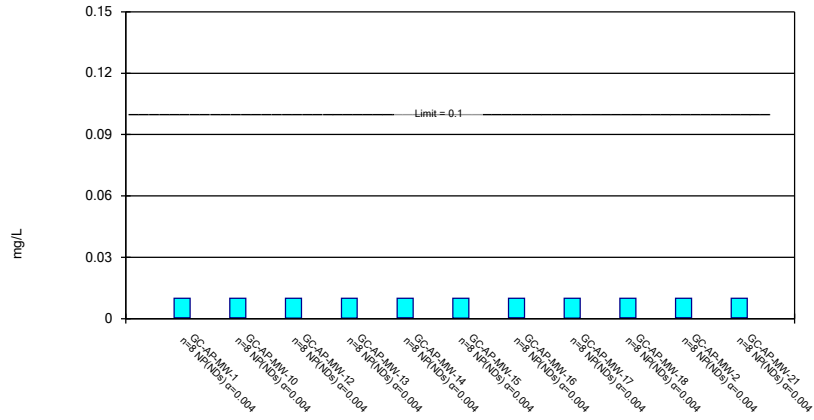
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

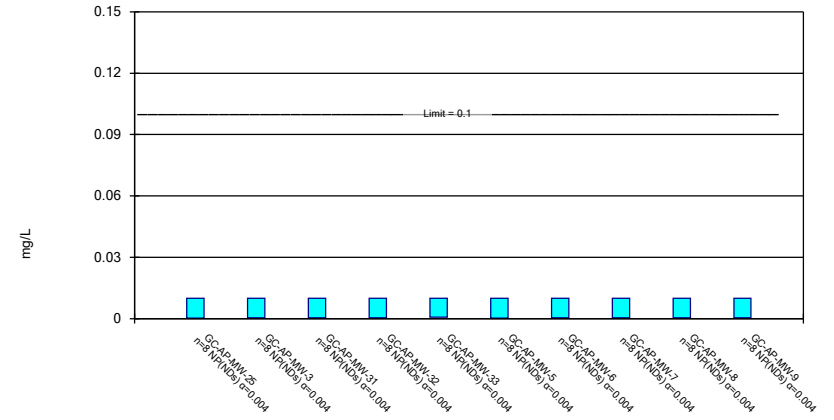
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

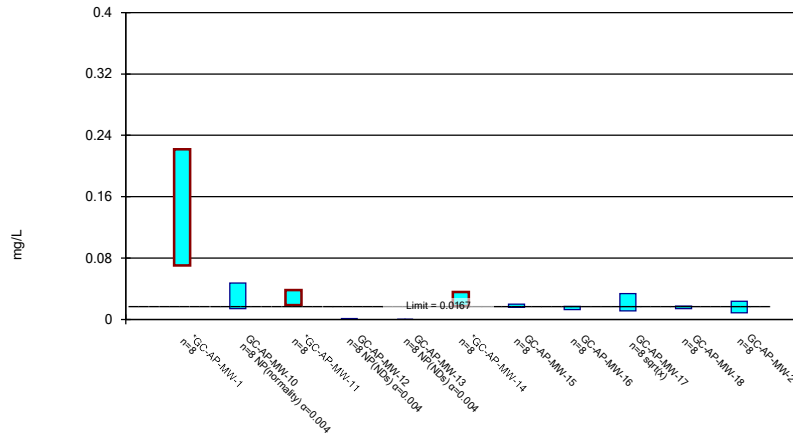
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

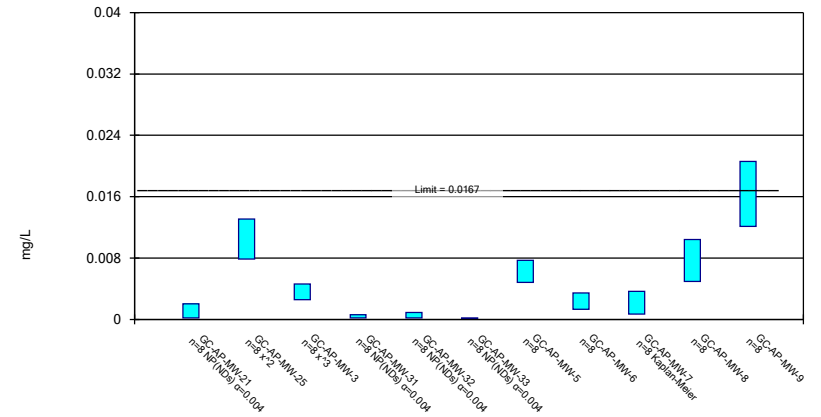
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

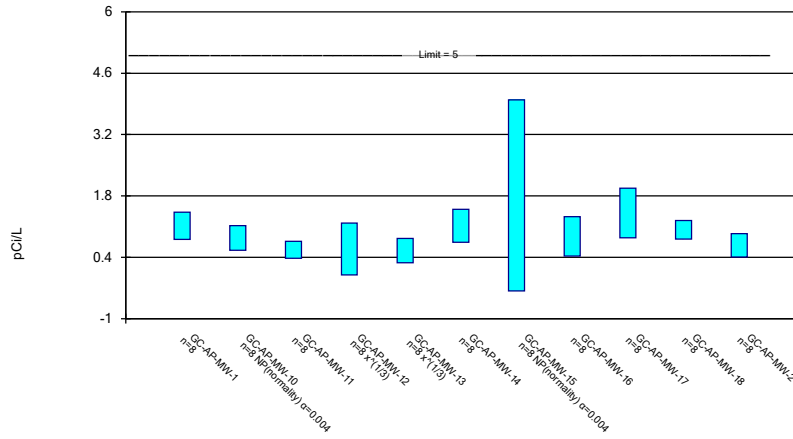
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

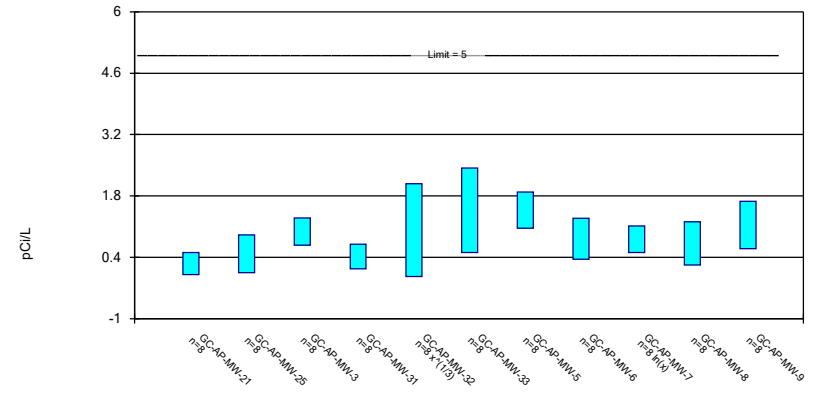
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

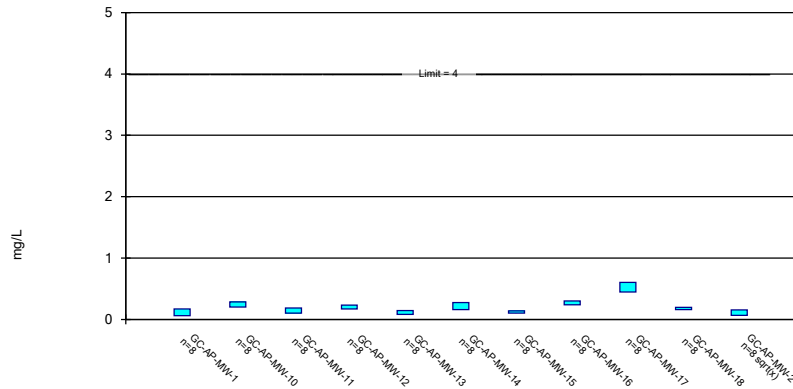
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

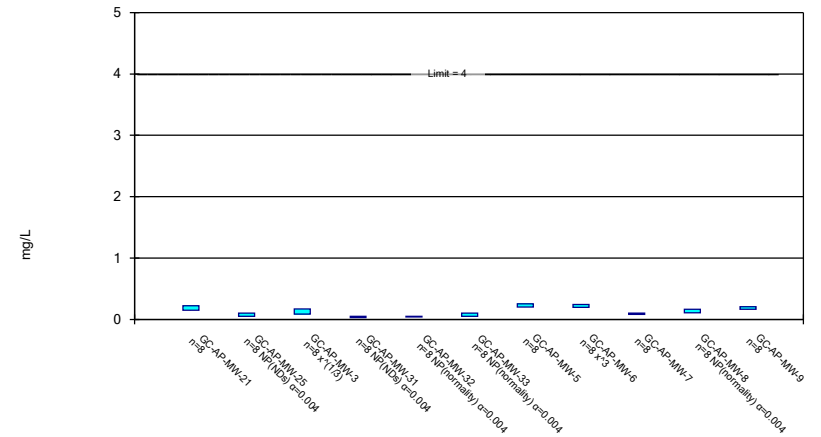
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/20/2021 5:24 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

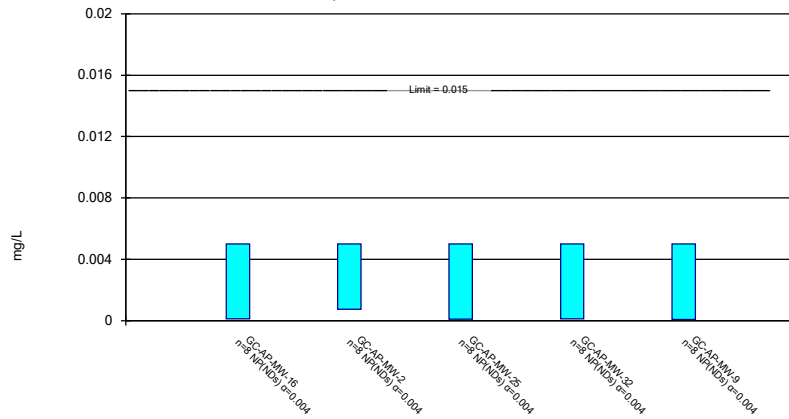
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

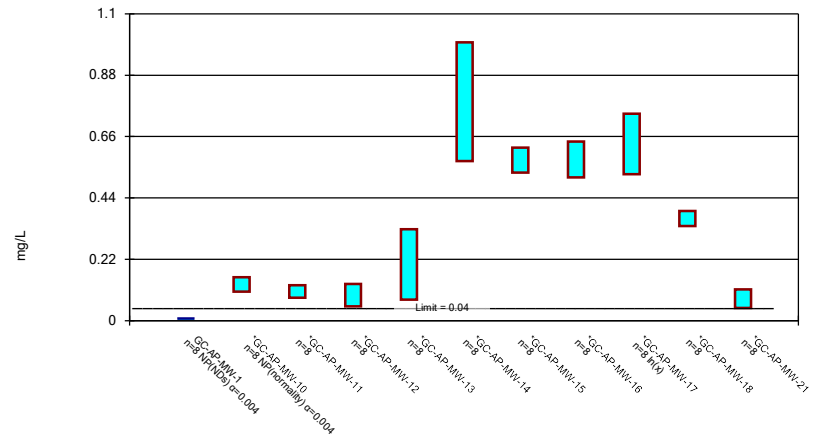
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

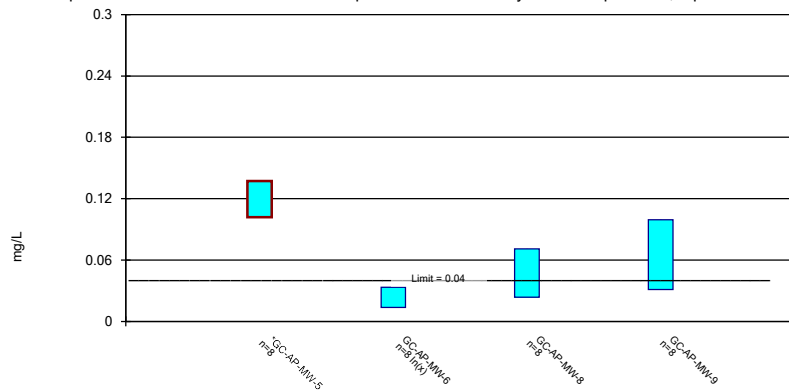
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

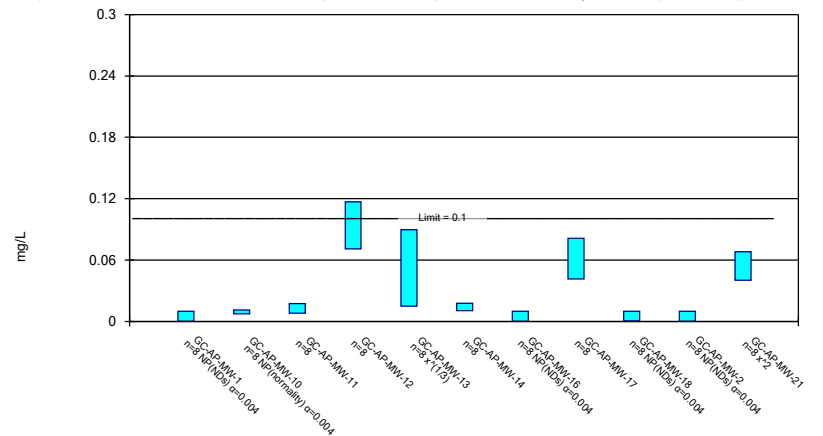
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

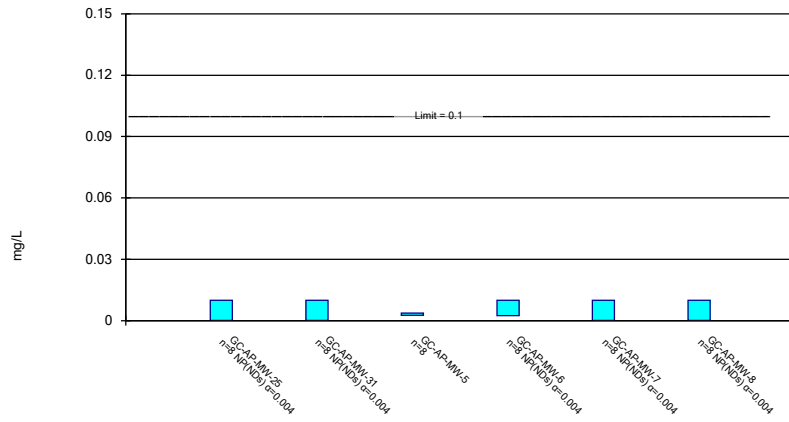
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

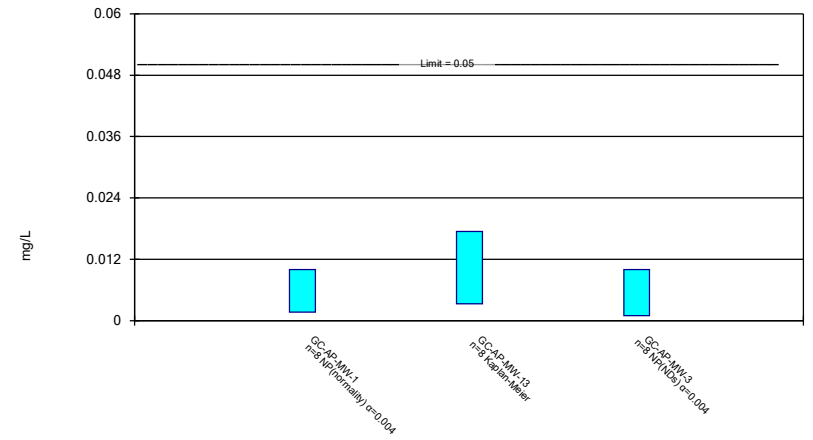
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

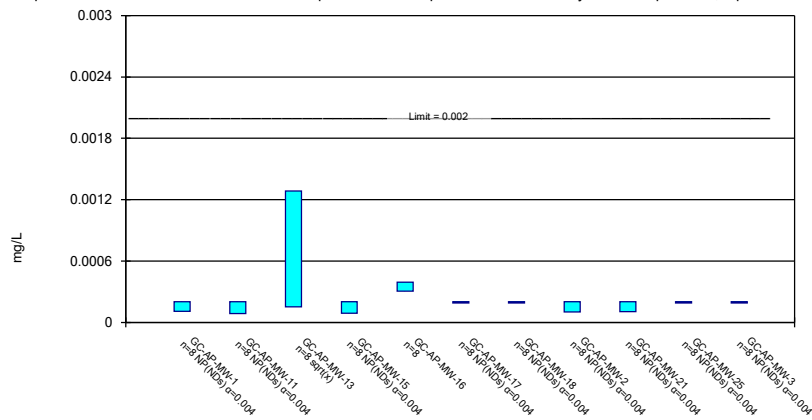
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

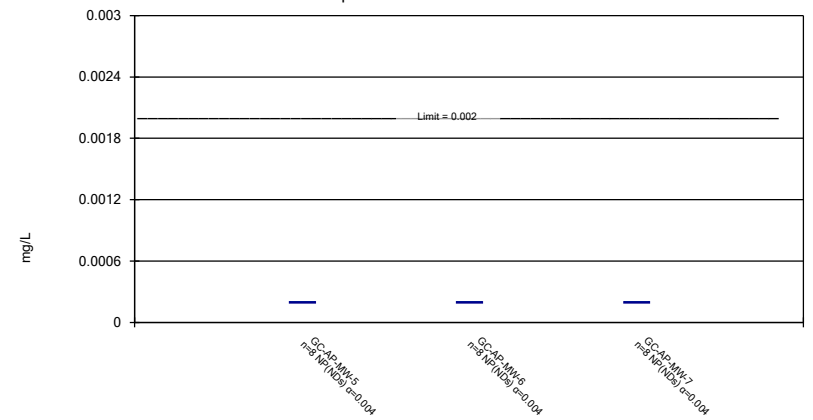
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

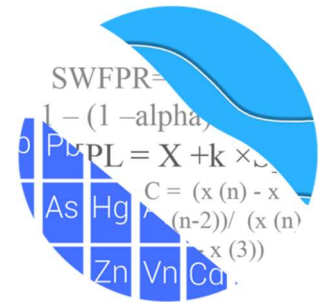
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 5/20/2021 5:25 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

GROUNDWATER STATS CONSULTING



November 22, 2021

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Greene County Ash Pond
2nd Semi-Annual Analysis – August 2021

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 August 2021 2nd semi-annual sample event for Alabama Power Company's Plant Greene County Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) 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 CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-26, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30
- **Downgradient wells:** GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33

- **Delineation wells:** GC-AP-PZ-4, GC-AP-MW-34HA, GC-AP-MW-35H, GC-AP-MW-36H, GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-42H, GC-AP-MW-43H, GC-AP-MW-44H, GC-AP-MW-45H, GC-AP-MW-46HO, GC-AP-MW-47HO, GC-AP-MW-48H, GC-AP-MW-49H, GC-AP-MW-50HO, GC-AP-MW-52HO, GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-55HO, GC-AP-MW-57H, GC-AP-MW-59HO, GC-AP-MW-60HO, GC-AP-MW-61HO, GC-AP-MW-62HO, GC-AP-MW-63HO, and GC-AP-MW-64HO

Note that delineation wells do not require statistics; therefore, they were plotted only on time series and box plots. 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 list 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 Samples: 119
- # Constituents: 7
- # Downgradient wells: 22

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 annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends 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 as appropriate.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summary – Conducted in September 2019

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate trends, as well as for outliers over the entire record. Interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Prior to performing prediction limits, proposed background data through May 2019 were reviewed to identify any newly suspected outliers at all upgradient wells for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Both Tukey's Test and visual screening are used to identify potential outliers. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. Potential outliers that are identified by Tukey's test but are not greatly different from the rest of the data are not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of flagged values follows this letter.

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, deselection of the earlier portion of data may be required prior to construction of interwell statistical

limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Several statistically significant trends were noted in upgradient wells and may be seen on the Trend Test Summary Table that accompanied the September 2019 background update. These trends required no adjustments, however, because the period of record is short and/or the magnitudes of the trends were low relative to the average concentrations in background.

One exception to this was upgradient well GC-AP-MW-24 which had significantly increasing trending data for calcium, sulfate, and TDS. However, the current reported observations for calcium and TDS were similar to those observed in upgradient well GC-AP-MW-23; therefore, no adjustments were made to this record for those constituents. Additionally, no adjustments were made for sulfate since the nonparametric prediction limit is determined by the latter part of the record and would not be affected if the earlier data were truncated. However, all of these trends will be monitored in subsequent analyses, and the background records may be adjusted in the future.

Evaluation of Appendix III Parameters – August 2021

Outlier Analysis

Background (upgradient) well data for Appendix III constituents were re-assessed for potential outliers during this analysis. No new values were flagged. Values in background which have been previously flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

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 August 2021 to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When 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. When no resamples are collected, any initial exceedances are considered SSIs. A summary of the prediction limits results may be found in the Prediction Limit Summary tables following this letter. Several exceedances for interwell prediction limits were identified.

Trend Tests

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of natural variability in groundwater which may be unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-25
- Calcium: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-11, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17 and GC-AP-MW-24 (upgradient)
- Chloride: GC-AP-MW-9 and GC-AP-MW-18
- Fluoride: GC-AP-MW-3, GC-AP-MW-8, GC-AP-MW-14, GC-AP-MW-16, and GC-AP-MW-18
- pH: GC-AP-MW-18
- Sulfate: GC-AP-MW-24, GC-AP-MW-28 (both upgradient), GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-25, and GC-AP-MW-31
- TDS: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-24 (upgradient), and GC-AP-MW-25

Decreasing:

- Boron: GC-AP-MW-6 and GC-AP-MW-18
- Calcium: GC-AP-MW-23, GC-AP-MW-28, and GC-AP-MW-29 (all upgradient), GC-AP-MW-31, and GC-AP-MW-1
- Chloride: GC-AP-MW-5 and GC-AP-MW-23 (upgradient)

- pH: GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, GC-AP-MW-30 (all upgradient), GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, and GC-AP-MW-31
- Sulfate: GC-AP-MW-23, GC-AP-MW-26 (both upgradient), GC-AP-MW-15, GC-AP-MW-16, and GC-AP-MW-21
- TDS: GC-AP-MW-23, GC-AP-MW-28, GC-AP-MW-29 (all upgradient), and GC-AP-MW-31

Evaluation of Appendix IV Parameters – August 2021

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 this 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. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed (Figure F). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

These background limits are then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two is used as the GWPS (Figure G) in the confidence interval comparisons described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through August 2021 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 with 100% non-detects in the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (Figure H). Exceedances were noted for the following well/constituent pairs:

- Arsenic: GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18
- Cobalt: GC-AP-MW-1, GC-AP-MW-11, and GC-AP-MW-14
- Lithium: GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, and GC-AP-MW-21

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Greene County Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Kristina Rayner
Groundwater Statistician



Andrew Collins
Project Manager

100% Non-Detects - Downgradient Wells

Analysis Run 11/18/2021 6:46 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Beryllium (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-29, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Cadmium (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-7, GC-AP-MW-9

Lead (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-29, GC-AP-MW-31, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8

Lithium (mg/L)

GC-AP-MW-2, GC-AP-MW-25, GC-AP-MW-29, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-7

Mercury (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-29, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Molybdenum (mg/L)

GC-AP-MW-15, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-9

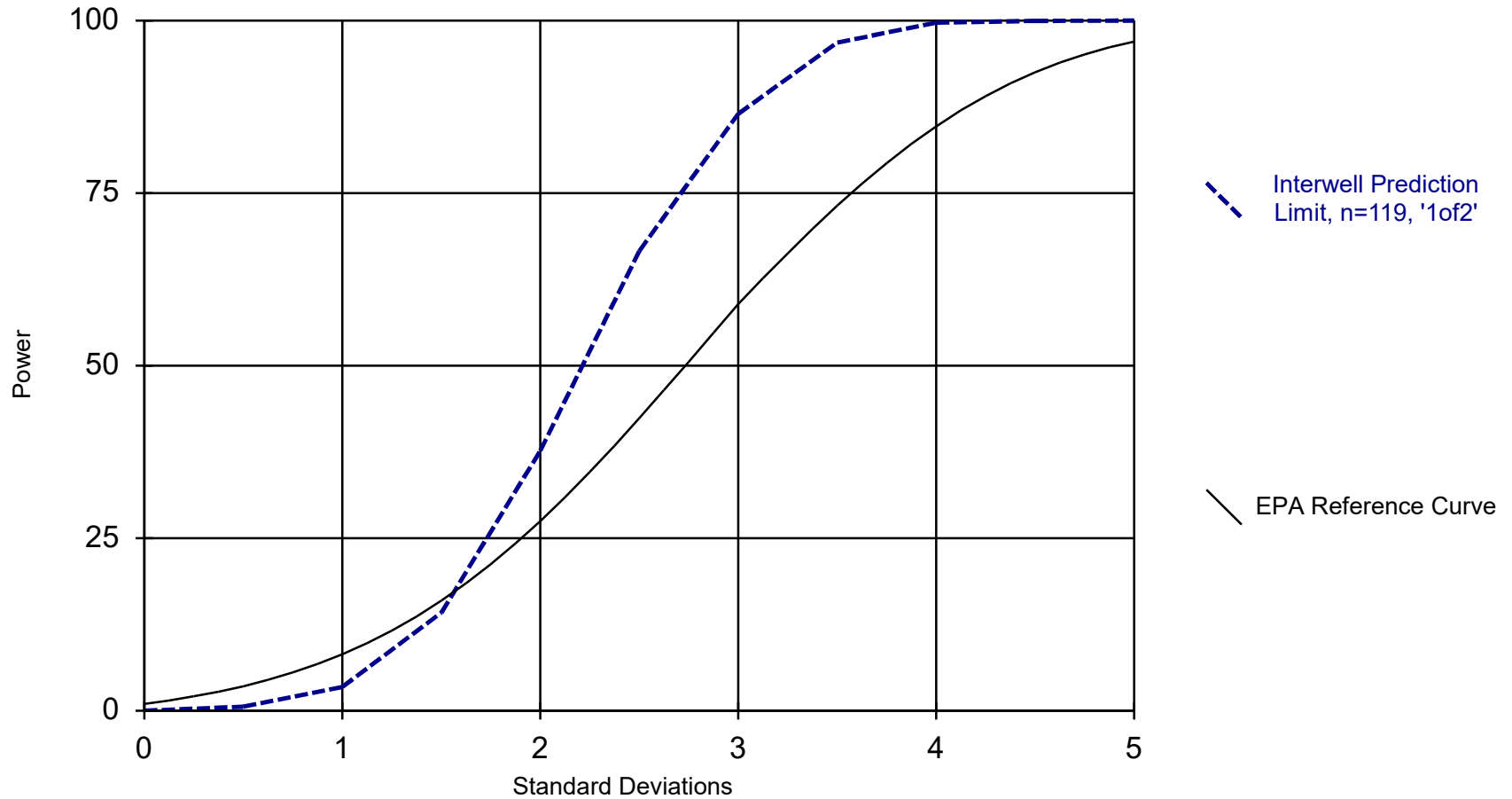
Selenium (mg/L)

GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-29, GC-AP-MW-31, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Thallium (mg/L)

GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-29, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-8, GC-AP-MW-9

Power Curve



Kappa = 2.133, based on 22 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Interwell Prediction Limit - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 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)	GC-AP-MW-1	0.1015	n/a	8/17/2021	0.281	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	8/24/2021	1.93	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	8/25/2021	0.601	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	8/25/2021	0.393	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	8/25/2021	0.438	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	8/25/2021	1.33	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	8/25/2021	0.83	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	8/17/2021	1.98	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	8/17/2021	2.18	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	8/17/2021	1.45	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	8/17/2021	0.131	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	8/25/2021	0.288	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	8/24/2021	0.115	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	8/23/2021	0.628	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	8/24/2021	1.36	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	8/24/2021	0.216	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	8/24/2021	1.23	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	8/24/2021	1.14	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	8/17/2021	103	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	8/24/2021	83.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.8	n/a	8/25/2021	57.6	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	8/25/2021	45.2	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	8/25/2021	74.2	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	8/25/2021	134	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	8/25/2021	74.8	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	8/17/2021	103	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	8/17/2021	78.3	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	8/17/2021	77.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	8/17/2021	143	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	8/17/2021	55.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	8/23/2021	87.6	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	8/24/2021	129	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	8/24/2021	123	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	8/24/2021	86.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	8/24/2021	93.1	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.863	n/a	8/17/2021	34.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.863	n/a	8/24/2021	22.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.863	n/a	8/25/2021	14.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.863	n/a	8/25/2021	7.43	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.863	n/a	8/25/2021	6.37	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.863	n/a	8/25/2021	11.5	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.863	n/a	8/25/2021	10.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.863	n/a	8/17/2021	10.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.863	n/a	8/17/2021	14.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.863	n/a	8/17/2021	25.1	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.863	n/a	8/17/2021	12.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.863	n/a	8/25/2021	10.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.863	n/a	8/24/2021	25.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.863	n/a	8/17/2021	21.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.863	n/a	8/23/2021	6.37	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limit - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Chloride (mg/L)	GC-AP-MW-5	5.863	n/a	8/23/2021	11.6	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.863	n/a	8/24/2021	56.6	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.863	n/a	8/24/2021	91.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.863	n/a	8/24/2021	90.8	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.863	n/a	8/24/2021	90.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	8/24/2021	0.277	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	8/25/2021	0.188	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	8/25/2021	0.239	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	8/25/2021	0.167	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	8/17/2021	0.286	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	8/17/2021	0.494	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	8/17/2021	0.212	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	8/17/2021	0.184	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	8/23/2021	0.322	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	8/24/2021	0.161	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	8/24/2021	0.164	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	8/25/2021	7.04	Yes	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	8/17/2021	745	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	8/25/2021	126	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	8/25/2021	118	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	8/25/2021	181	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	8/25/2021	346	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	8/25/2021	153	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	8/17/2021	502	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	8/23/2021	155	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	8/24/2021	210	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	8/24/2021	234	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	8/24/2021	139	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	8/17/2021	1340	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	8/24/2021	423	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	8/25/2021	358	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	8/25/2021	263	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	8/25/2021	359	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	8/25/2021	774	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	8/25/2021	407	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	8/17/2021	490	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	8/17/2021	506	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	8/17/2021	397	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	8/17/2021	808	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	8/25/2021	207	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	8/24/2021	224	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	8/17/2021	297	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	8/23/2021	481	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	179	n/a	8/24/2021	792	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	8/24/2021	930	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	8/24/2021	690	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	8/24/2021	624	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 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)	GC-AP-MW-1	0.1015	n/a	8/17/2021	0.281	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	8/24/2021	1.93	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	8/25/2021	0.601	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	8/25/2021	0.393	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	8/25/2021	0.438	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	8/25/2021	1.33	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	8/25/2021	0.83	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	8/17/2021	1.98	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	8/17/2021	2.18	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	8/17/2021	1.45	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	8/17/2021	0.131	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	8/25/2021	0.288	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	8/24/2021	0.115	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	8/17/2021	0.0518J	No	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	8/23/2021	0.1015ND	No	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	8/23/2021	0.1015ND	No	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	8/23/2021	0.1015ND	No	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	8/23/2021	0.628	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	8/24/2021	1.36	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	8/24/2021	0.216	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	8/24/2021	1.23	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	8/24/2021	1.14	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	8/17/2021	103	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	8/24/2021	83.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.8	n/a	8/25/2021	57.6	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	8/25/2021	45.2	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	8/25/2021	74.2	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	8/25/2021	134	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	8/25/2021	74.8	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	8/17/2021	103	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	8/17/2021	78.3	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	8/17/2021	77.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	8/17/2021	143	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	8/25/2021	31	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.8	n/a	8/24/2021	25.9	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	8/17/2021	55.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	42.8	n/a	8/23/2021	7.11	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	42.8	n/a	8/23/2021	2.16	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	42.8	n/a	8/23/2021	9.48	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	8/23/2021	87.6	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	8/24/2021	129	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	8/24/2021	123	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	8/24/2021	86.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	8/24/2021	93.1	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.863	n/a	8/17/2021	34.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.863	n/a	8/24/2021	22.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.863	n/a	8/25/2021	14.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.863	n/a	8/25/2021	7.43	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.863	n/a	8/25/2021	6.37	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.863	n/a	8/25/2021	11.5	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limit - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Chloride (mg/L)	GC-AP-MW-15	5.863	n/a	8/25/2021	10.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.863	n/a	8/17/2021	10.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.863	n/a	8/17/2021	14.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.863	n/a	8/17/2021	25.1	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.863	n/a	8/17/2021	12.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.863	n/a	8/25/2021	10.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.863	n/a	8/24/2021	25.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.863	n/a	8/17/2021	21.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.863	n/a	8/23/2021	6.37	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.863	n/a	8/23/2021	5.61	No	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.863	n/a	8/23/2021	4.33	No	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.863	n/a	8/23/2021	11.6	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.863	n/a	8/24/2021	56.6	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.863	n/a	8/24/2021	91.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.863	n/a	8/24/2021	90.8	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.863	n/a	8/24/2021	90.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	8/17/2021	0.158	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	8/24/2021	0.277	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	8/25/2021	0.135	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	8/25/2021	0.188	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	8/25/2021	0.111	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	8/25/2021	0.239	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	8/25/2021	0.167	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	8/17/2021	0.286	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	8/17/2021	0.494	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	8/17/2021	0.212	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	8/17/2021	0.0974J	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	8/25/2021	0.117	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	8/24/2021	0.0914J	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	8/17/2021	0.184	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	8/23/2021	0.1ND	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	8/23/2021	0.1ND	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	8/23/2021	0.1ND	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	8/23/2021	0.322	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	8/24/2021	0.161	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	8/24/2021	0.1	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	8/24/2021	0.141	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	8/24/2021	0.164	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.8	3.78	8/17/2021	5.49	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.78	8/24/2021	6.04	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.78	8/25/2021	6.38	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	8/25/2021	7.04	Yes	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-13	6.8	3.78	8/25/2021	6.66	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.78	8/25/2021	6.21	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.78	8/25/2021	6.12	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.78	8/17/2021	6.33	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.78	8/17/2021	6.57	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.78	8/17/2021	6.38	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.78	8/17/2021	5.99	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.78	8/25/2021	6.51	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
pH (SU)	GC-AP-MW-25	6.8	3.78	8/24/2021	5.25	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.78	8/17/2021	6.13	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.78	8/23/2021	5.67	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.78	8/23/2021	4.17	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.78	8/23/2021	6.04	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.78	8/23/2021	6.5	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.78	8/24/2021	6.22	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.78	8/24/2021	6.4	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.78	8/24/2021	6.16	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.78	8/24/2021	6.08	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	8/17/2021	745	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	8/24/2021	71.6	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	8/25/2021	126	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	8/25/2021	118	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	8/25/2021	181	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	8/25/2021	346	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	8/25/2021	153	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	8/17/2021	46.6	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	8/17/2021	32.8	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	8/17/2021	12.2	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	8/17/2021	502	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	8/25/2021	76.1	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	8/24/2021	66.6	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	8/17/2021	12	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	8/23/2021	4	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	8/23/2021	9.18	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	8/23/2021	2.44	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	8/23/2021	155	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	8/24/2021	210	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	8/24/2021	234	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	8/24/2021	71.4	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	8/24/2021	139	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	8/17/2021	1340	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	8/24/2021	423	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	8/25/2021	358	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	8/25/2021	263	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	8/25/2021	359	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	8/25/2021	774	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	8/25/2021	407	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	8/17/2021	490	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	8/17/2021	506	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	8/17/2021	397	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	8/17/2021	808	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	8/25/2021	207	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	8/24/2021	224	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	8/17/2021	297	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	179	n/a	8/23/2021	49.3	No	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	179	n/a	8/23/2021	64.7	No	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	179	n/a	8/23/2021	48.7	No	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	8/23/2021	481	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
TDS (mg/L)	GC-AP-MW-6	179	n/a	8/24/2021	792	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232 NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	8/24/2021	930	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232 NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	8/24/2021	690	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232 NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	8/24/2021	624	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232 NP Inter (normality) 1 of 2

Trend Test Summary - Prediction Limit Exceedances - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.02081	71	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2041	87	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08039	107	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1127	73	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08103	65	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05803	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.005272	84	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03503	77	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.08403	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.209	112	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-17.24	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11	4.674	117	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	6.808	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	19.03	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	4.046	85	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.568	135	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.432	101	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	12.36	82	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.422	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	7.167	137	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.202	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.2296	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-31	-5.985	-137	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.433	123	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	21.18	102	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.5946	76	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.06253	-72	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-0.9813	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	4.357	121	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02762	91	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01593	90	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.008196	73	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.01511	91	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-8	0.008132	99	68	Yes	18	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-18	0.02099	91	87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-2	-0.03442	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-21	-0.1056	-111	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.08781	-136	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05649	-92	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-25	-0.02903	-96	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1145	-122	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1998	-123	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.5724	-169	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.1632	-156	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-31	-0.2964	-215	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	12.49	119	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	11.03	75	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	32.47	73	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-9.591	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-16	-9.018	-76	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-21	-7.989	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.495	-114	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	18.74	104	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-25	8.676	131	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-1.883	-69	-68	Yes	18	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - Significant Results Page 2

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 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>
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.621	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-3	1.821	96	68	Yes	18	38.89	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-31	0.3994	110	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	31.37	123	68	Yes	18	5.556	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	13.6	96	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	21.85	113	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	29.07	139	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	34.4	84	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	46.99	77	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-7.672	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	29.12	108	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	15.53	103	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.803	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-7.696	-94	-68	Yes	18	55.56	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-31	-11.44	-102	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	37.62	113	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	84.19	130	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.02081	71	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	0.03079	23	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.04768	-50	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	0.01284	4	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.03747	22	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2041	87	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08039	107	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1127	73	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08103	65	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05803	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.003153	38	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	-0.007483	-12	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	31	63	No	17	82.35	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.005272	84	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	6	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	19	63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	6	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	10	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-3	0.003336	53	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-31	0	6	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03503	77	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.08403	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-7	0.04246	42	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.06666	45	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.209	112	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-17.24	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	2.375	57	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11	4.674	117	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	2.257	53	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	6.808	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	19.03	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	4.046	85	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.568	135	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.432	101	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-1.983	-34	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	12.36	82	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21	0.02495	1	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.422	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	7.167	137	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-25	0.3412	41	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.4131	-51	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.01359	7	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.202	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.2296	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	-3.136	-25	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1035	-55	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-31	-5.985	-137	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.433	123	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	3.914	52	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	0.8153	6	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.404	43	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	21.18	102	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-1	-0.9707	-22	-68	No	18	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - All Results Page 2

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-10	0.3117	23	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.5547	-36	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.6098	-36	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	-0.7281	-30	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.7811	-62	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-15	0	-5	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.4435	-38	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-0.8258	-36	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.5946	76	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.2281	-20	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	0.2131	11	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.06253	-72	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.1493	17	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-1.023	-59	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.06722	-20	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.1165	55	68	No	18	5.556	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.07889	-53	-68	No	18	11.11	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.2872	-64	-68	No	18	11.11	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	-0.1304	-27	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.3834	50	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31	0.04384	38	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-0.9813	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	1.846	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	5.463	55	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	0.3827	2	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	4.357	121	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-1	0.01675	53	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.004011	17	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-11	0.01011	37	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.007821	47	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-13	-0.01152	-55	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02762	91	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-15	0.007359	55	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01593	90	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03042	65	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.008196	73	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-2	0.002309	17	68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-21	-0.004472	-22	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.001166	19	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	53	68	No	18	61.11	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-25	0.00132	64	68	No	18	61.11	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	0	-7	-48	No	14	42.86	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	16	63	No	17	94.12	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	9	63	No	17	88.24	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	31	68	No	18	88.89	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.01511	91	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	17	68	No	18	94.44	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-31	0	52	68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0.003519	29	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.004591	33	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-7	0.004647	64	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-8	0.008132	99	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-9	0.003148	25	68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-1	-0.05203	-80	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-10	-0.02949	-40	-81	No	20	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - All Results Page 3

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (SU)	GC-AP-MW-11	0.05718	48	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-12	0.01338	44	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-13	0.0416	34	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-14	-0.0186	-32	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-15	-0.01006	-48	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-16	0.01897	66	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-17	0.04252	67	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-18	0.02099	91	87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-2	-0.03442	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-21	-0.1056	-111	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.08781	-136	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05649	-92	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-25	-0.02903	-96	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.1266	-85	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1145	-122	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1998	-123	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.5724	-169	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-3	-0.01997	-32	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.1632	-156	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-31	-0.2964	-215	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-5	-0.0211	-50	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-6	0.004905	16	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-7	-0.01606	-75	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-8	0	-2	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-9	-0.04491	-48	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	24.86	61	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	12.49	119	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	11.03	75	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-12	-0.2485	-3	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	9.79	34	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	32.47	73	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-9.591	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-16	-9.018	-76	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-17	-5.543	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-18	-7.17	-57	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	37.03	63	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-21	-7.989	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.495	-114	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	18.74	104	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-25	8.676	131	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-1.883	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.3369	64	68	No	18	27.78	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.621	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	10	68	No	18	55.56	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-3	1.821	96	68	Yes	18	38.89	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	8	68	No	18	83.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-31	0.3994	110	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	31.37	123	68	Yes	18	5.556	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	9.524	45	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	4.816	12	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-8	-1.087	-8	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	17.94	62	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	31.17	36	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	13.6	96	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	21.85	113	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - All Results Page 4

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	GC-AP-MW-12	8.513	31	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	18.54	50	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	88.77	68	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	4.632	22	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	29.07	139	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	34.4	84	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-13.62	-45	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	46.99	77	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-4.584	-23	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-7.672	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	29.12	108	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	15.53	103	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-3.865	-45	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.5112	30	68	No	18	27.78	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.803	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-7.696	-94	-68	Yes	18	55.56	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-4.673	-42	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	0.8435	38	68	No	18	27.78	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-31	-11.44	-102	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	37.62	113	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	24.46	50	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	11.34	26	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	4.354	11	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	84.19	130	68	Yes	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:28 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.00137	119	n/a	n/a	91.6	n/a	n/a	0.002234	NP Inter(NDs)
Arsenic (mg/L)	0.0044	119	n/a	n/a	83.19	n/a	n/a	0.002234	NP Inter(NDs)
Barium (mg/L)	0.347	119	n/a	n/a	0	n/a	n/a	0.002234	NP Inter(normality)
Beryllium (mg/L)	0.00226	119	n/a	n/a	86.55	n/a	n/a	0.002234	NP Inter(NDs)
Cadmium (mg/L)	0.000912	119	n/a	n/a	74.79	n/a	n/a	0.002234	NP Inter(normality)
Chromium (mg/L)	0.01	119	n/a	n/a	88.24	n/a	n/a	0.002234	NP Inter(NDs)
Cobalt (mg/L)	0.0167	119	n/a	n/a	57.98	n/a	n/a	0.002234	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	3.88	119	n/a	n/a	3.361	n/a	n/a	0.002234	NP Inter(normality)
Fluoride (mg/L)	0.159	120	n/a	n/a	67.5	n/a	n/a	0.002122	NP Inter(normality)
Lead (mg/L)	0.0002	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)
Lithium (mg/L)	0.02	119	n/a	n/a	100	n/a	n/a	0.002234	NP Inter(NDs)
Mercury (mg/L)	0.0005	119	n/a	n/a	100	n/a	n/a	0.002234	NP Inter(NDs)
Molybdenum (mg/L)	0.00308	119	n/a	n/a	97.48	n/a	n/a	0.002234	NP Inter(NDs)
Selenium (mg/L)	0.0072	119	n/a	n/a	89.92	n/a	n/a	0.002234	NP Inter(NDs)
Thallium (mg/L)	0.00039	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)

GREENE COUNTY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00137	0.006
Arsenic	mg/L	0.0044	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.00226	0.004
Cadmium	mg/L	0.000912	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	3.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00308	0.1
Selenium	mg/L	0.0072	0.05
Thallium	mg/L	0.00039	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.

Appendix IV Confidence Intervals - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.0257	0.01943	0.01	Yes	8	0.02256	0.002958	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0233	0.0121	0.01	Yes	8	0.01441	0.00374	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-14	0.03248	0.01975	0.01	Yes	8	0.02611	0.006006	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.1032	0.0651	0.01	Yes	8	0.08413	0.01795	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.8211	0.2849	0.01	Yes	8	0.553	0.2529	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.0661	0.0477	0.01	Yes	8	0.05153	0.006034	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-5	0.4632	0.3926	0.01	Yes	8	0.4279	0.0333	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2419	0.09402	0.0167	Yes	8	0.168	0.06975	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.04089	0.01771	0.0167	Yes	8	0.0293	0.01094	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.03978	0.02009	0.0167	Yes	8	0.02994	0.00929	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.198	0.104	0.04	Yes	8	0.1301	0.03153	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1323	0.08237	0.04	Yes	8	0.1073	0.02355	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1366	0.05552	0.04	Yes	8	0.09605	0.03824	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4092	0.1002	0.04	Yes	8	0.2547	0.1457	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	1.038	0.6368	0.04	Yes	8	0.8374	0.1892	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6303	0.5344	0.04	Yes	8	0.5824	0.04524	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6582	0.5236	0.04	Yes	8	0.5909	0.06351	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.864	0.531	0.04	Yes	8	0.6138	0.1052	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-18	0.3933	0.3364	0.04	Yes	8	0.3649	0.02684	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1145	0.05042	0.04	Yes	8	0.08245	0.03022	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1376	0.1023	0.04	Yes	8	0.12	0.01663	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-1	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-11	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-12	0.00121	0.00102	0.006	No	8	0.001044	0.00006718	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.003439	0.001973	0.006	No	8	0.002706	0.0006916	0	None	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.00102	0.000897	0.006	No	8	0.001005	0.00004349	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.00102	0.000964	0.006	No	8	0.001013	0.0000198	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-25	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-29 (bg)	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-31	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-32	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-33	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.00141	0.00102	0.006	No	8	0.001069	0.0001379	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.00102	0.00075	0.006	No	8	0.0009862	0.00009546	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-1	0.0257	0.01943	0.01	Yes	8	0.02256	0.002958	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0233	0.0121	0.01	Yes	8	0.01441	0.00374	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-11	0.006262	0.002966	0.01	No	8	0.004614	0.001555	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.000251	0.0002	0.01	No	8	0.0002101	0.00001957	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-13	0.005115	0.00146	0.01	No	8	0.003288	0.001724	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.03248	0.01975	0.01	Yes	8	0.02611	0.006006	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-15	0.00046	0.0002	0.01	No	8	0.0002511	0.0000992	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-16	0.1032	0.0651	0.01	Yes	8	0.08413	0.01795	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.8211	0.2849	0.01	Yes	8	0.553	0.2529	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.0661	0.0477	0.01	Yes	8	0.05153	0.006034	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-2	0.01634	0.004488	0.01	No	8	0.01042	0.005592	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.000216	0.00014	0.01	No	8	0.0001945	0.00002272	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-25	0.00033	0.0002	0.01	No	8	0.0002262	0.00005041	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-29 (bg)	0.0002	0.00009	0.01	No	8	0.0001862	0.00003889	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-31	0.0002	0.000111	0.01	No	8	0.0001889	0.00003147	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.0002	0.000142	0.01	No	8	0.0001915	0.0000203	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-33	0.0002	0.0002	0.01	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-5	0.4632	0.3926	0.01	Yes	8	0.4279	0.0333	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-6	0.000303	0.0002	0.01	No	8	0.0002229	0.0000428	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-7	0.0002	0.0001	0.01	No	8	0.0001812	0.0000372	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-8	0.00027	0.0002	0.01	No	8	0.0002147	0.00002794	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-9	0.01088	0.008615	0.01	No	8	0.009744	0.00126	0	None	x^3	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03189	0.02076	2	No	8	0.02633	0.005246	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.256	0.1608	2	No	8	0.2084	0.0449	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.09353	0.05898	2	No	8	0.07588	0.0173	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03354	0.01998	2	No	8	0.02676	0.006398	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1987	0.07468	2	No	8	0.1349	0.06771	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1111	0.06	2	No	8	0.08555	0.02411	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.03802	0.02765	2	No	8	0.03284	0.004894	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.1017	0.05639	2	No	8	0.07905	0.02138	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3346	0.1939	2	No	8	0.2643	0.0664	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1181	0.07945	2	No	8	0.09879	0.01824	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03605	0.02977	2	No	8	0.03291	0.002963	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GC-AP-MW-21	0.09086	0.03807	2	No	8	0.06446	0.0249	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1079	0.08222	2	No	8	0.09506	0.01212	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-29 (bg)	0.05417	0.037	2	No	8	0.04559	0.008101	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.03077	0.02268	2	No	8	0.02673	0.003813	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0764	0.0123	2	No	8	0.02808	0.02768	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.09627	0.03669	2	No	8	0.06554	0.03401	0	None	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.323	0.134	2	No	8	0.213	0.08253	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-6	0.07915	0.05638	2	No	8	0.06776	0.01074	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08536	0.07174	2	No	8	0.07855	0.006429	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1337	0.08444	2	No	8	0.1091	0.02323	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.192	0.1333	2	No	8	0.1626	0.02768	0	None	No	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-25	0.00102	0.00102	0.004	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.000347	0.0002	0.005	No	8	0.0002184	0.00005197	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.0002	0.00012	0.005	No	8	0.0001825	0.00003284	75	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-2	0.0002	0.00013	0.005	No	8	0.0001912	0.00002475	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.0002	0.0000702	0.005	No	8	0.0001838	0.00004589	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-25	0.0002	0.00009	0.005	No	8	0.0001862	0.00003889	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-29 (bg)	0.000204	0.00019	0.005	No	8	0.0001992	0.000003991	75	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.00018	0.005	No	8	0.00052	0.0009132	75	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-8	0.000241	0.0002	0.005	No	8	0.0002051	0.0000145	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.001015	0.00034	0.1	No	8	0.0008464	0.0003122	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-10	0.001015	0.000357	0.1	No	8	0.0008509	0.0003039	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-11	0.001015	0.00027	0.1	No	8	0.0009219	0.0002634	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-12	0.001015	0.000224	0.1	No	8	0.000833	0.0003387	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-13	0.001015	0.00026	0.1	No	8	0.0008326	0.000338	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-14	0.001015	0.00023	0.1	No	8	0.0008346	0.0003357	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-15	0.001015	0.00027	0.1	No	8	0.0008326	0.0003378	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-16	0.001015	0.0004	0.1	No	8	0.0008668	0.0002748	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-17	0.001015	0.000216	0.1	No	8	0.0008158	0.0003689	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-18	0.001015	0.00023	0.1	No	8	0.0008333	0.000338	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-2	0.00267	0.0004	0.1	No	8	0.001145	0.0006527	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-21	0.001015	0.00027	0.1	No	8	0.0008366	0.0003307	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-25	0.001015	0.00028	0.1	No	8	0.0008338	0.0003357	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-29 (bg)	0.001015	0.00026	0.1	No	8	0.0008429	0.0003207	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-31	0.001015	0.00042	0.1	No	8	0.0008723	0.0002646	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-32	0.001015	0.00038	0.1	No	8	0.0008626	0.0002825	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-33	0.001015	0.0005	0.1	No	8	0.0009086	0.0002027	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-5	0.001015	0.00027	0.1	No	8	0.0008306	0.0003414	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-6	0.001015	0.00026	0.1	No	8	0.0008371	0.0003302	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-7	0.001015	0.000351	0.1	No	8	0.0008501	0.0003053	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-8	0.001015	0.00031	0.1	No	8	0.0008433	0.0003182	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-9	0.001015	0.0003	0.1	No	8	0.0008464	0.000313	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-1	0.2419	0.09402	0.0167	Yes	8	0.168	0.06975	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.04142	0.01286	0.0167	No	8	0.02661	0.01501	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.04089	0.01771	0.0167	Yes	8	0.0293	0.01094	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.00118	0.0002	0.0167	No	8	0.000415	0.0004032	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-13	0.000312	0.00007	0.0167	No	8	0.0001977	0.00006481	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-14	0.03978	0.02009	0.0167	Yes	8	0.02994	0.00929	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01978	0.01607	0.0167	No	8	0.01793	0.001748	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01704	0.01309	0.0167	No	8	0.01506	0.001865	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.03078	0.01047	0.0167	No	8	0.02038	0.01224	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01764	0.01488	0.0167	No	8	0.01626	0.001303	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.02701	0.01008	0.0167	No	8	0.01855	0.007989	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-21	0.00204	0.0002	0.0167	No	8	0.0005887	0.0007358	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-25	0.01322	0.008801	0.0167	No	8	0.01103	0.002275	0	None	x^2	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-29 (bg)	0.0032	0.0006699	0.0167	No	8	0.001935	0.001276	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-31	0.000624	0.0002	0.0167	No	8	0.000303	0.0001908	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-32	0.00105	0.0002	0.0167	No	8	0.0003947	0.0003626	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-33	0.0002	0.0002	0.0167	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.007756	0.005214	0.0167	No	8	0.006485	0.001199	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003646	0.002144	0.0167	No	8	0.002895	0.0007085	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003954	0.001189	0.0167	No	8	0.002571	0.001304	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.01069	0.005169	0.0167	No	8	0.00793	0.002605	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.02546	0.01235	0.0167	No	8	0.01878	0.006633	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.479	0.8935	5	No	8	1.186	0.2762	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.304	0.7249	5	No	8	1.014	0.273	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.716	0.3875	5	No	8	0.5518	0.155	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	0.4167	-0.006568	5	No	8	0.2051	0.1997	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.5651	0.2819	5	No	8	0.4235	0.1335	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.366	0.7254	5	No	8	1.046	0.3022	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	0.8089	-0.01243	5	No	8	0.3983	0.3875	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.246	0.3429	5	No	8	0.7946	0.4262	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.103	0.9517	5	No	8	1.527	0.5431	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.531	0.8688	5	No	8	1.194	0.3725	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.372	0.4214	5	No	8	0.8816	0.5027	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.5083	0.00631	5	No	8	0.2573	0.2368	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.7903	0.06719	5	No	8	0.4288	0.3411	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-29 (bg)	1.545	0.17	5	No	8	0.8911	1.236	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.7019	0.1435	5	No	8	0.4227	0.2634	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	1.931	-0.4671	5	No	8	0.7321	1.131	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.346	0.7809	5	No	8	1.54	0.8407	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.033	1.195	5	No	8	1.614	0.3957	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.274	0.4795	5	No	8	0.8768	0.3748	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.129	0.5125	5	No	8	0.812	0.3375	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.445	0.3727	5	No	8	0.9086	0.5056	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.669	0.8994	5	No	8	1.284	0.3629	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1804	0.07032	4	No	8	0.1254	0.05194	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2865	0.201	4	No	8	0.2438	0.04034	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1833	0.1035	4	No	8	0.1434	0.03765	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2327	0.1713	4	No	8	0.202	0.02899	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1349	0.07823	4	No	8	0.1066	0.02674	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.2742	0.1835	4	No	8	0.2289	0.04277	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1514	0.1121	4	No	8	0.1318	0.01856	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.3035	0.25	4	No	8	0.2768	0.02528	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.5898	0.4382	4	No	8	0.514	0.07147	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.2055	0.1633	4	No	8	0.1844	0.01991	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1567	0.06724	4	No	8	0.112	0.0422	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2192	0.1323	4	No	8	0.1758	0.04102	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.104	0.0914	4	No	8	0.09943	0.003532	75	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0.1	0.1	4	No	8	0.1	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-31	0.1	0.1	4	No	8	0.1	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.1	0.04	4	No	8	0.08648	0.02524	75	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.1	0.08	4	No	8	0.0975	0.007071	75	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-5	0.2824	0.1977	4	No	8	0.2396	0.04162	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2458	0.1797	4	No	8	0.2128	0.03119	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1038	0.08243	4	No	8	0.09313	0.01009	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.162	0.109	4	No	8	0.1219	0.01927	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.2067	0.1583	4	No	8	0.1825	0.02286	0	None	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.0002	0.000109	0.015	No	8	0.0001774	0.00004189	75	None	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-2	0.000736	0.0002	0.015	No	8	0.0003157	0.0002179	75	None	No	0.004	NP (normality)

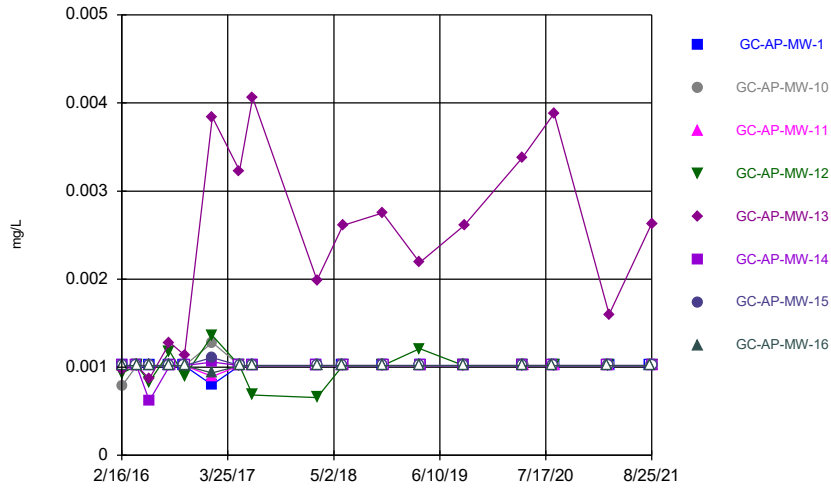
Appendix IV Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GC-AP-MW-25	0.0002	0.0000884	0.015	No	8	0.000186	0.00003946	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.0002	0.000121	0.015	No	8	0.0001839	0.00003085	75	None	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-9	0.0002	0.0000784	0.015	No	8	0.0001848	0.00004299	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.01	0.01	0.04	No	8	0.01	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-10	0.198	0.104	0.04	Yes	8	0.1301	0.03153	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1323	0.08237	0.04	Yes	8	0.1073	0.02355	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1366	0.05552	0.04	Yes	8	0.09605	0.03824	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4092	0.1002	0.04	Yes	8	0.2547	0.1457	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	1.038	0.6368	0.04	Yes	8	0.8374	0.1892	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6303	0.5344	0.04	Yes	8	0.5824	0.04524	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6582	0.5236	0.04	Yes	8	0.5909	0.06351	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.864	0.531	0.04	Yes	8	0.6138	0.1052	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-18	0.3933	0.3364	0.04	Yes	8	0.3649	0.02684	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1145	0.05042	0.04	Yes	8	0.08245	0.03022	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1376	0.1023	0.04	Yes	8	0.12	0.01663	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.03449	0.01025	0.04	No	8	0.02198	0.01322	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.07113	0.01935	0.04	No	8	0.04524	0.02443	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.09925	0.03198	0.04	No	8	0.06561	0.03173	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-1	0.0002	0.000117	0.1	No	8	0.0001896	0.00002934	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.0132	0.00747	0.1	No	8	0.008675	0.00206	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-11	0.01729	0.00816	0.1	No	8	0.01272	0.004306	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.1167	0.06199	0.1	No	8	0.08933	0.02579	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.08922	0.01462	0.1	No	8	0.05025	0.0453	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01771	0.01074	0.1	No	8	0.01423	0.003291	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.0002	0.000113	0.1	No	8	0.0001816	0.00003478	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-17	0.06902	0.04148	0.1	No	8	0.05525	0.01299	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.0004	0.0002	0.1	No	8	0.0002452	0.0000844	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-2	0.0002	0.0000804	0.1	No	8	0.0001813	0.0000421	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-21	0.0667	0.02842	0.1	No	8	0.04644	0.02323	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-25	0.0002	0.0000843	0.1	No	8	0.0001855	0.00004091	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-29 (bg)	0.0002	0.0002	0.1	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.0002	0.0000741	0.1	No	8	0.0001843	0.00004451	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.003378	0.002717	0.1	No	8	0.003048	0.0003113	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.0024	0.0002	0.1	No	8	0.0007137	0.0009544	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-7	0.0002	0.00013	0.1	No	8	0.0001857	0.00002729	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-8	0.0002	0.0000812	0.1	No	8	0.0001851	0.000042	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.00209	0.001015	0.05	No	8	0.001226	0.00041	75	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-12	0.00281	0.001015	0.05	No	8	0.001239	0.0006346	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.01732	0.001004	0.05	No	8	0.009164	0.00823	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GC-AP-MW-2	0.001015	0.00054	0.05	No	8	0.0009556	0.0001679	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-32	0.001015	0.00059	0.05	No	8	0.0009619	0.0001503	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.0002	0.000107	0.002	No	8	0.0001784	0.00004019	75	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-11	0.0002	0.000087	0.002	No	8	0.0001721	0.00005162	75	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-13	0.001512	0.0001217	0.002	No	8	0.000817	0.0006559	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.0002	0.0000878	0.002	No	8	0.000186	0.00003967	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.0003958	0.0003107	0.002	No	8	0.0003533	0.00004017	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-17	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.0002	0.000101	0.002	No	8	0.0001789	0.00003988	75	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-21	0.0002	0.000106	0.002	No	8	0.0001882	0.00003323	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
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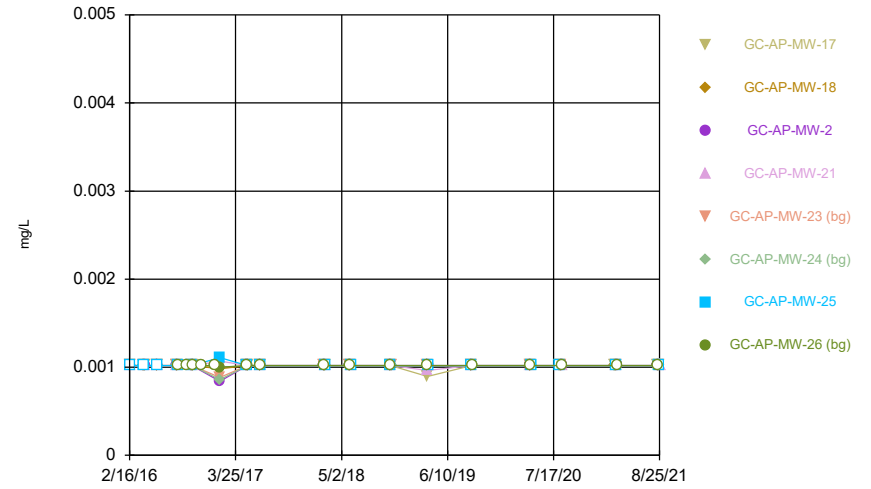
FIGURE A.

Time Series



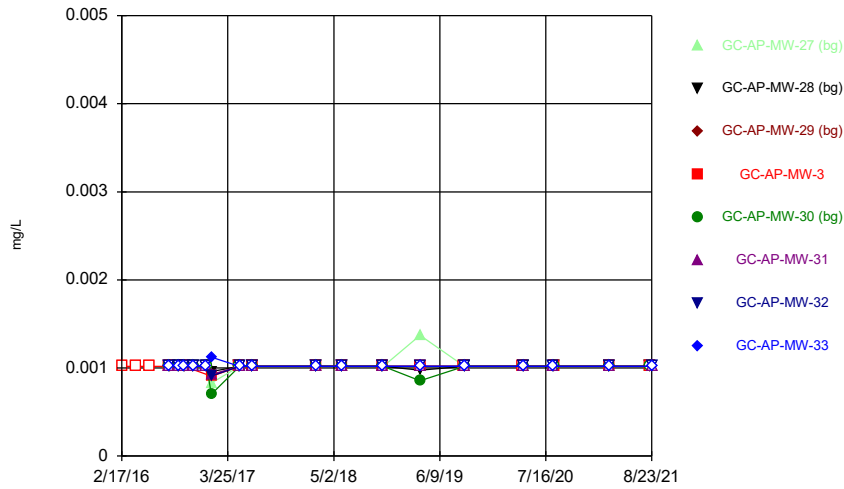
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Time Series



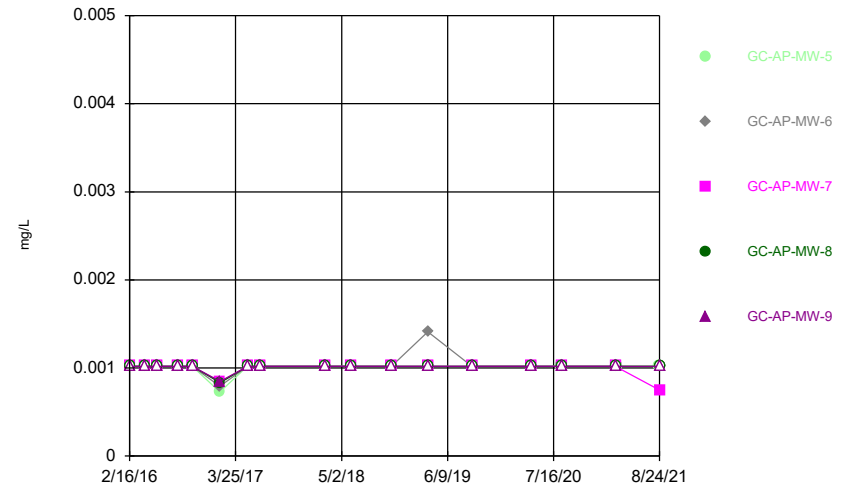
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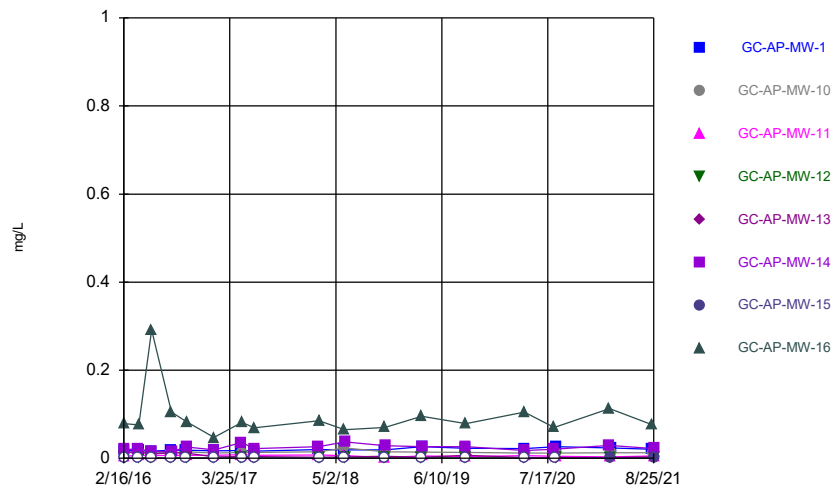
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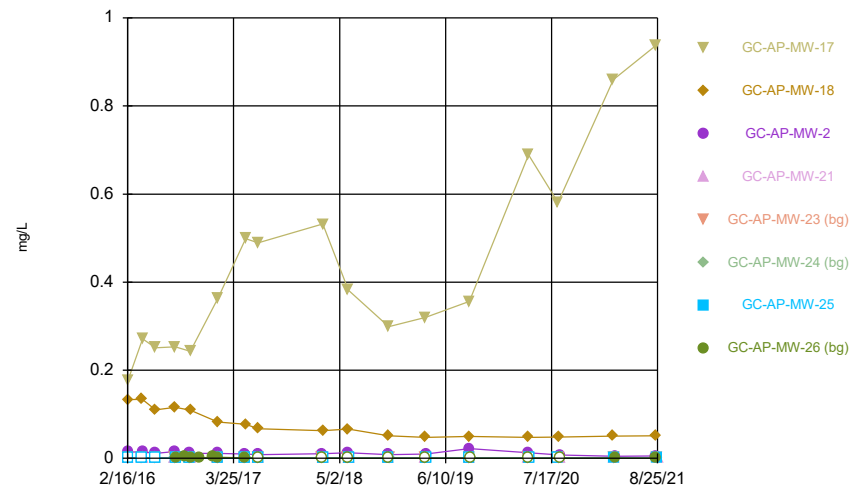
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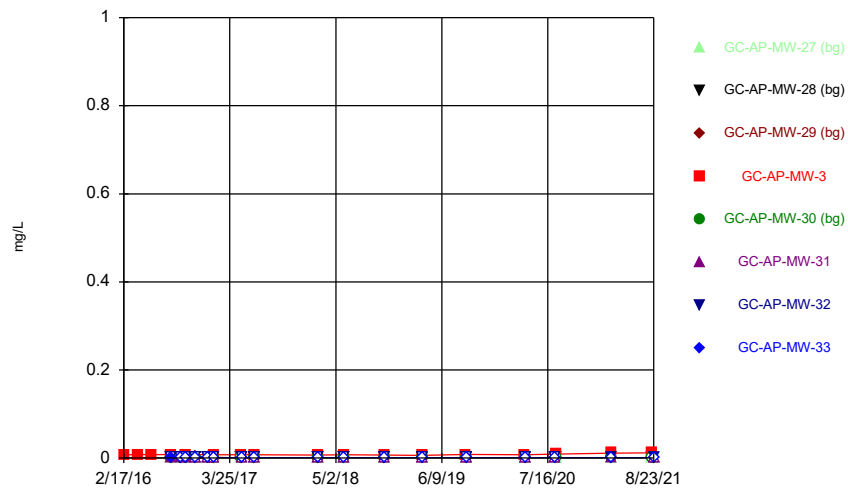
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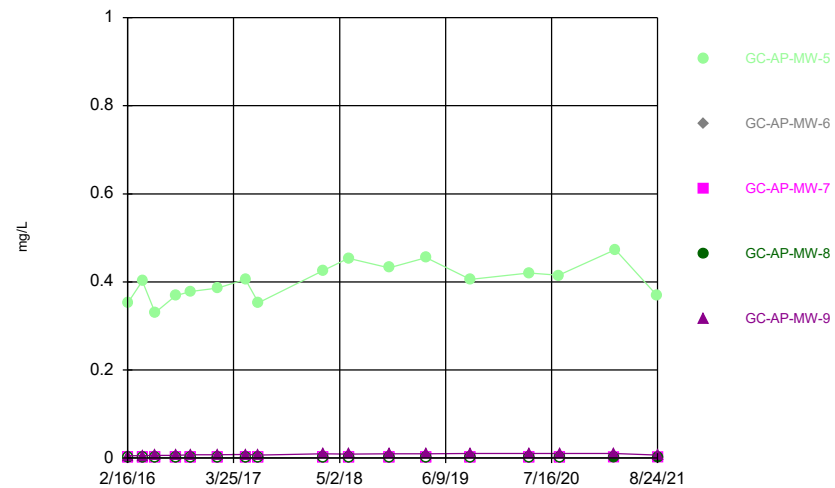
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Time Series



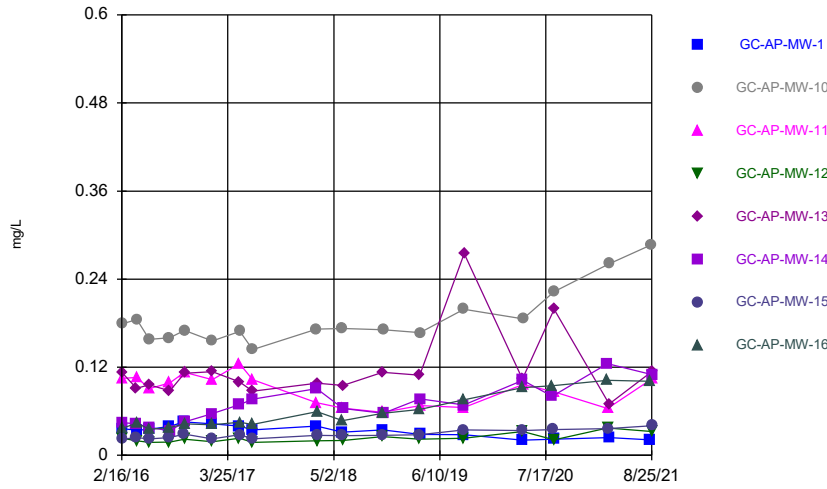
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Time Series



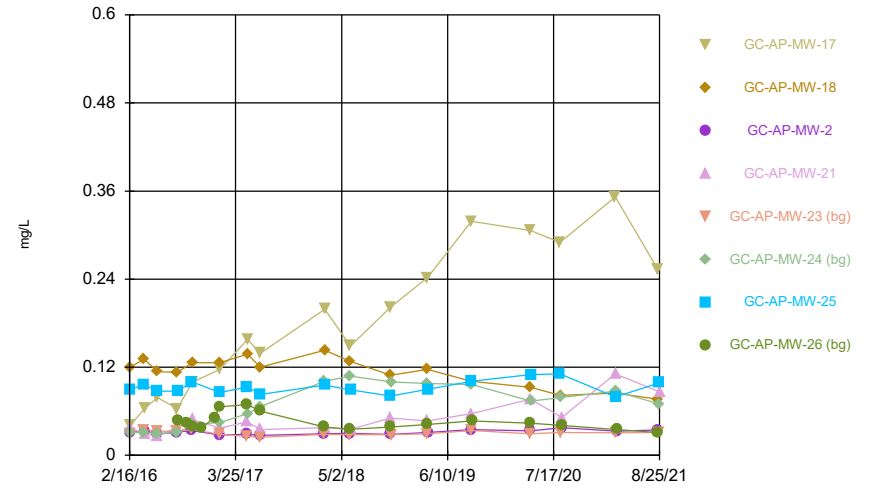
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Time Series



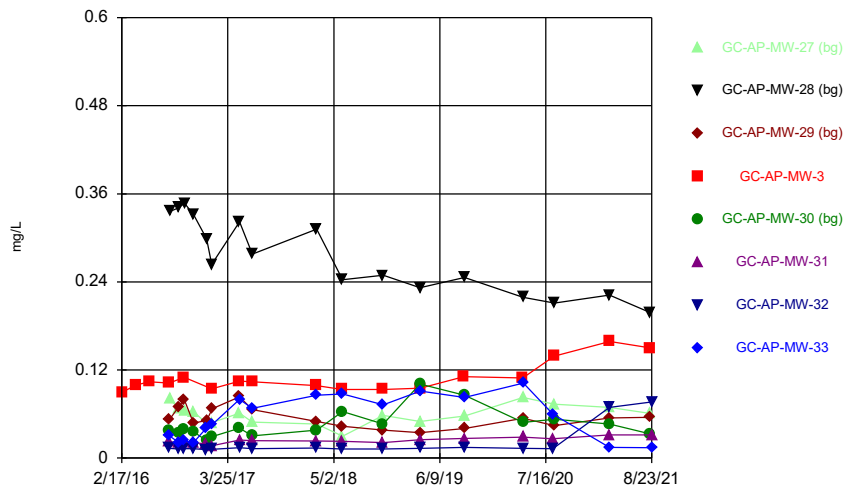
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Time Series



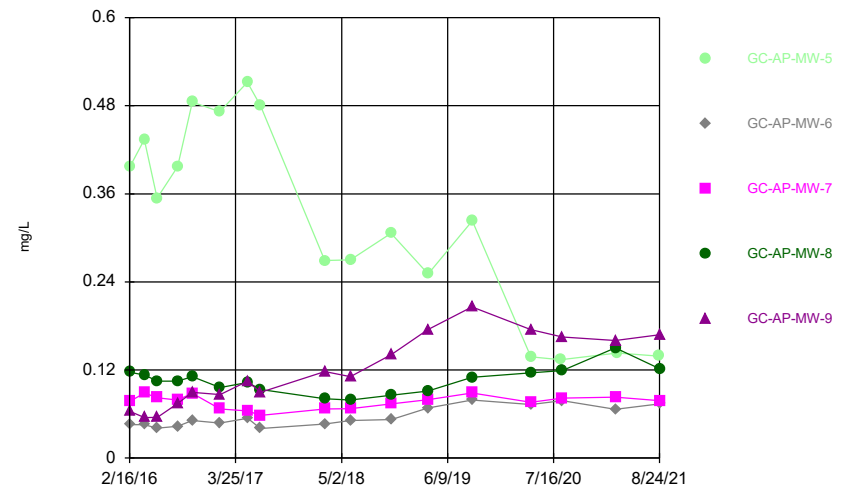
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Time Series



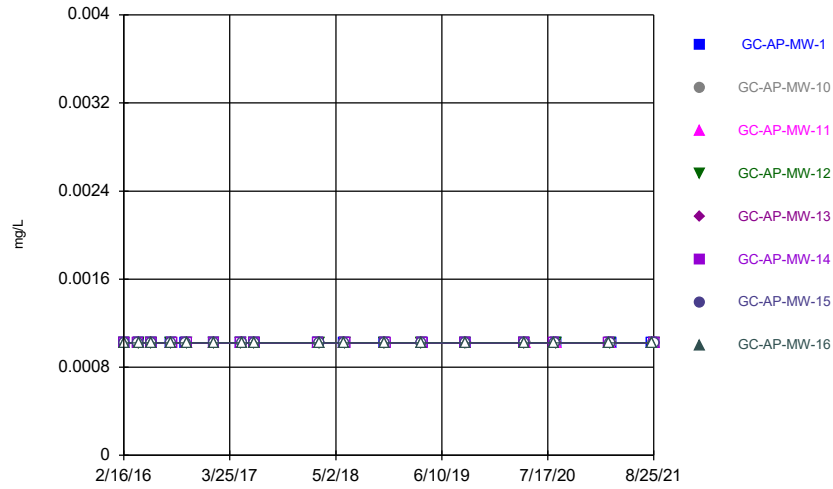
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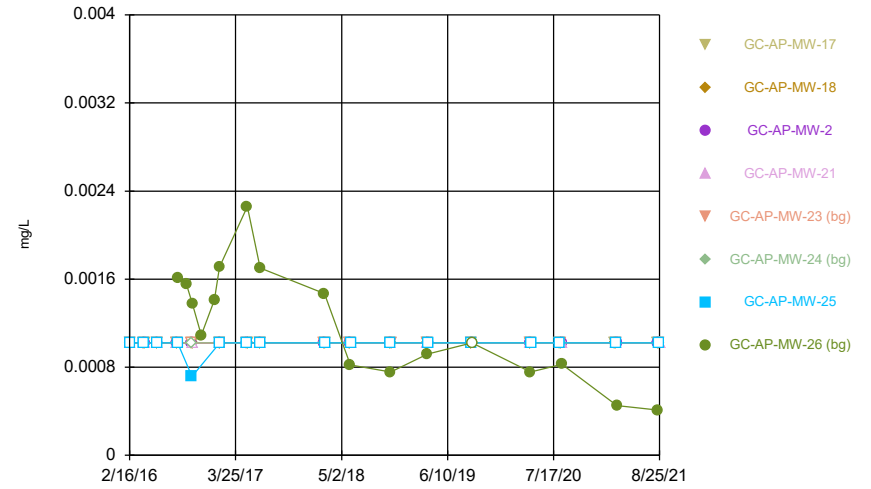
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



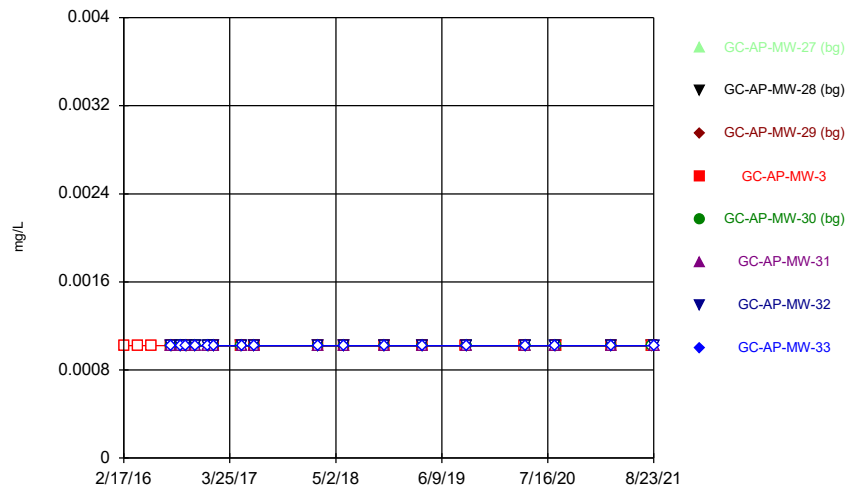
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Time Series



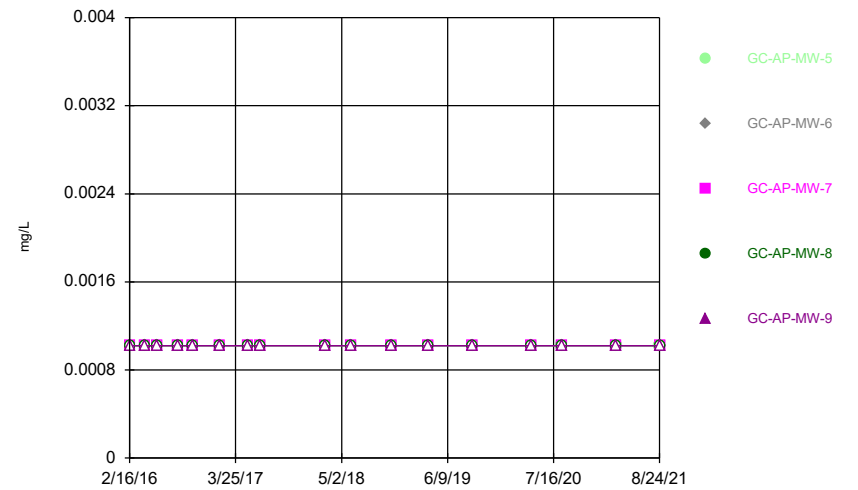
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Time Series



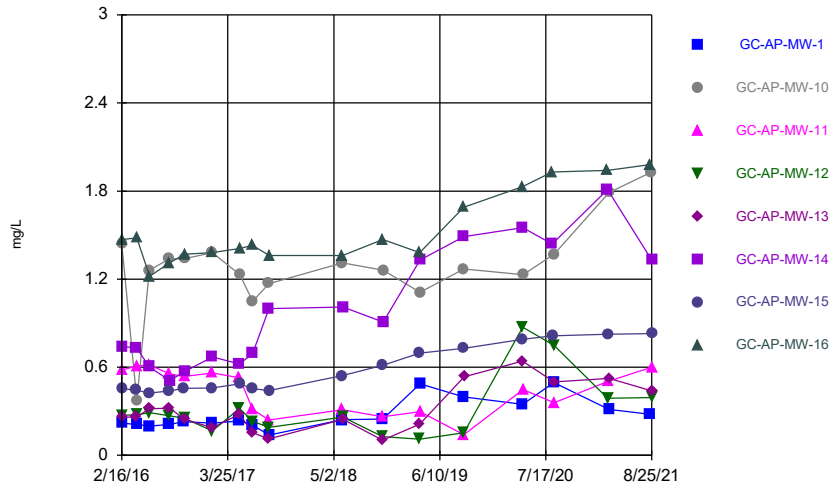
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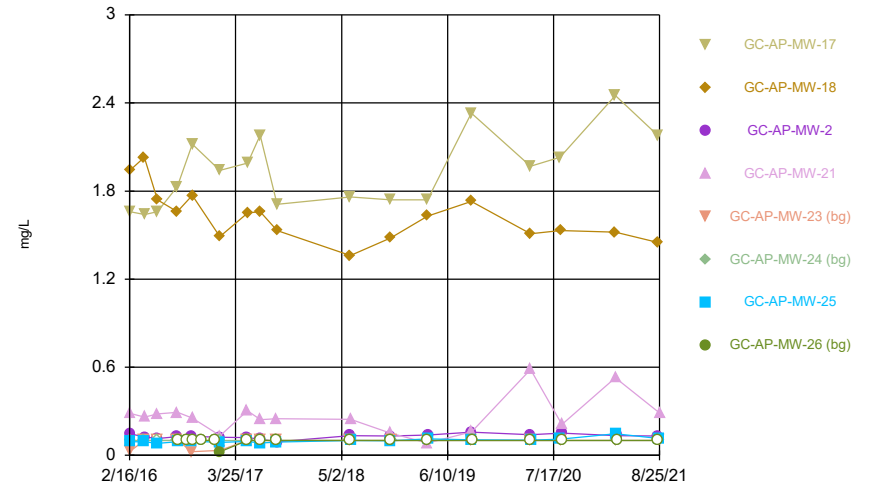
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Time Series



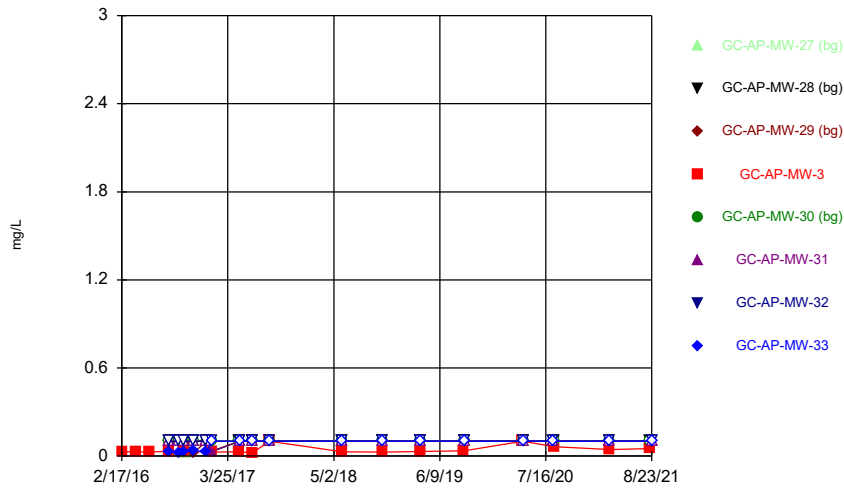
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Time Series



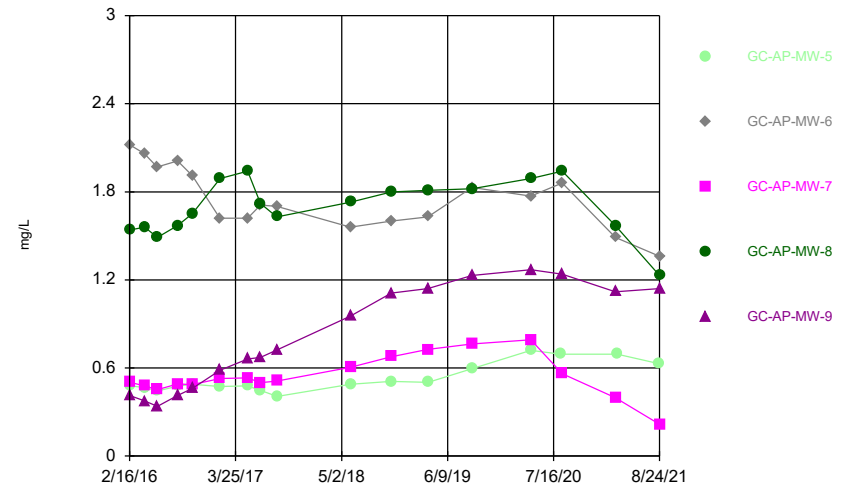
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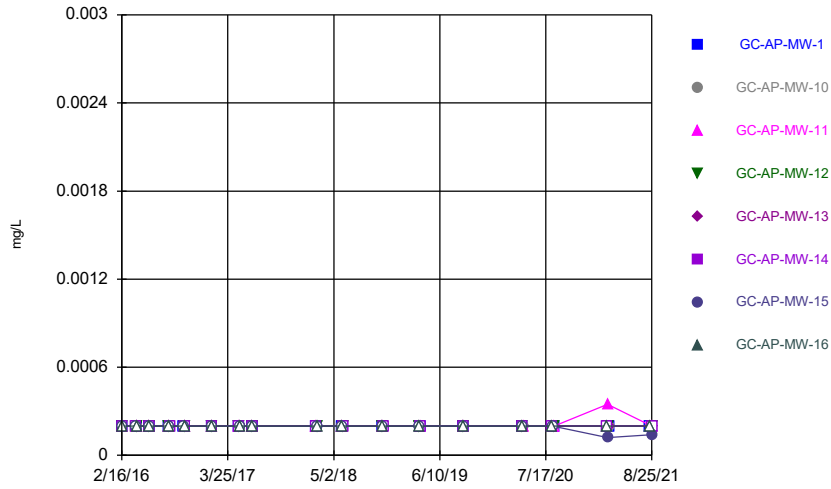
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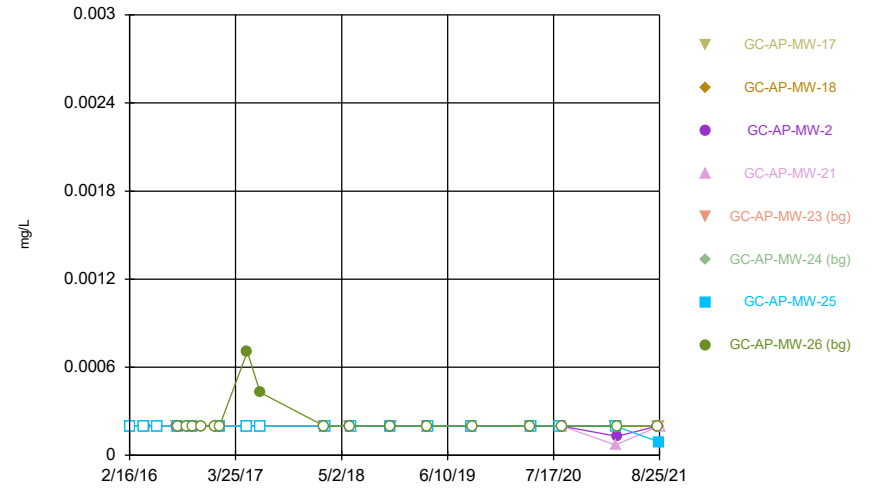
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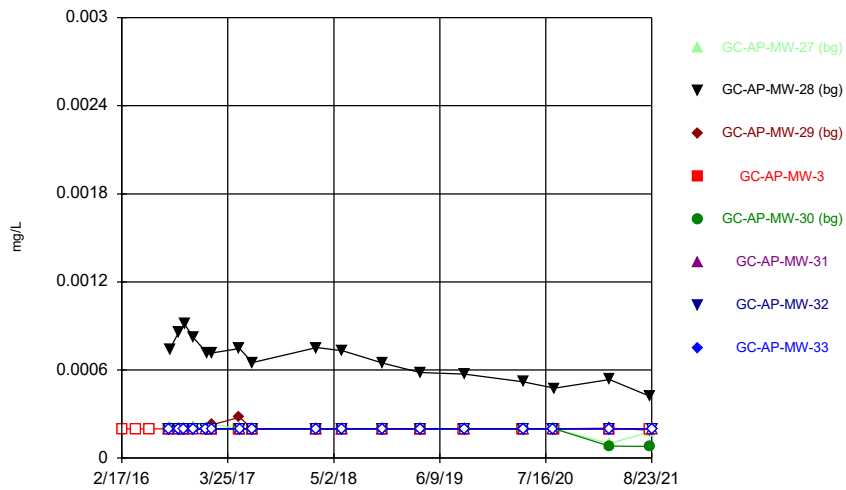
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Time Series



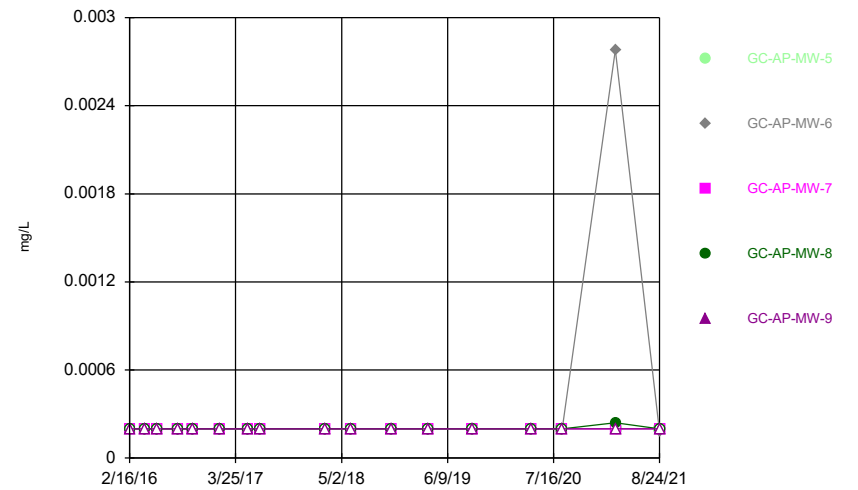
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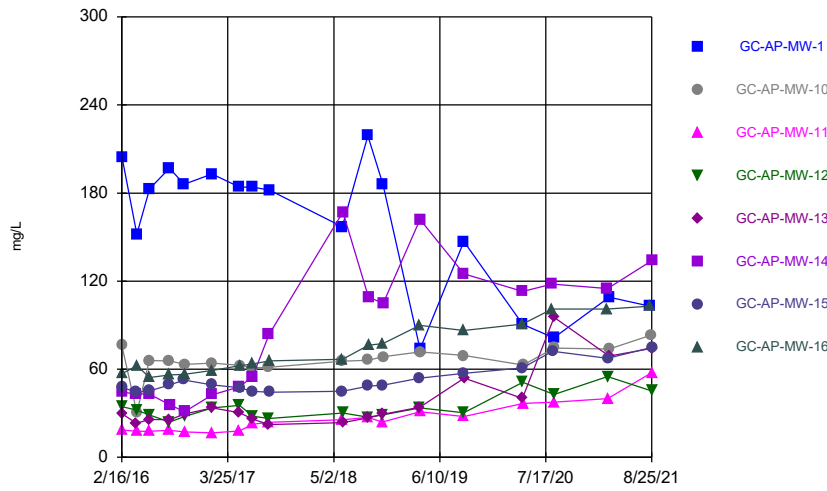
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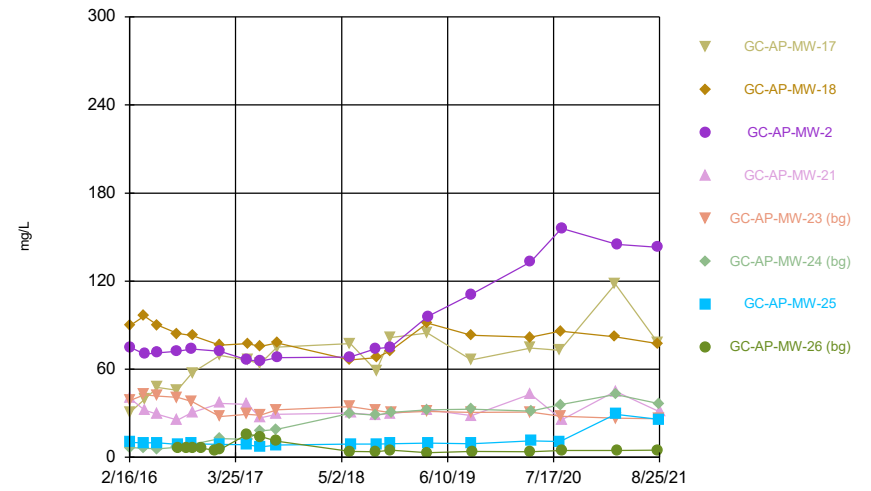
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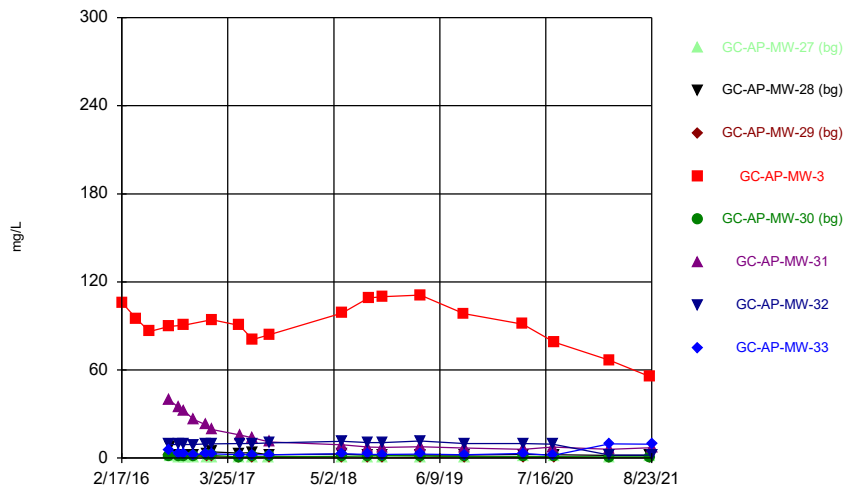
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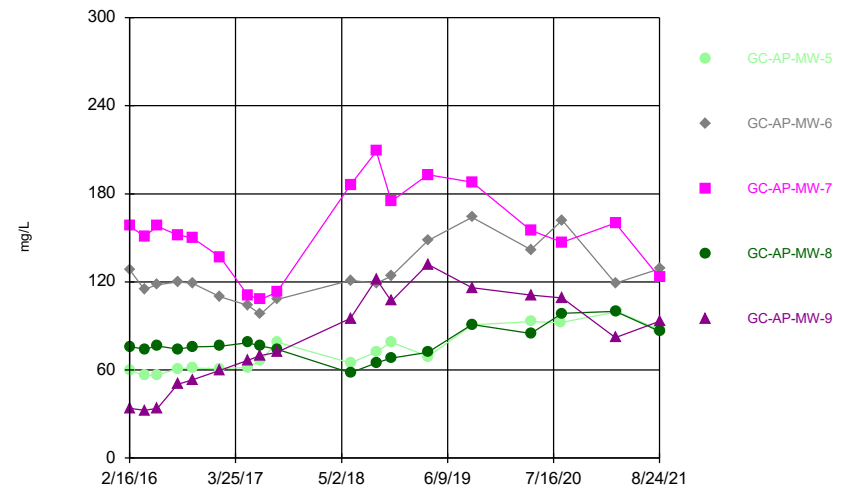
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Time Series



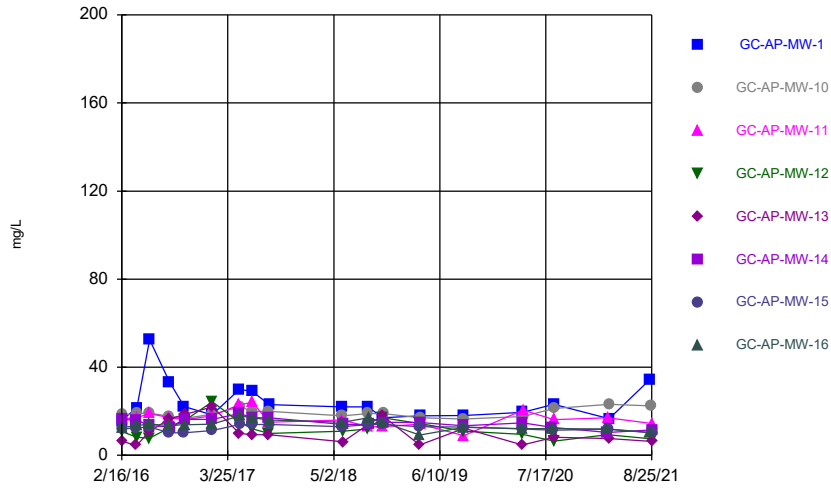
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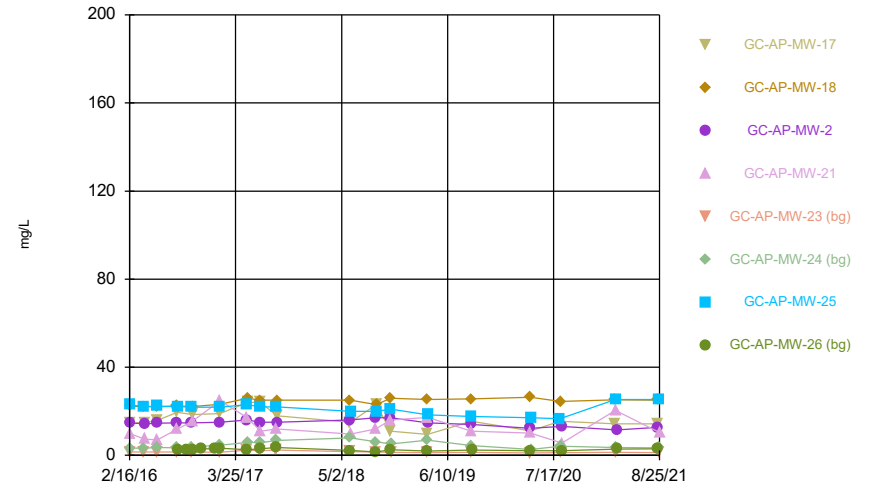
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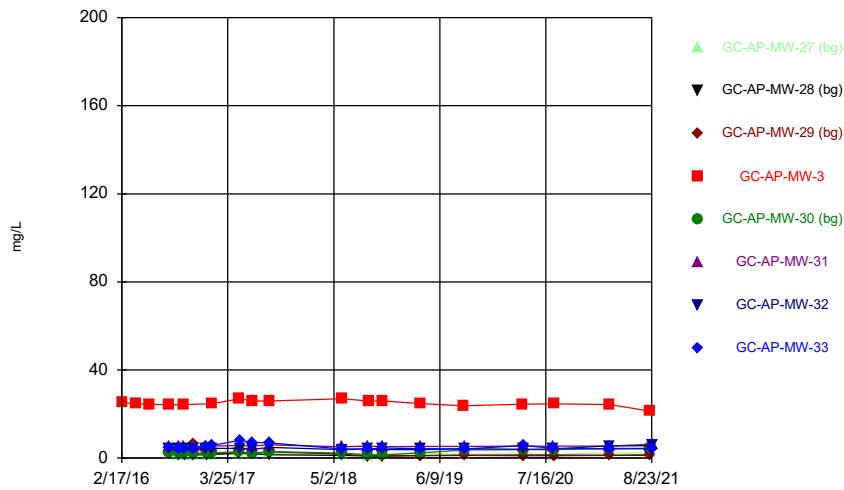
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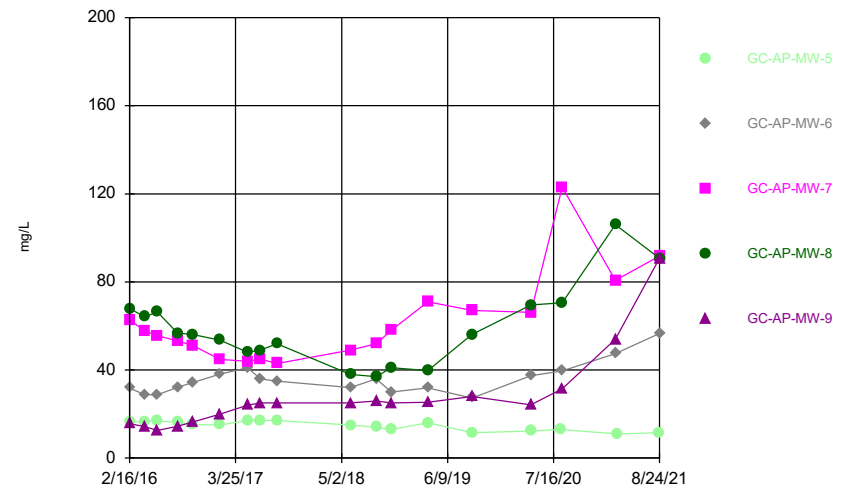
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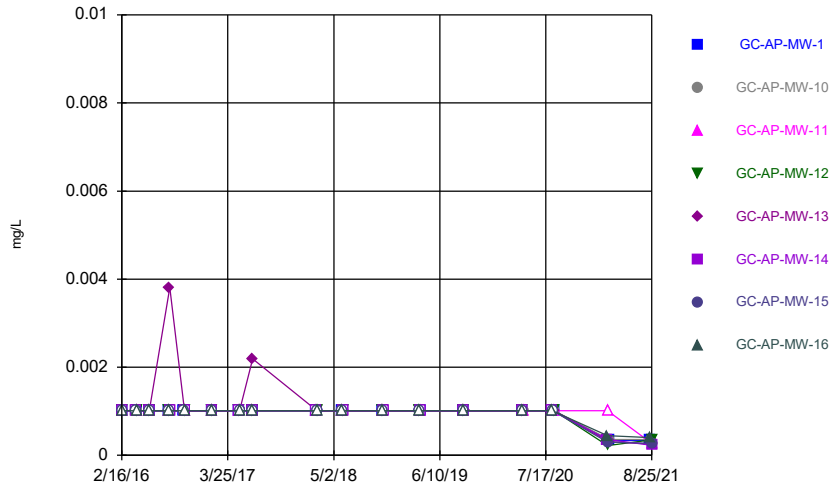
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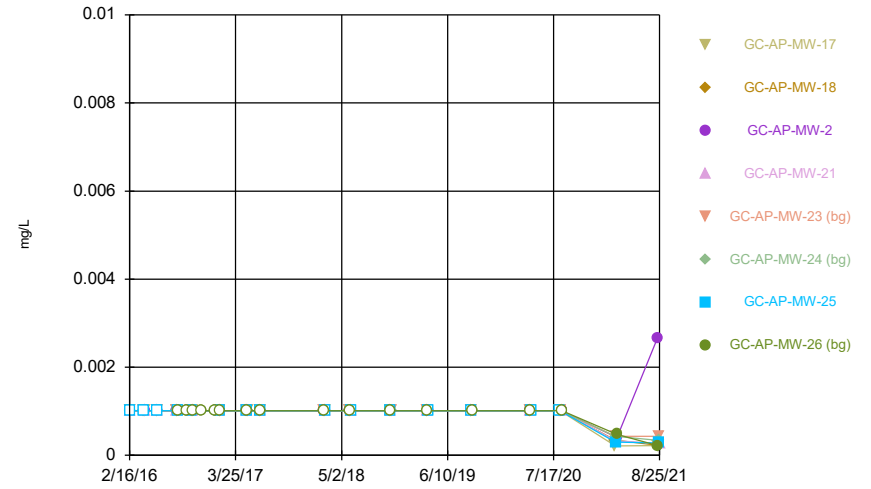
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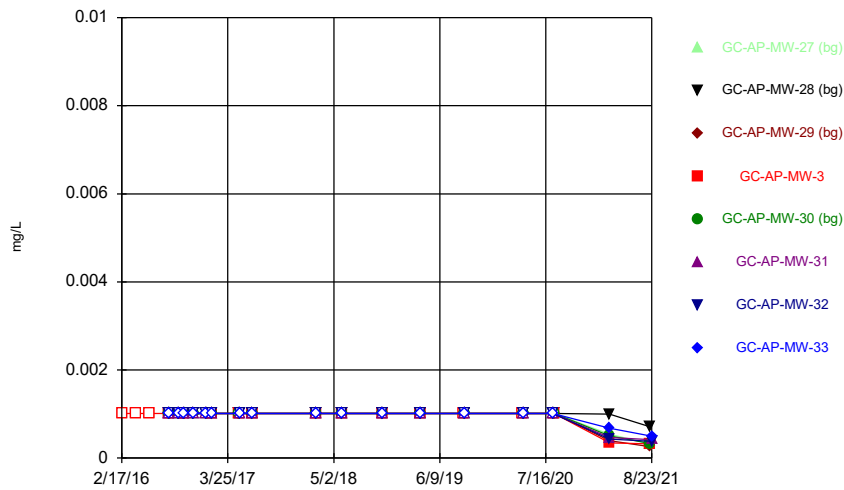
Constituent: Chromium Analysis Run 11/19/2021 7:32 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



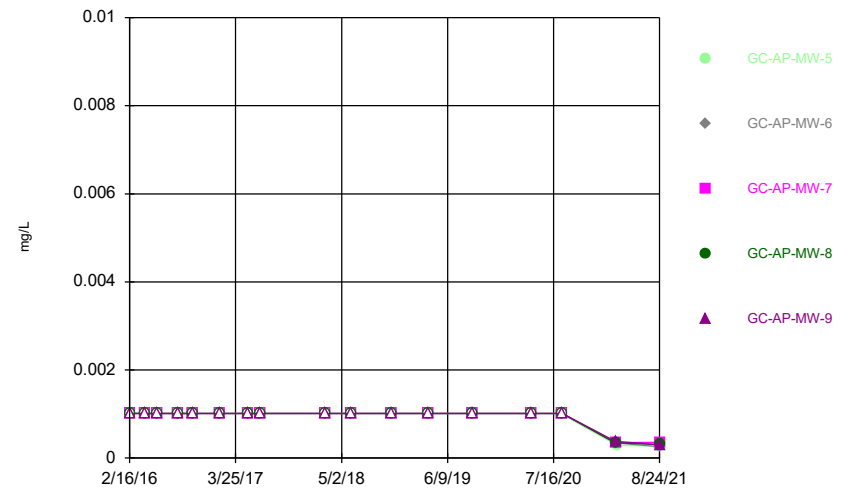
Constituent: Chromium Analysis Run 11/19/2021 7:32 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



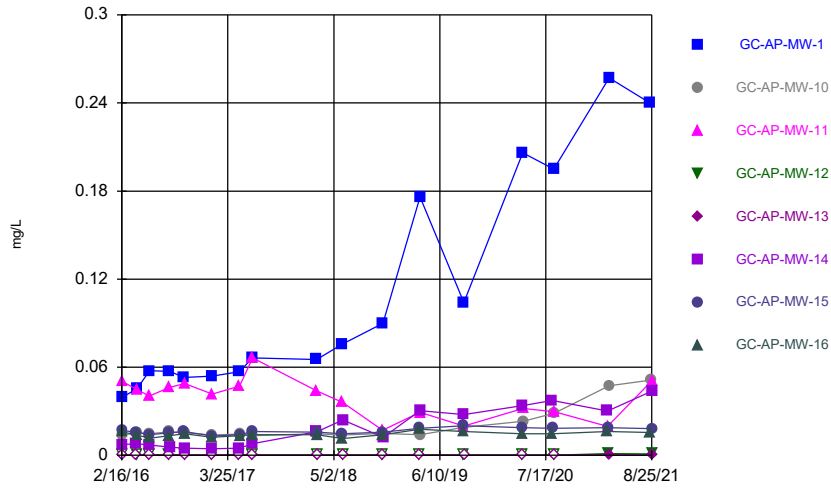
Constituent: Chromium Analysis Run 11/19/2021 7:32 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



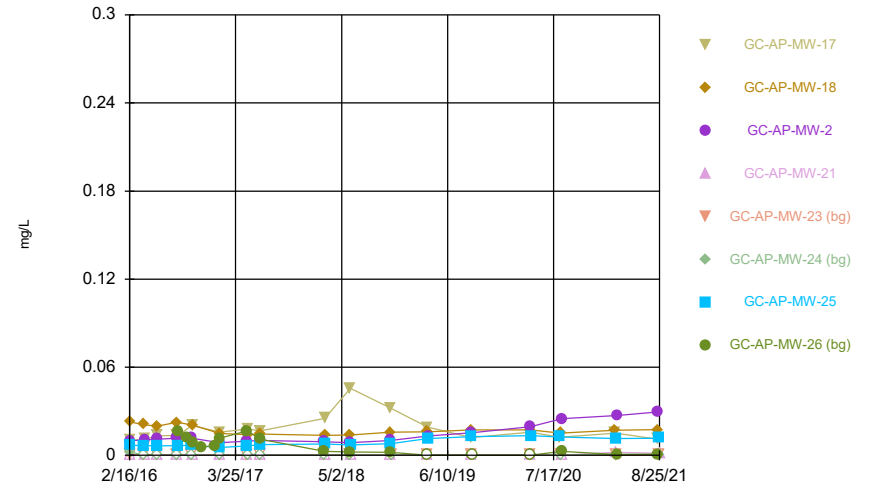
Constituent: Chromium Analysis Run 11/19/2021 7:32 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



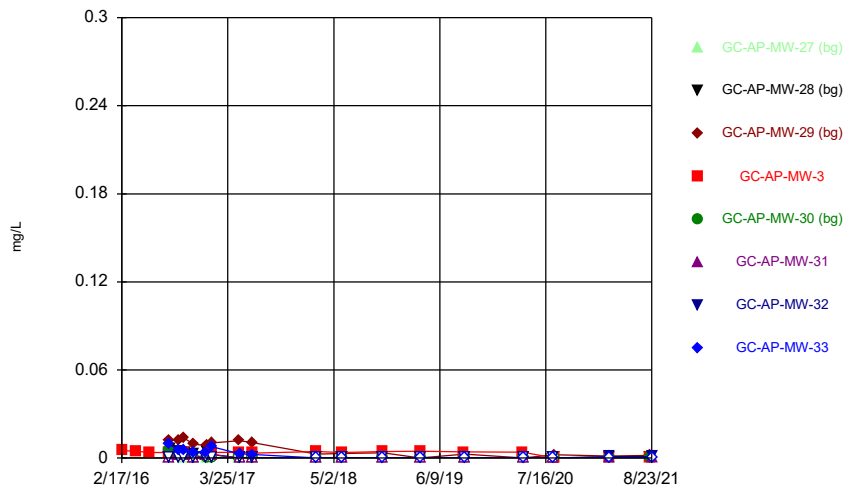
Constituent: Cobalt Analysis Run 11/19/2021 7:32 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



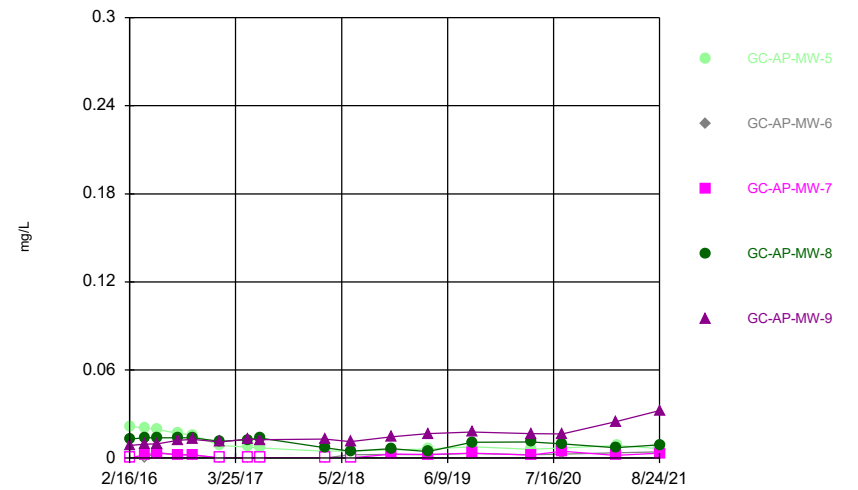
Constituent: Cobalt Analysis Run 11/19/2021 7:32 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



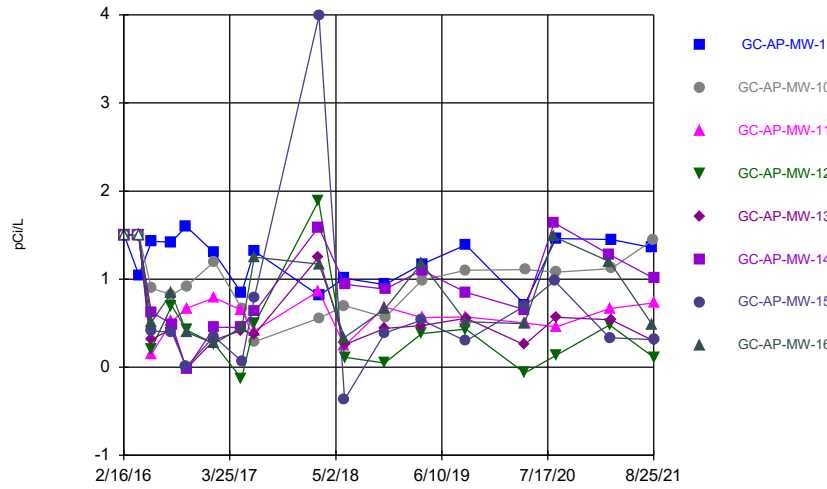
Constituent: Cobalt Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



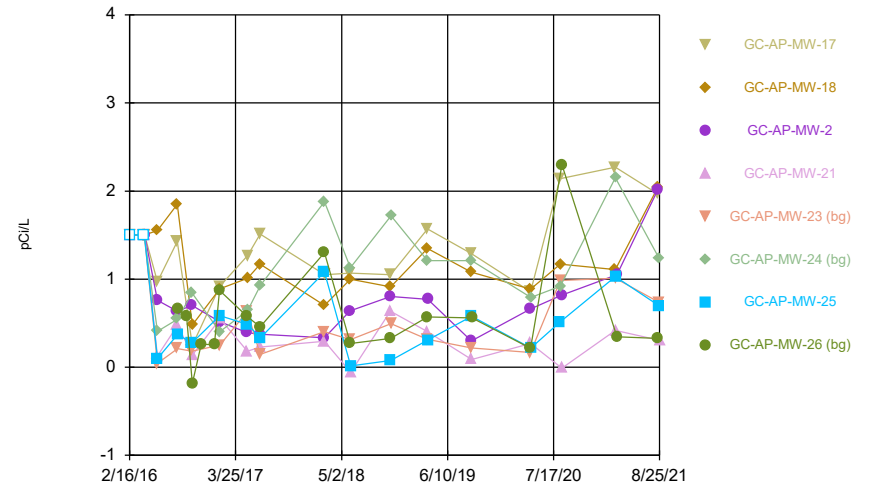
Constituent: Cobalt Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



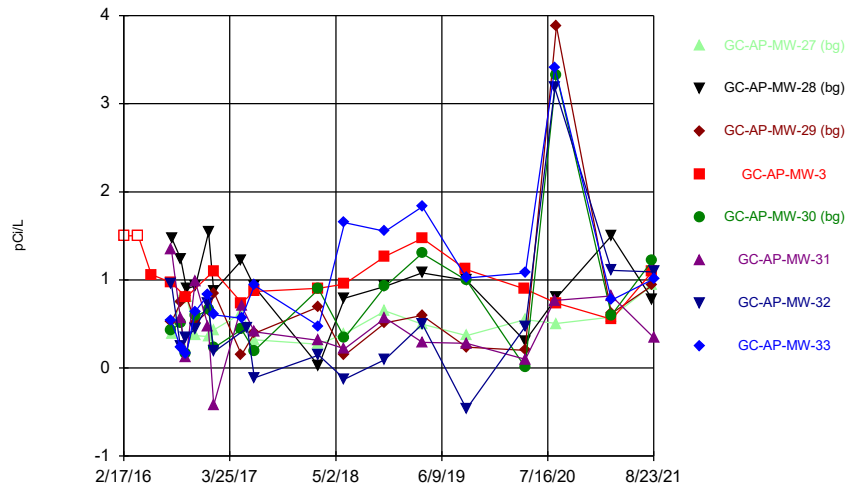
Constituent: Combined Radium 226 + 228 Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



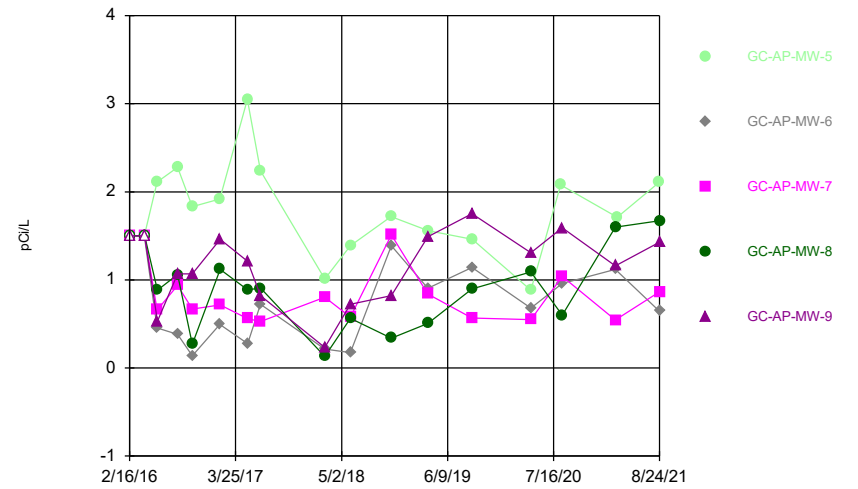
Constituent: Combined Radium 226 + 228 Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



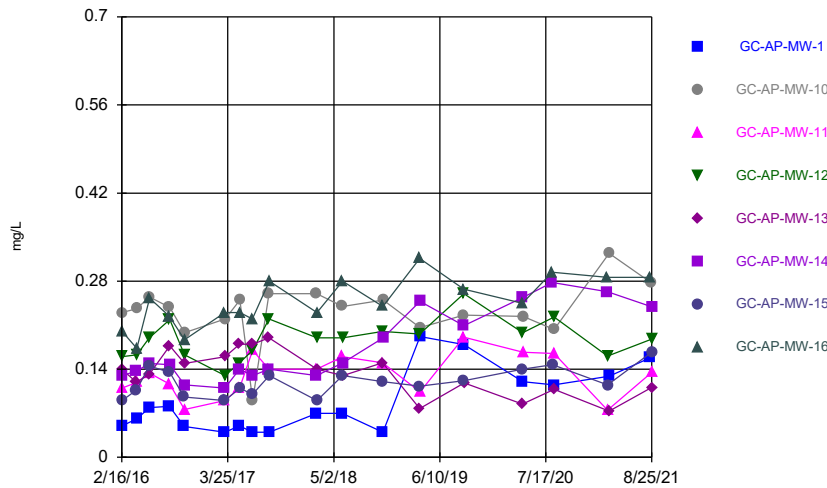
Constituent: Combined Radium 226 + 228 Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



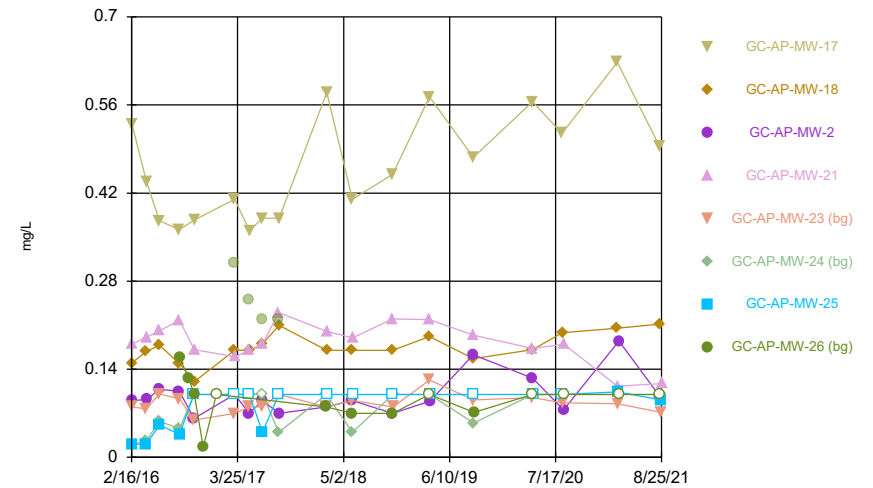
Constituent: Combined Radium 226 + 228 Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



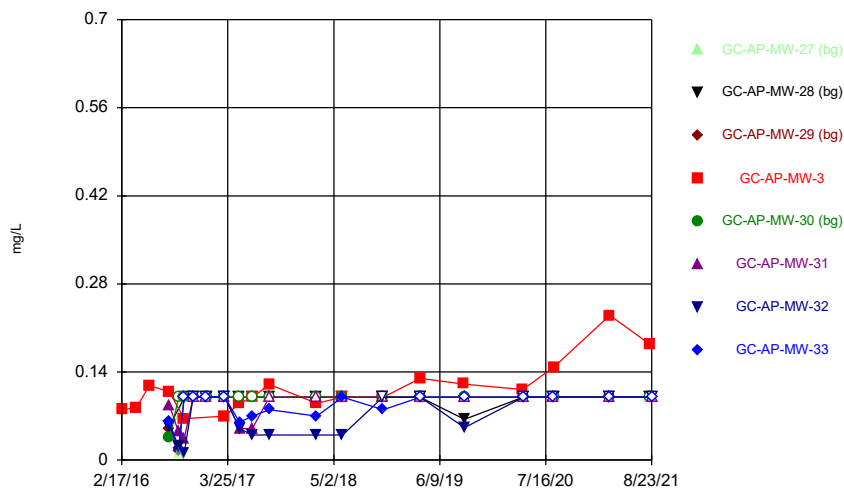
Constituent: Fluoride Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



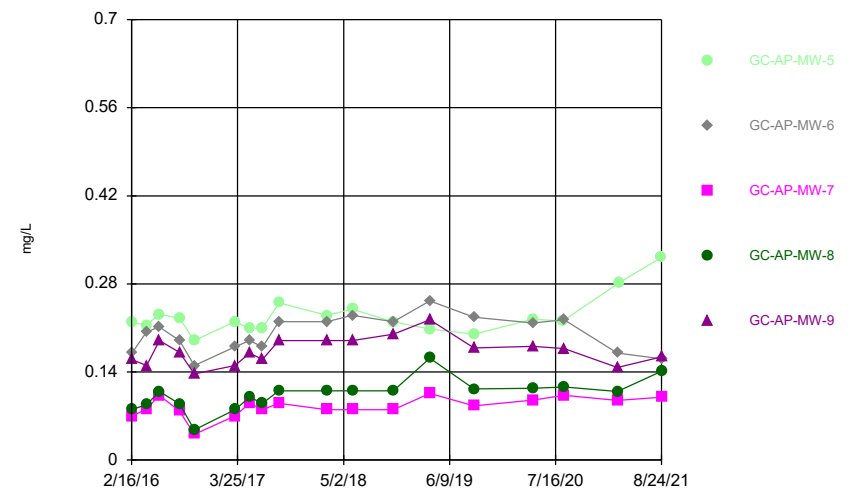
Constituent: Fluoride Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



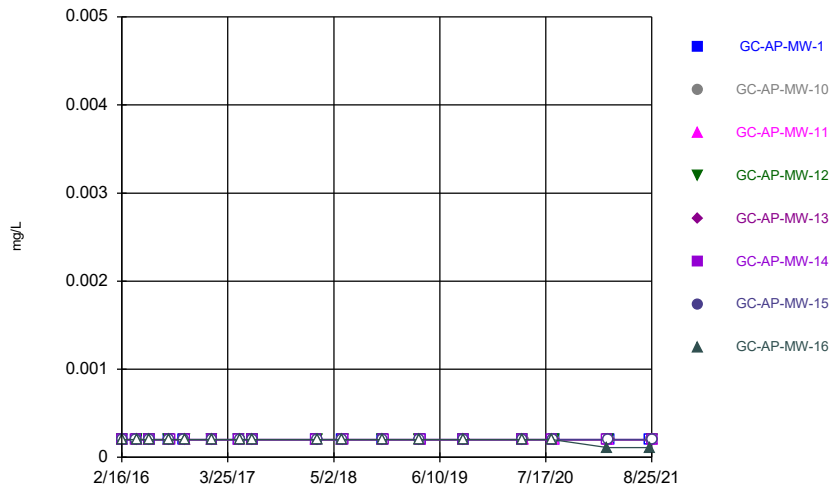
Constituent: Fluoride Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



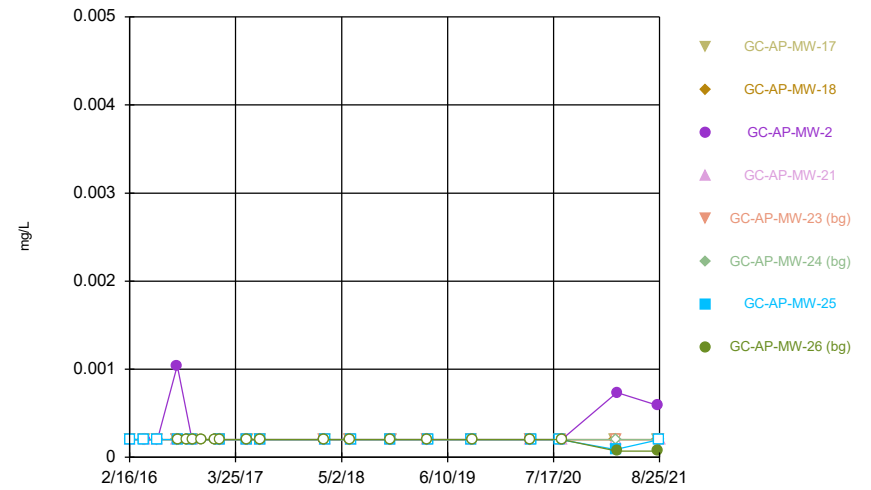
Constituent: Fluoride Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



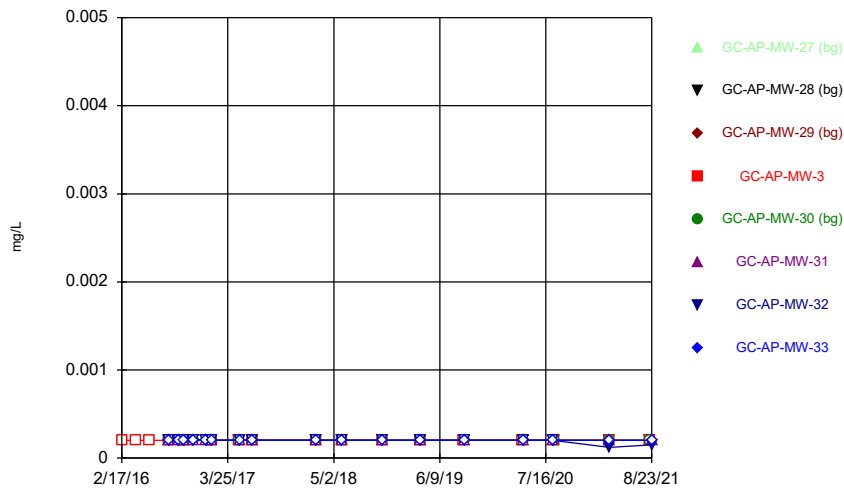
Constituent: Lead Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



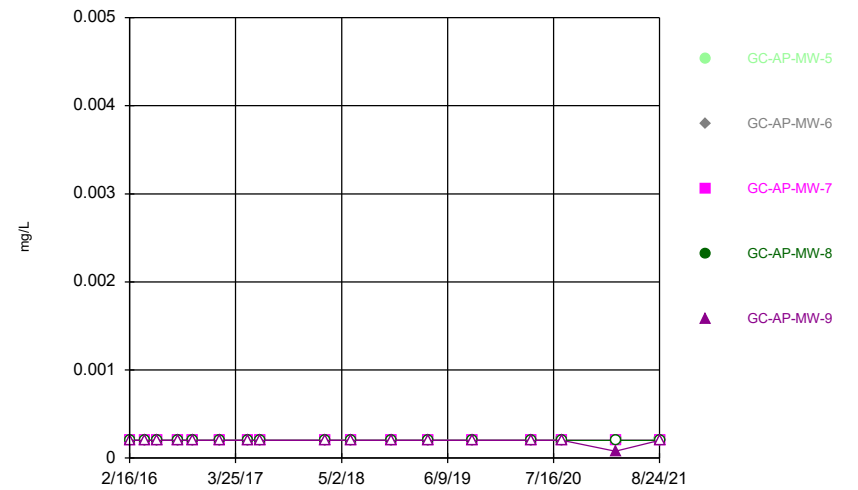
Constituent: Lead Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



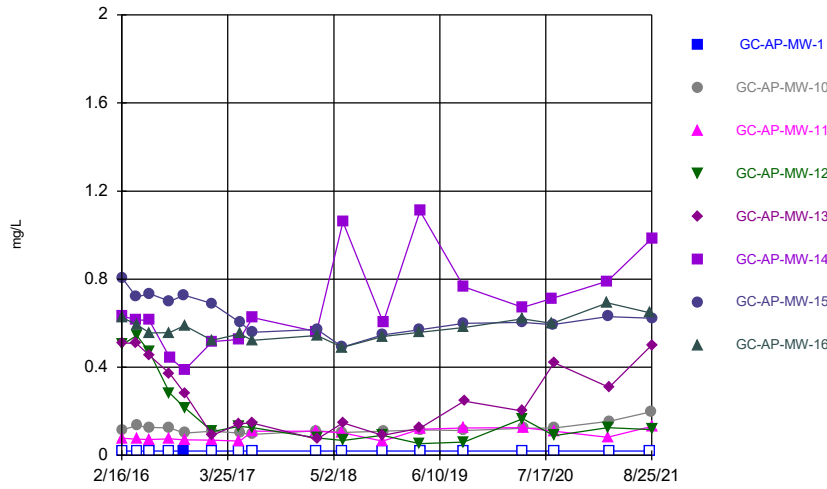
Constituent: Lead Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



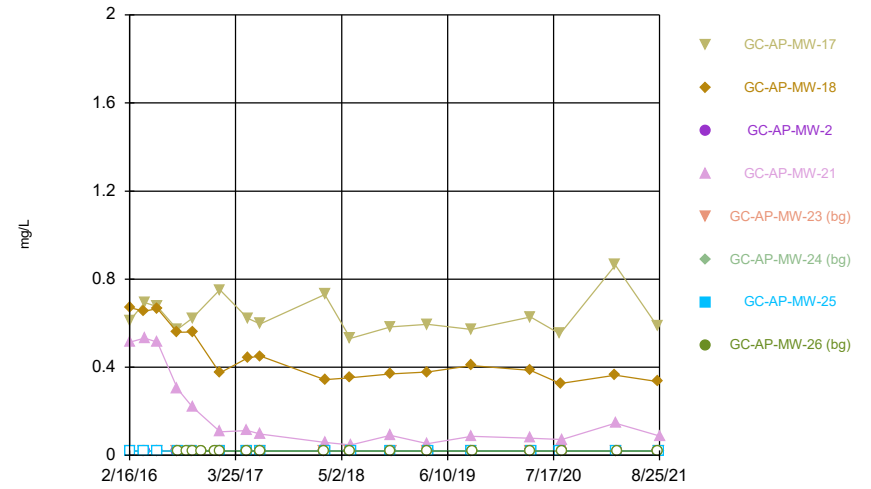
Constituent: Lead Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



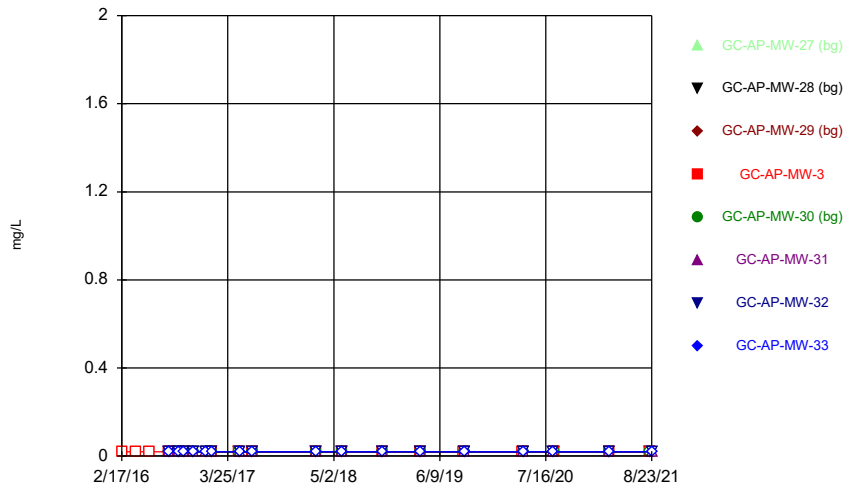
Constituent: Lithium Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



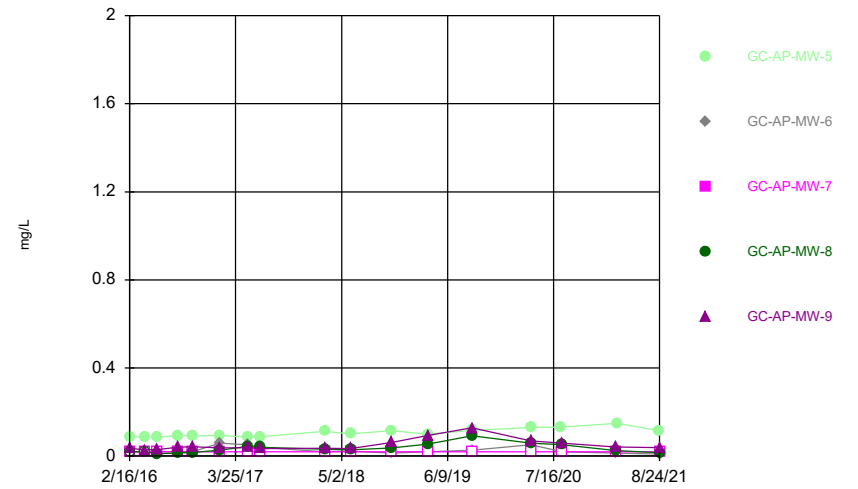
Constituent: Lithium Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



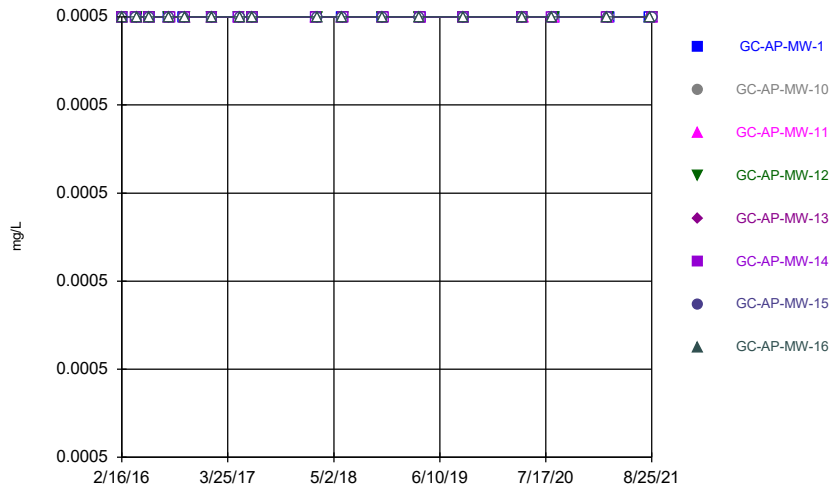
Constituent: Lithium Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



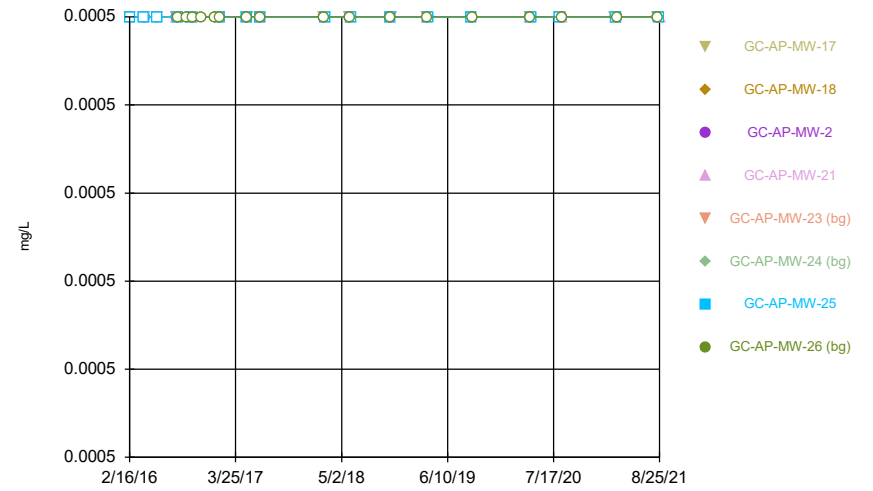
Constituent: Lithium Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



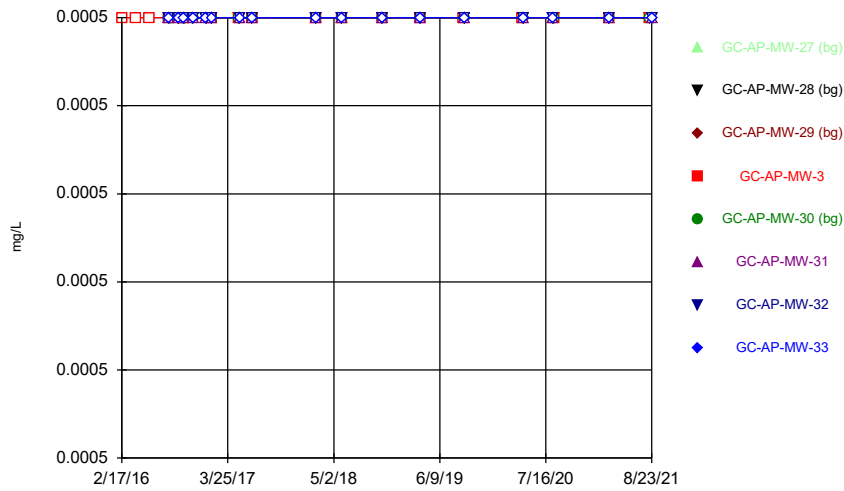
Constituent: Mercury Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



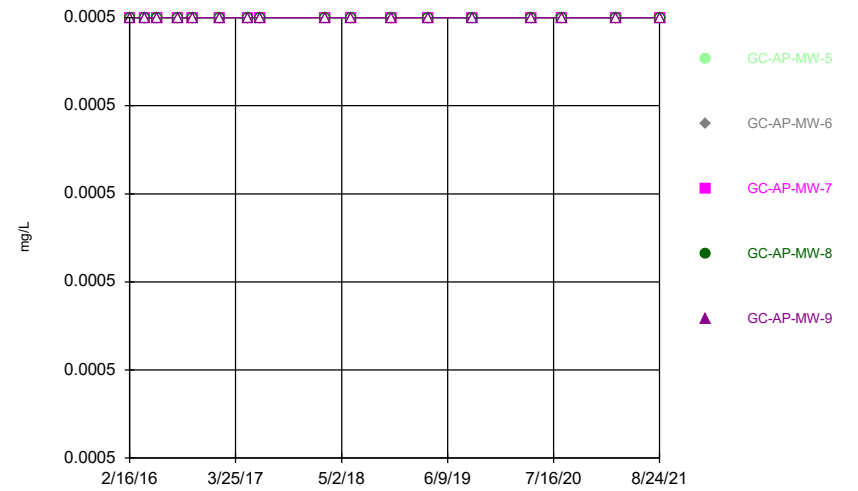
Constituent: Mercury Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



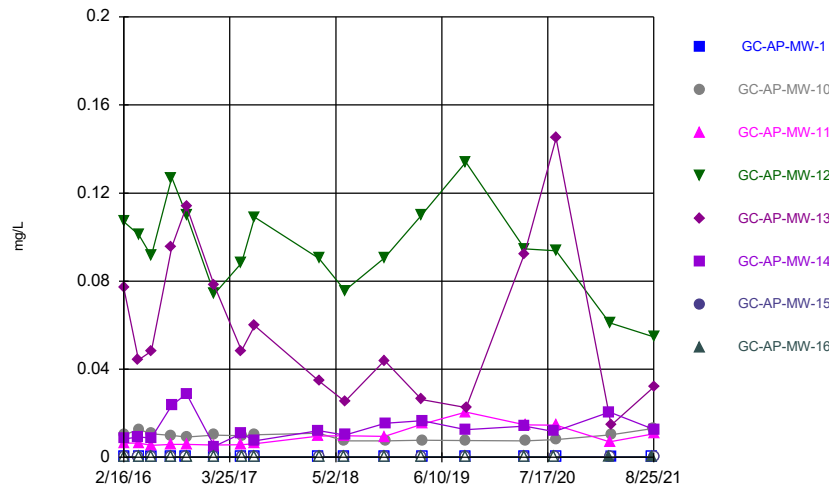
Constituent: Mercury Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



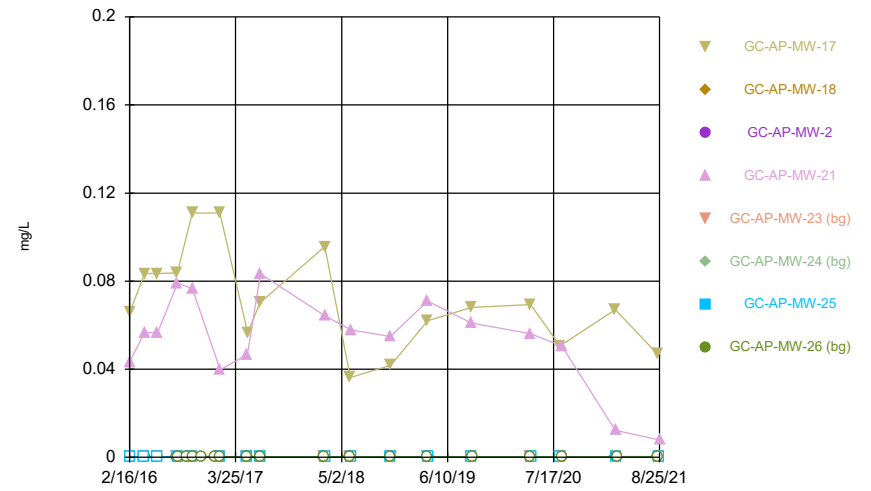
Constituent: Mercury Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



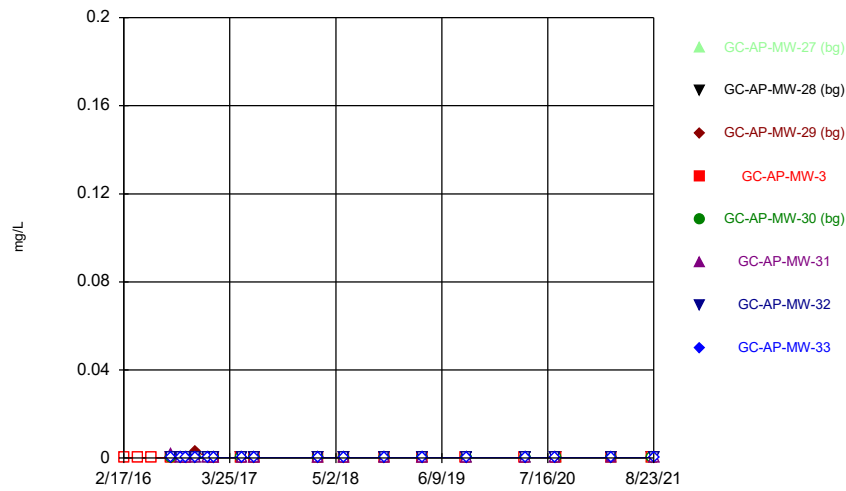
Constituent: Molybdenum Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



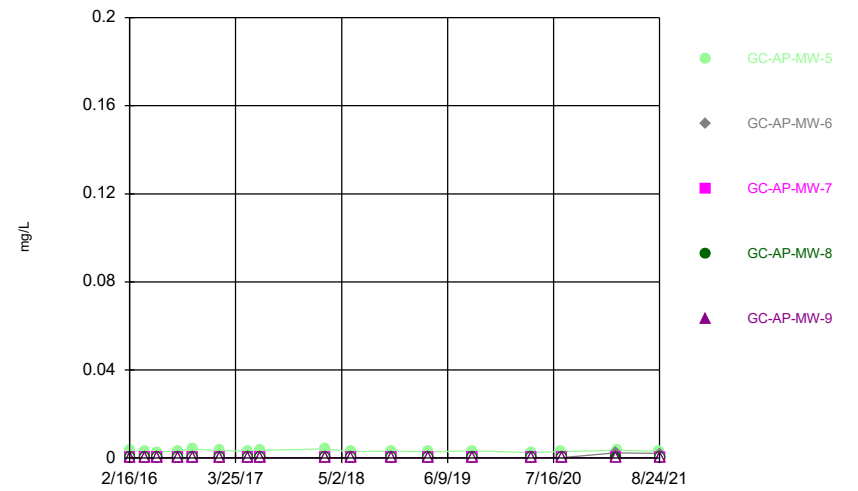
Constituent: Molybdenum Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



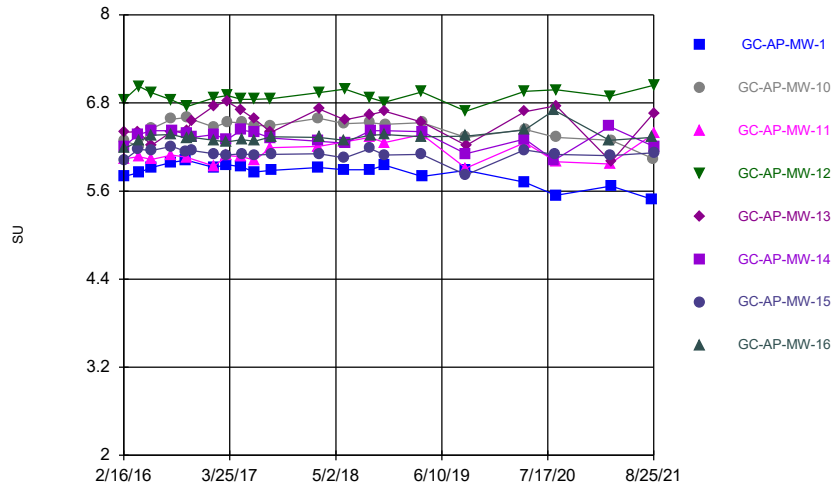
Constituent: Molybdenum Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



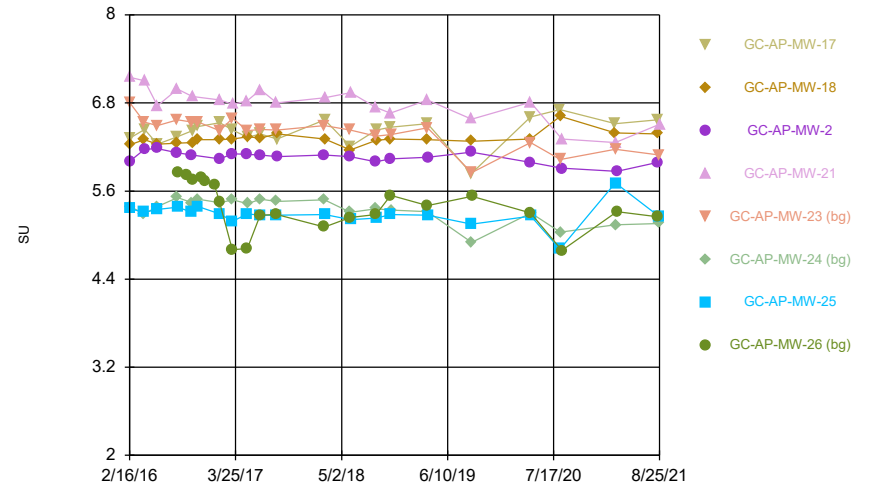
Constituent: Molybdenum Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



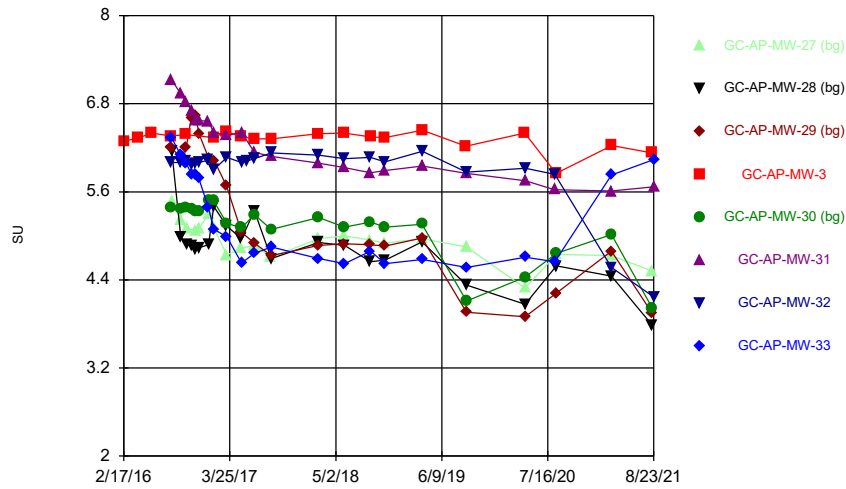
Constituent: pH Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



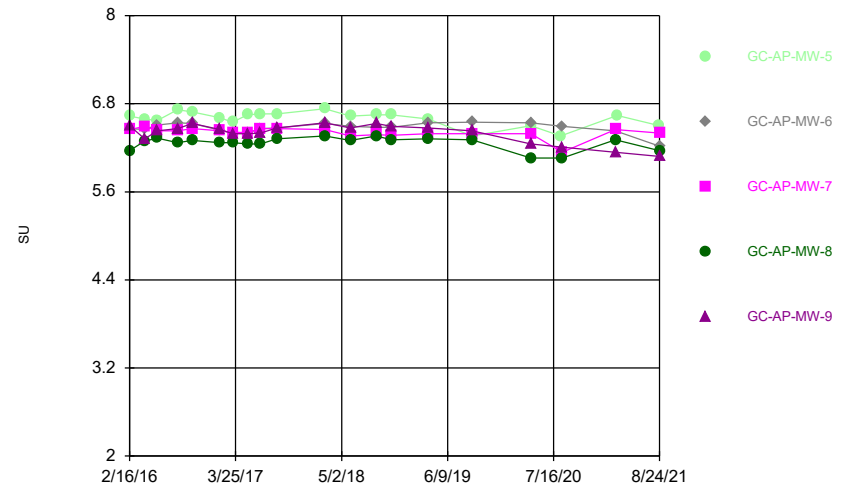
Constituent: pH Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



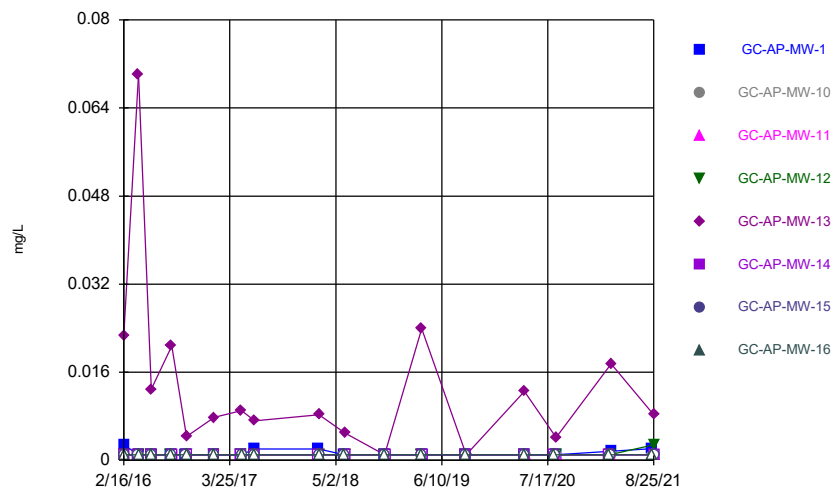
Constituent: pH Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



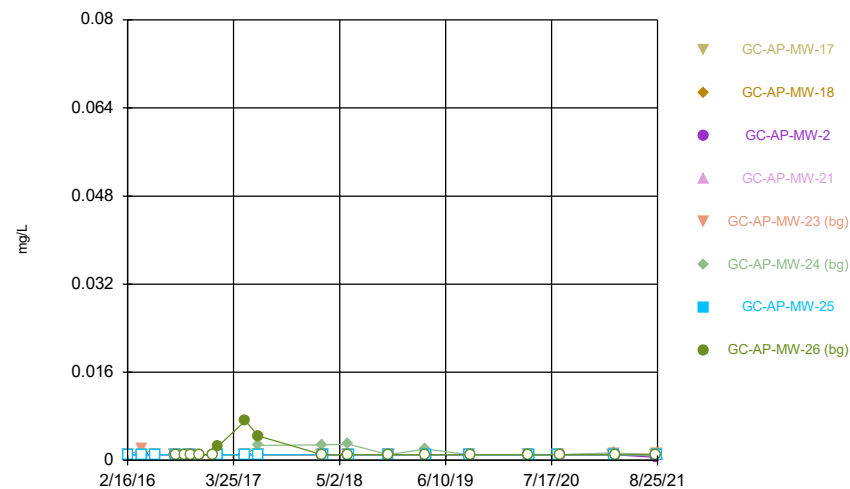
Constituent: pH Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



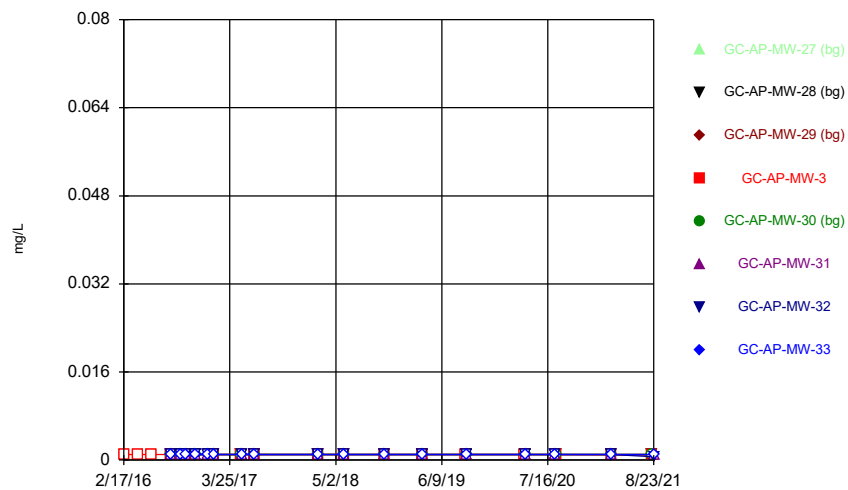
Constituent: Selenium Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



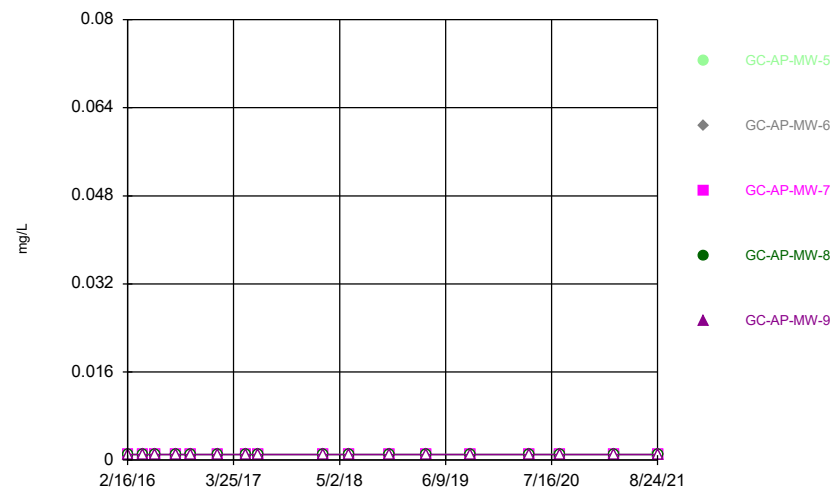
Constituent: Selenium Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



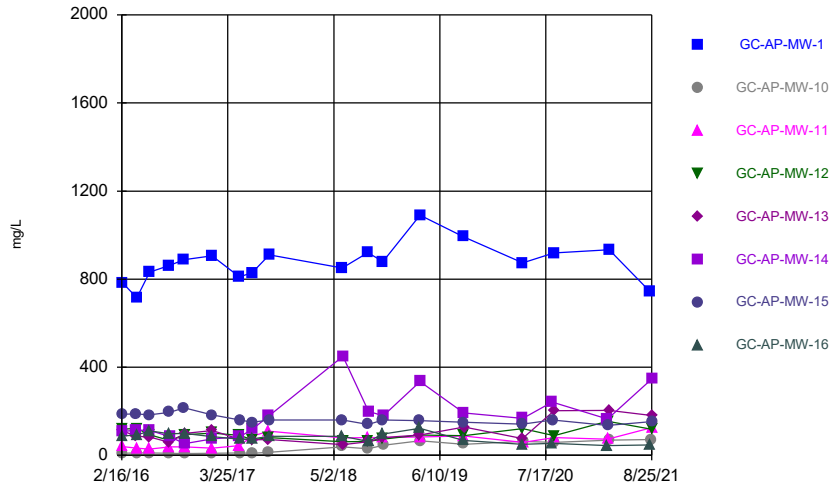
Constituent: Selenium Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



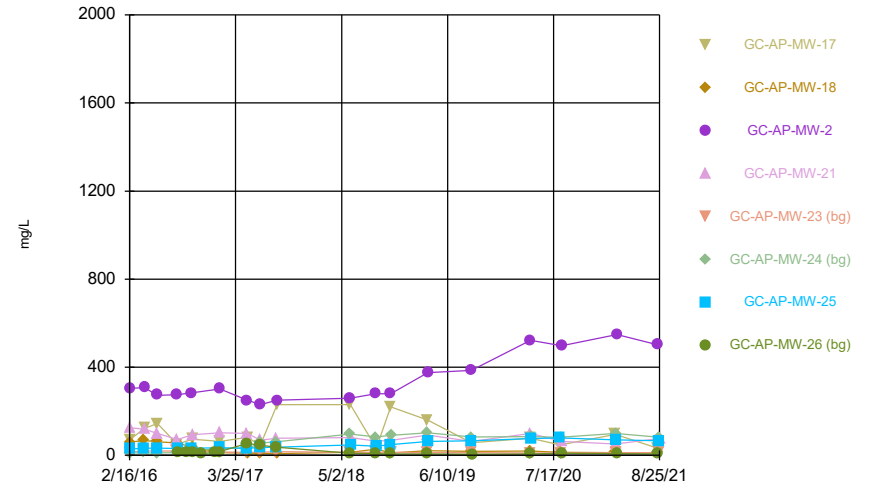
Constituent: Selenium Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



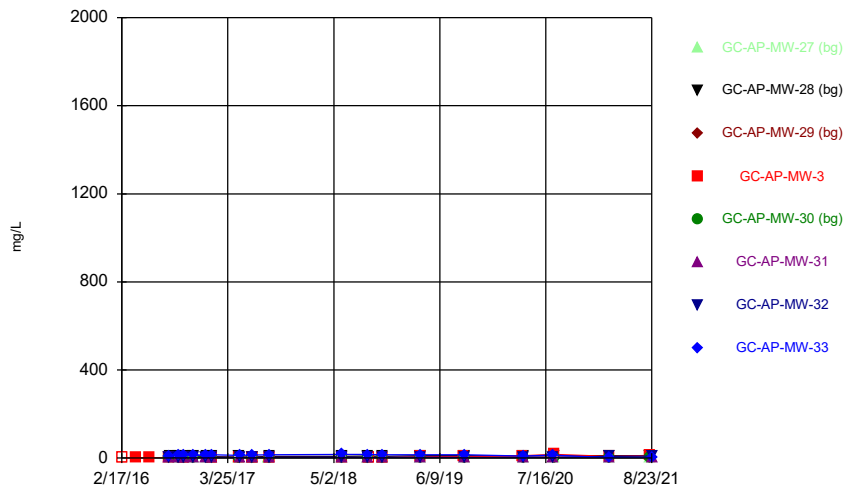
Constituent: Sulfate Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



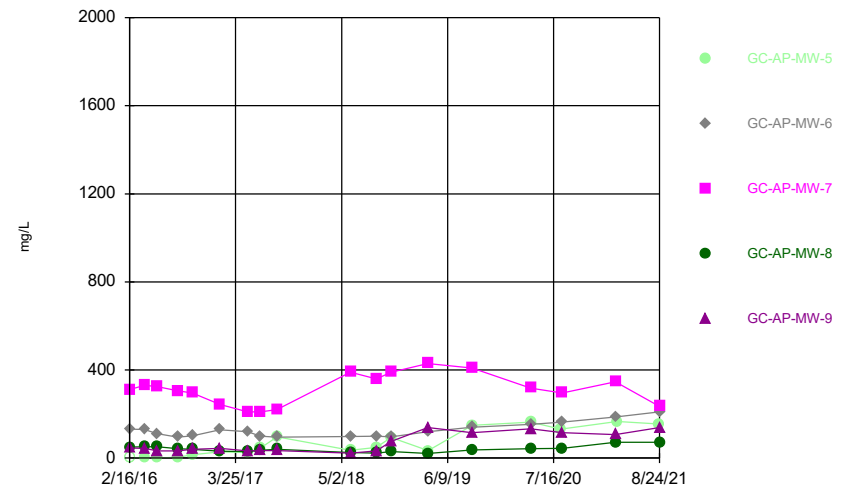
Constituent: Sulfate Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



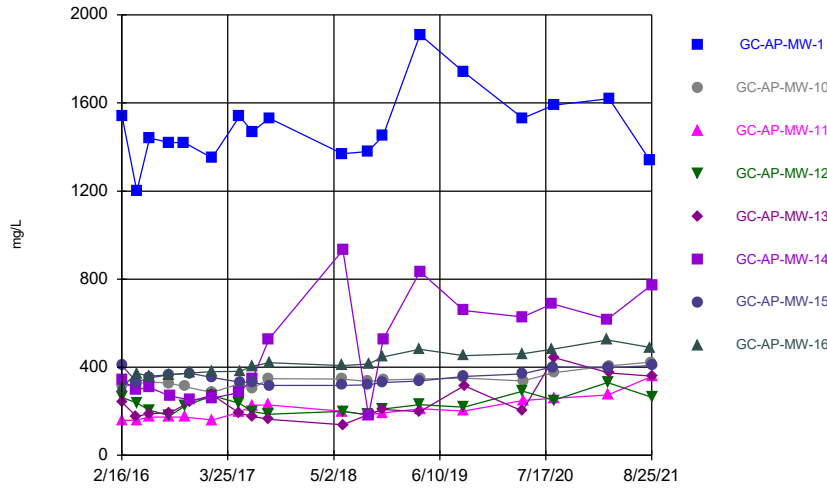
Constituent: Sulfate Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



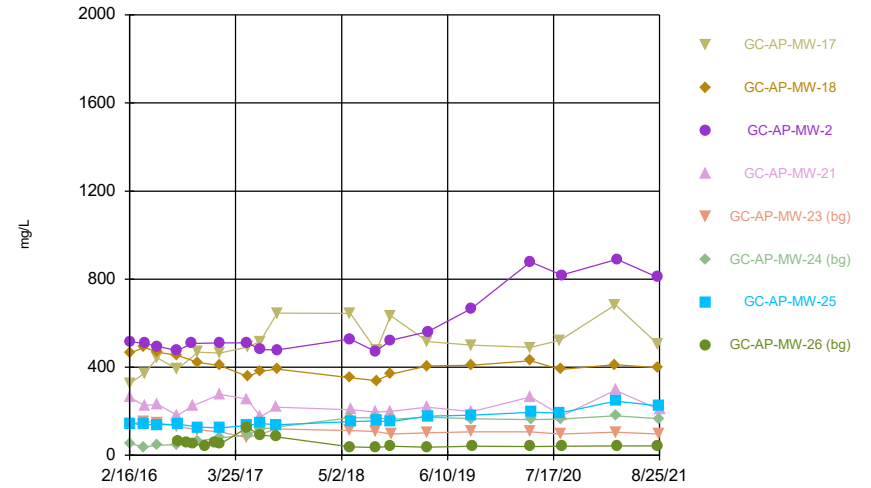
Constituent: Sulfate Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



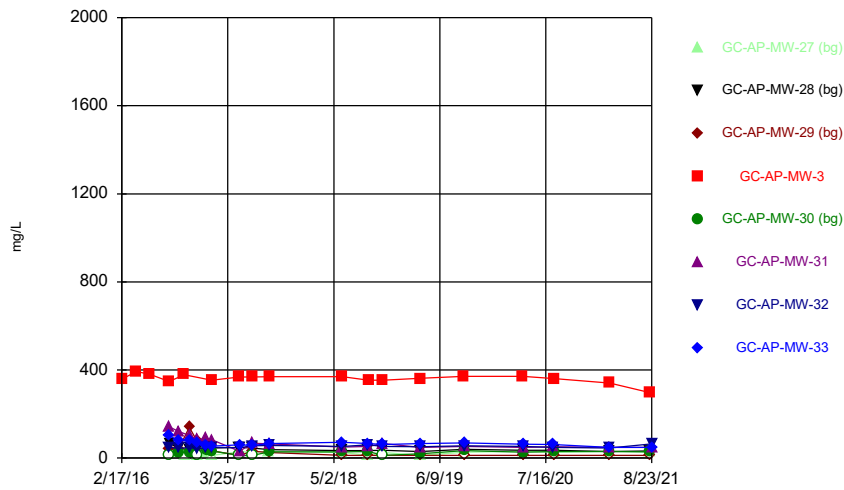
Constituent: TDS Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



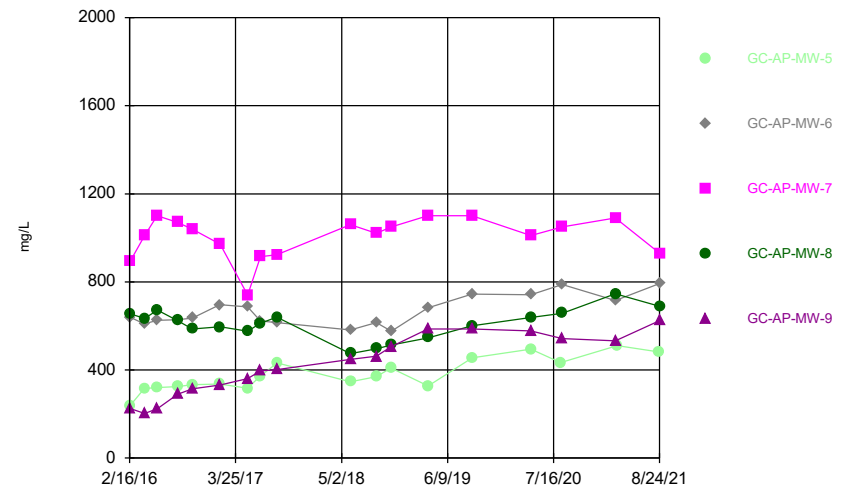
Constituent: TDS Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



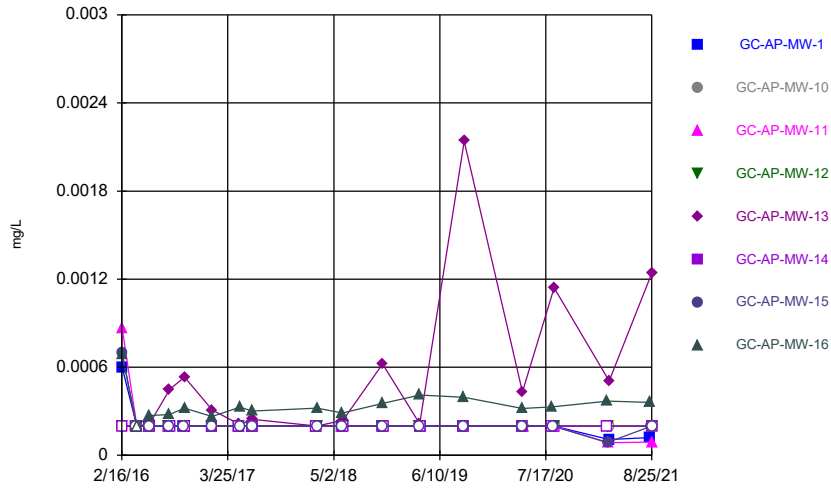
Constituent: TDS Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



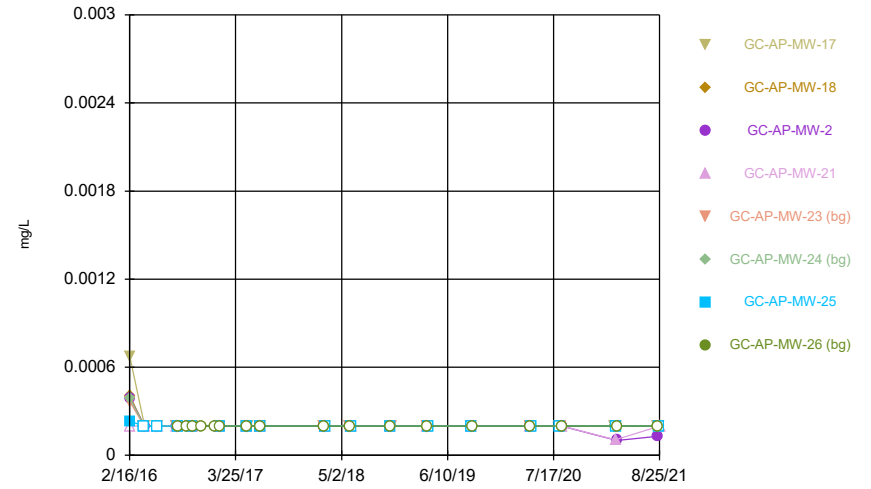
Constituent: TDS Analysis Run 11/19/2021 7:33 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



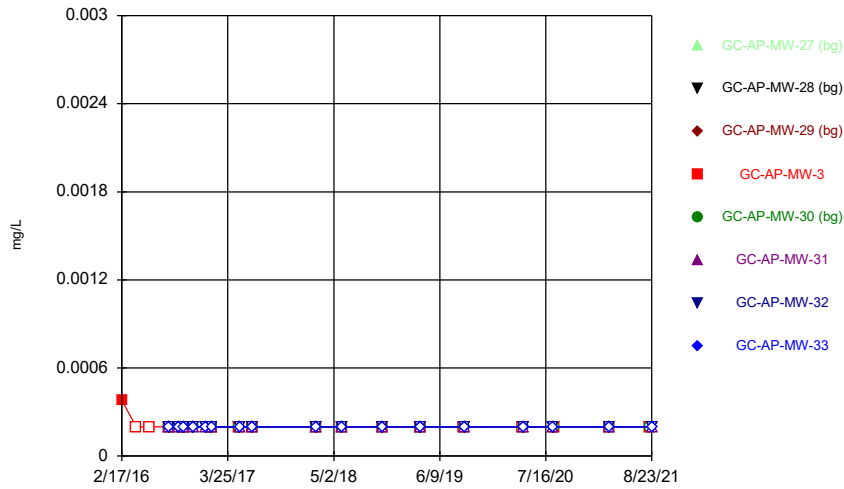
Constituent: Thallium Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



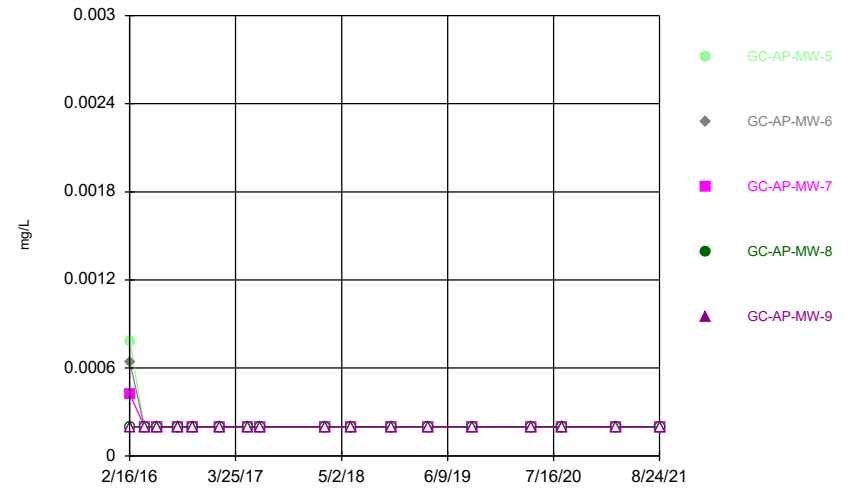
Constituent: Thallium Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 11/19/2021 7:33 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		0.000786 (J)		0.000933 (J)	0.000972 (J)	<0.00102			
2/17/2016	<0.00102		<0.00102				<0.00102	<0.00102	<0.00102
4/12/2016					<0.00102	<0.00102	<0.00102		
4/13/2016	<0.00102	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102
5/31/2016		<0.00102	<0.00102	0.000834 (J)	0.000869 (J)	0.00062 (J)	<0.00102		
6/1/2016	<0.00102							<0.00102	<0.00102
8/15/2016	<0.00102							<0.00102	<0.00102
8/16/2016		<0.00102	<0.00102	0.00118 (J)	0.00128 (J)		<0.00102		
8/17/2016						<0.00102			
10/11/2016	<0.00102						<0.00102		
10/12/2016		<0.00102	<0.00102	0.000899 (J)	0.00114 (J)	<0.00102		<0.00102	<0.00102
1/24/2017	0.000799 (J)						0.00111 (J)	0.000935 (J)	0.000997 (J)
1/25/2017		0.00128 (J)	0.000896 (J)	0.00136 (J)	0.00384	0.00106 (J)			
5/9/2017	<0.00102		<0.00102	<0.00102	0.00323	<0.00102			
5/10/2017		<0.00102					<0.00102	<0.00102	<0.00102
6/27/2017	<0.00102						<0.00102	<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102	0.000683 (J)	0.00406	<0.00102			
2/27/2018	<0.00102	<0.00102	<0.00102			<0.00102			
2/28/2018				0.000656 (J)	0.00199 (J)		<0.00102	<0.00102	<0.00102
6/4/2018	<0.00102								
6/5/2018		<0.00102	<0.00102				<0.00102	<0.00102	<0.00102
6/6/2018				<0.00102	0.00261 (J)	<0.00102			
11/5/2018			<0.00102	<0.00102	0.00275 (J)				
11/6/2018	<0.00102						<0.00102	<0.00102	<0.00102
11/7/2018		<0.00102				<0.00102			
3/26/2019				0.00121 (J)	0.00219 (J)		<0.00102	<0.00102	0.000897 (J)
3/27/2019	<0.00102	<0.00102	<0.00102			<0.00102			
9/9/2019									<0.00102
9/10/2019	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
9/11/2019					0.00261 (J)				
4/20/2020					0.00338		<0.00102	<0.00102	
4/21/2020	<0.00102			<0.00102		<0.00102			<0.00102
4/22/2020		<0.00102	<0.00102						
8/11/2020						<0.00102		<0.00102	<0.00102
8/12/2020							<0.00102		
8/17/2020	<0.00102								
8/18/2020		<0.00102	<0.00102	<0.00102	0.00388				
3/9/2021						<0.00102		<0.00102	<0.00102
3/10/2021			<0.00102	<0.00102			<0.00102		
3/15/2021		<0.00102			0.0016				
3/16/2021	<0.00102								
8/17/2021	<0.00102							<0.00102	<0.00102
8/24/2021		<0.00102							
8/25/2021			<0.00102	<0.00102	0.00263	<0.00102	<0.00102		

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.00102						
2/17/2016	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102			
4/12/2016	<0.00102			<0.00102	<0.00102	<0.00102			
4/13/2016		<0.00102	<0.00102						
6/1/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			
8/15/2016	<0.00102	<0.00102							
8/16/2016			<0.00102	<0.00102	<0.00102				
8/17/2016						<0.00102	<0.00102	<0.00102	<0.00102
9/20/2016							<0.00102	<0.00102	<0.00102
10/11/2016		<0.00102		<0.00102	<0.00102	<0.00102			
10/12/2016	<0.00102		<0.00102				<0.00102	<0.00102	<0.00102
11/15/2016							<0.00102	<0.00102	<0.00102
1/4/2017							<0.00102	<0.00102	<0.00102
1/23/2017							0.001 (J)	0.00083 (J)	
1/24/2017	0.000984 (J)	0.00084 (J)		0.000886 (J)	0.000858 (J)	0.00111 (J)			0.00096 (J)
1/25/2017			0.00107 (J)						
5/9/2017		<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
5/10/2017	<0.00102				<0.00102				
6/27/2017	<0.00102			<0.00102			<0.00102	<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102		<0.00102	<0.00102			
2/27/2018		<0.00102		<0.00102	<0.00102		<0.00102	<0.00102	<0.00102
2/28/2018	<0.00102		<0.00102			<0.00102			
6/4/2018		<0.00102							
6/5/2018	<0.00102			<0.00102	<0.00102		<0.00102	<0.00102	<0.00102
6/6/2018			<0.00102			<0.00102			
11/5/2018			<0.00102						
11/6/2018	<0.00102	<0.00102				<0.00102	<0.00102	<0.00102	<0.00102
11/7/2018				<0.00102	<0.00102				
3/26/2019	<0.00102		0.000964 (J)	<0.00102	<0.00102		<0.00102	0.00137 (J)	0.000975 (J)
3/27/2019		<0.00102				<0.00102			
9/9/2019	<0.00102	<0.00102							
9/10/2019			<0.00102	<0.00102	<0.00102	<0.00102			
9/11/2019							<0.00102	<0.00102	<0.00102
4/21/2020	<0.00102	<0.00102	<0.00102	<0.00102			<0.00102	<0.00102	<0.00102
4/22/2020					<0.00102	<0.00102			
8/11/2020						<0.00102			
8/12/2020	<0.00102			<0.00102	<0.00102				
8/17/2020		<0.00102							
8/18/2020			<0.00102				<0.00102	<0.00102	<0.00102
3/9/2021	<0.00102								
3/10/2021			<0.00102	<0.00102	<0.00102	<0.00102			
3/15/2021							<0.00102	<0.00102	<0.00102
3/16/2021		<0.00102							
8/17/2021	<0.00102	<0.00102							
8/18/2021							<0.00102	<0.00102	<0.00102
8/24/2021				<0.00102	<0.00102	<0.00102			
8/25/2021			<0.00102						

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.00102					<0.00102	<0.00102	<0.00102
4/12/2016		<0.00102					<0.00102	<0.00102	
4/13/2016									<0.00102
5/31/2016							<0.00102	<0.00102	<0.00102
6/1/2016		<0.00102							
8/15/2016		<0.00102							
8/16/2016	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
8/17/2016							<0.00102	<0.00102	<0.00102
9/19/2016				<0.00102	<0.00102	<0.00102			
9/20/2016	<0.00102		<0.00102						
10/11/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
10/12/2016									<0.00102
11/14/2016				<0.00102	<0.00102	<0.00102			
11/15/2016	<0.00102		<0.00102						
1/3/2017				<0.00102	<0.00102	<0.00102			
1/4/2017	<0.00102		<0.00102						
1/23/2017			0.000701 (J)						
1/24/2017		0.000906 (J)		0.000928 (J)	0.00091 (J)		0.000728 (J)	0.000792 (J)	
1/25/2017						0.00112 (J)			0.000839 (J)
1/26/2017	0.00092 (J)								
5/9/2017	<0.00102	<0.00102	<0.00102				<0.00102		
5/10/2017				<0.00102	<0.00102	<0.00102		<0.00102	<0.00102
6/27/2017	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
6/28/2017		<0.00102					<0.00102	<0.00102	<0.00102
2/27/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/4/2018		<0.00102							
6/5/2018	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
11/5/2018					<0.00102				
11/6/2018	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102		
11/7/2018								<0.00102	<0.00102
3/26/2019	<0.00102		0.000854 (J)					0.00141 (J)	<0.00102
3/27/2019		<0.00102		<0.00102	<0.00102	<0.00102	<0.00102		
9/9/2019		<0.00102							
9/10/2019								<0.00102	<0.00102
9/11/2019	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
4/20/2020		<0.00102							
4/21/2020	<0.00102		<0.00102				<0.00102	<0.00102	<0.00102
4/22/2020				<0.00102	<0.00102	<0.00102			
8/11/2020				<0.00102					
8/12/2020					<0.00102	<0.00102	<0.00102		
8/17/2020		<0.00102							
8/18/2020	<0.00102		<0.00102						
8/19/2020								<0.00102	<0.00102
3/9/2021								<0.00102	<0.00102
3/15/2021	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
3/16/2021		<0.00102					<0.00102		
8/17/2021		<0.00102							
8/18/2021	<0.00102		<0.00102						
8/23/2021				<0.00102	<0.00102	<0.00102	<0.00102		
8/24/2021								<0.00102	0.00075 (J)

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.00102	<0.00102
4/13/2016	<0.00102	<0.00102
6/1/2016	<0.00102	<0.00102
8/17/2016	<0.00102	<0.00102
10/12/2016	<0.00102	<0.00102
1/25/2017	0.000833 (J)	0.000847 (J)
5/10/2017	<0.00102	<0.00102
6/28/2017	<0.00102	<0.00102
2/27/2018	<0.00102	<0.00102
6/5/2018	<0.00102	<0.00102
11/7/2018	<0.00102	<0.00102
3/26/2019	<0.00102	<0.00102
9/10/2019	<0.00102	<0.00102
4/21/2020	<0.00102	<0.00102
8/18/2020		<0.00102
8/19/2020	<0.00102	
3/9/2021	<0.00102	<0.00102
8/24/2021	<0.00102	<0.00102

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		0.0123		<0.0002	0.0141	0.0202			
2/17/2016	0.0181		0.00437 (J)				<0.0002	0.0788	0.177
4/12/2016					0.0144	0.0214	<0.0002		
4/13/2016	0.0178	0.0143	0.00695	<0.0002				0.0759	0.271
5/31/2016		0.0125	0.0063	<0.0002	0.00984	0.0156	<0.0002		
6/1/2016	0.016							0.292	0.251
8/15/2016	0.0182							0.105	0.253
8/16/2016		0.0128	0.0068	<0.0002	0.0126		<0.0002		
8/17/2016						0.0153			
10/11/2016	0.0186						<0.0002		
10/12/2016		0.0145	0.00709	<0.0002	0.0117	0.0254		0.0831	0.243
1/24/2017	0.0173						<0.0002	0.0472	0.363
1/25/2017		0.0122	0.00718	<0.0002	0.00316 (J)	0.0194			
5/9/2017	0.0176		0.00819	<0.0002	0.00393 (J)	0.0361			
5/10/2017		0.0135					<0.0002	0.0814	0.499
6/27/2017	0.0165						<0.0002	0.0693	0.489
6/28/2017		0.0131	0.00664	<0.0002	0.00406 (J)	0.022			
2/27/2018	0.0201	0.0146	0.00733			0.0265			
2/28/2018				<0.0002	0.00278 (J)		<0.0002	0.0852	0.532
6/4/2018	0.0195								
6/5/2018		0.0233	0.00637				<0.0002	0.0648	0.382
6/6/2018				<0.0002	0.00352 (J)	0.0372			
11/5/2018			0.00195 (J)	<0.0002	0.00497 (J)				
11/6/2018	0.0189						<0.0002	0.0701	0.299
11/7/2018		0.0152				0.0289			
3/26/2019				<0.0002	0.00251 (J)		<0.0002	0.0952	0.32
3/27/2019	0.0267	0.014	0.00573			0.0264			
9/9/2019									0.356
9/10/2019	0.0226	0.0132	0.00378 (J)	<0.0002		0.0263	<0.0002	0.0786	
9/11/2019					0.00664				
4/20/2020					0.00181 (J)		<0.0002	0.105	
4/21/2020	0.0219			<0.0002		0.0178			0.689
4/22/2020		0.0121	0.00616						
8/11/2020						0.0207		0.0698	0.581
8/12/2020							<0.0002		
8/17/2020	0.0265								
8/18/2020		0.0121	0.00457 (J)	<0.0002	0.00176 (J)				
3/9/2021						0.0292		0.113	0.86
3/10/2021			0.00317	0.000251			0.000349		
3/15/2021		0.0125			0.00207				
3/16/2021	0.0238								
8/17/2021	0.0206							0.0765	0.937
8/24/2021		0.0129							
8/25/2021			0.00518	0.00023	0.00302	0.0224	0.00046		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.0002						
2/17/2016	0.133	0.0142		<0.0002	<0.0002	<0.0002			
4/12/2016	0.134			<0.0002	<0.0002	<0.0002			
4/13/2016		0.0145	<0.0002						
6/1/2016	0.11	0.0112	<0.0002	<0.0002	<0.0002	<0.0002			
8/15/2016	0.116	0.0154							
8/16/2016			<0.0002	<0.0002	<0.0002				
8/17/2016						<0.0002	0.0017 (J)	<0.0002	<0.0002
9/20/2016							0.00283 (J)	<0.0002	<0.0002
10/11/2016		0.0113		<0.0002	<0.0002	<0.0002			
10/12/2016	0.109		<0.0002				0.00218 (J)	<0.0002	<0.0002
11/15/2016							0.00124 (J)	<0.0002	<0.0002
1/4/2017							0.0028 (J)	<0.0002	<0.0002
1/23/2017							0.00257 (J)	<0.0002	
1/24/2017	0.0825	0.0115		<0.0002	<0.0002	<0.0002			<0.0002
1/25/2017			<0.0002						
5/9/2017		0.00989	<0.0002	<0.0002		<0.0002	0.00138 (J)	<0.0002	<0.0002
5/10/2017	0.0776				<0.0002				
6/27/2017	0.0672			<0.0002			<0.0002	<0.0002	<0.0002
6/28/2017		0.00848	<0.0002		<0.0002	<0.0002			
2/27/2018		0.0106		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2018	0.063		<0.0002			<0.0002			
6/4/2018		0.0124							
6/5/2018	0.0661			<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
6/6/2018			<0.0002			<0.0002			
11/5/2018			<0.0002						
11/6/2018	0.0509	0.0085				<0.0002	<0.0002	<0.0002	<0.0002
11/7/2018				<0.0002	<0.0002				
3/26/2019	0.0477		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/27/2019		0.0101				<0.0002			
9/9/2019	0.0498	0.022							
9/10/2019			<0.0002	<0.0002	<0.0002	<0.0002			
9/11/2019							<0.0002	<0.0002	<0.0002
4/21/2020	0.0478	0.013	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002
4/22/2020					<0.0002	<0.0002			
8/11/2020						<0.0002			
8/12/2020	0.0485			<0.0002	<0.0002				
8/17/2020		0.00768							
8/18/2020			<0.0002				<0.0002	<0.0002	<0.0002
3/9/2021	0.0505								
3/10/2021			0.000216	<0.0002	0.00045	0.00033			
3/15/2021							0.000125 (J)	<0.0002	<0.0002
3/16/2021		0.0045							
8/17/2021	0.0509	0.00514							
8/18/2021							0.00016 (J)	<0.0002	9E-05 (J)
8/24/2021				7E-05 (J)	0.00024	0.00028			
8/25/2021			0.00014 (J)						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		0.00668					0.353	<0.0002	<0.0002
4/12/2016		0.00827					0.402	<0.0002	
4/13/2016									<0.0002
5/31/2016							0.33	<0.0002	<0.0002
6/1/2016		0.00768							
8/15/2016		0.00798							
8/16/2016	0.00199 (J)		<0.0002	0.00185 (J)	<0.0002	0.00122 (J)			
8/17/2016							0.369	<0.0002	<0.0002
9/19/2016				0.00121 (J)	<0.0002	<0.0002			
9/20/2016	0.00155 (J)		<0.0002						
10/11/2016	0.00231 (J)	0.008	<0.0002	0.00111 (J)	<0.0002	<0.0002	0.378	<0.0002	
10/12/2016									<0.0002
11/14/2016				<0.0002	<0.0002	<0.0002			
11/15/2016	0.0044 (J)		<0.0002						
1/3/2017				<0.0002	<0.0002	<0.0002			
1/4/2017	0.00123 (J)		<0.0002						
1/23/2017			<0.0002						
1/24/2017		0.00722		<0.0002	<0.0002		0.386	<0.0002	
1/25/2017						<0.0002			<0.0002
1/26/2017	0.00169 (J)								
5/9/2017	<0.0002	0.00766	<0.0002				0.406		
5/10/2017				<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
6/27/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
6/28/2017		0.00745					0.353	<0.0002	<0.0002
2/27/2018	<0.0002	0.00699	<0.0002	<0.0002	<0.0002	<0.0002	0.425	<0.0002	<0.0002
6/4/2018		0.00731							
6/5/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	0.454	<0.0002	<0.0002
11/5/2018					<0.0002				
11/6/2018	<0.0002	0.00685	<0.0002	<0.0002		<0.0002	0.432		
11/7/2018								<0.0002	<0.0002
3/26/2019	<0.0002		<0.0002					<0.0002	<0.0002
3/27/2019		0.00596		<0.0002	<0.0002	<0.0002	0.455		
9/9/2019		0.00806							
9/10/2019								<0.0002	<0.0002
9/11/2019	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	0.406		
4/20/2020		0.00751							
4/21/2020	<0.0002		<0.0002				0.42	<0.0002	<0.0002
4/22/2020				<0.0002	<0.0002	<0.0002			
8/11/2020				<0.0002					
8/12/2020					<0.0002	<0.0002	0.415		
8/17/2020		0.00909							
8/18/2020	<0.0002		<0.0002						
8/19/2020								<0.0002	<0.0002
3/9/2021								0.000303	0.00015 (J)
3/15/2021	<0.0002		<0.0002	0.000111 (J)	0.000142 (J)	<0.0002			
3/16/2021		0.0112					0.473		
8/17/2021		0.0119							
8/18/2021	9E-05 (J)		<0.0002						
8/23/2021				<0.0002	0.00019 (J)	<0.0002	0.368		
8/24/2021								0.00028	0.0001 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.0002	0.00507
4/13/2016	<0.0002	0.00556
6/1/2016	<0.0002	0.00625
8/17/2016	<0.0002	0.00648
10/12/2016	<0.0002	0.00772
1/25/2017	<0.0002	0.00728
5/10/2017	<0.0002	0.00818
6/28/2017	<0.0002	0.00718
2/27/2018	<0.0002	0.00946
6/5/2018	<0.0002	0.00921
11/7/2018	<0.0002	0.0098
3/26/2019	<0.0002	0.00969
9/10/2019	<0.0002	0.0108
4/21/2020	<0.0002	0.0102
8/18/2020		0.0108
8/19/2020	<0.0002	
3/9/2021	0.000248	0.0105
8/24/2021	0.00027	0.00695

Time Series

Constituent: Barium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		0.179		0.0231	0.113	0.0447			
2/17/2016	0.0364		0.105				0.022	0.0368	0.0402
4/12/2016					0.0912	0.043	0.0242		
4/13/2016	0.0344	0.185	0.106	0.02				0.044	0.0637
5/31/2016		0.158	0.0907	0.0175	0.0963	0.0383	0.0224		
6/1/2016	0.0353							0.0357	0.0786
8/15/2016	0.0395							0.0377	0.0634
8/16/2016		0.16	0.0989	0.0182	0.0878		0.0243		
8/17/2016						0.0332			
10/11/2016	0.0455						0.0291		
10/12/2016		0.17	0.113	0.0221	0.112	0.0454		0.0431	0.0995
1/24/2017	0.0428						0.0223	0.0418	0.117
1/25/2017		0.156	0.103	0.0187	0.114	0.0567			
5/9/2017	0.0399		0.125	0.0232	0.1	0.069			
5/10/2017		0.169					0.0281	0.0449	0.158
6/27/2017	0.0348						0.0223	0.042	0.139
6/28/2017		0.144	0.103	0.0178	0.0874	0.0764			
2/27/2018	0.0398	0.172	0.0718			0.0908			
2/28/2018				0.0197	0.0984		0.0271	0.0595	0.199
6/4/2018	0.0314								
6/5/2018		0.173	0.0643				0.0269	0.0471	0.149
6/6/2018				0.0204	0.0951	0.064			
11/5/2018			0.0588	0.0255	0.113				
11/6/2018	0.0348						0.0271	0.0574	0.202
11/7/2018		0.171				0.0575			
3/26/2019				0.0218	0.109		0.0282	0.0626	0.242
3/27/2019	0.0286	0.167	0.0678			0.0768			
9/9/2019									0.319
9/10/2019	0.0283	0.199	0.0651	0.0233		0.0685	0.0348	0.0754	
9/11/2019					0.275				
4/20/2020					0.104		0.0338	0.0921	
4/21/2020	0.0206			0.0325		0.102			0.306
4/22/2020		0.186	0.0967						
8/11/2020						0.0806		0.0948	0.29
8/12/2020							0.0352		
8/17/2020	0.0218								
8/18/2020		0.223	0.0866	0.021	0.199				
3/9/2021						0.125		0.102	0.352
3/10/2021			0.0637	0.0373			0.0365		
3/15/2021		0.261			0.0699				
3/16/2021	0.024								
8/17/2021	0.0211							0.101	0.254
8/24/2021		0.287							
8/25/2021			0.104	0.0323	0.114	0.11	0.0402		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			0.0379						
2/17/2016	0.12	0.0311		0.0285	0.0305	0.0895			
4/12/2016	0.131			0.035	0.0312	0.0966			
4/13/2016		0.0334	0.0291						
6/1/2016	0.114	0.029	0.0254	0.0328	0.0298	0.0872			
8/15/2016	0.113	0.0317							
8/16/2016			0.0385	0.033	0.0308				
8/17/2016						0.0875	0.0476	0.0803	0.336
9/20/2016							0.0436	0.0679	0.341
10/11/2016		0.0339		0.0352	0.042	0.1			
10/12/2016	0.126		0.0486				0.0397	0.0644	0.347
11/15/2016							0.0369	0.0628	0.332
1/4/2017							0.0518	0.0477	0.299
1/23/2017							0.0662	0.0482	
1/24/2017	0.126	0.0276		0.0286	0.0446	0.0856			0.264
1/25/2017			0.0371						
5/9/2017		0.0285	0.0454	0.0257		0.093	0.0691	0.0611	0.322
5/10/2017	0.138				0.0568				
6/27/2017	0.12			0.0246			0.0603	0.0492	0.278
6/28/2017		0.0273	0.0352		0.0663	0.0829			
2/27/2018		0.0292		0.0287	0.101		0.0386	0.0463	0.312
2/28/2018	0.143		0.0376			0.0958			
6/4/2018		0.0298							
6/5/2018	0.128			0.0279	0.108		0.0356	0.0298	0.243
6/6/2018			0.0355			0.0892			
11/5/2018			0.0509						
11/6/2018	0.109	0.0286				0.0807	0.0387	0.0582	0.249
11/7/2018				0.0281	0.1				
3/26/2019	0.117		0.047	0.0295	0.0978		0.0419	0.0499	0.232
3/27/2019		0.0311				0.0901			
9/9/2019	0.101	0.035							
9/10/2019			0.0568	0.0338	0.0967	0.101			
9/11/2019							0.0468	0.0574	0.246
4/21/2020	0.0926	0.0335	0.0763	0.0296			0.0439	0.0827	0.219
4/22/2020					0.0738	0.11			
8/11/2020						0.111			
8/12/2020	0.0815			0.0311	0.0788				
8/17/2020		0.0376							
8/18/2020			0.0517				0.0409	0.0734	0.211
3/9/2021	0.0849								
3/10/2021			0.111	0.0305	0.0873	0.0797			
3/15/2021							0.0351	0.069	0.222
3/16/2021		0.033							
8/17/2021	0.0763	0.0347							
8/18/2021							0.0311	0.0607	0.198
8/24/2021				0.0311	0.07	0.0988			
8/25/2021			0.0865						

Time Series

Constituent: Barium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		0.0896					0.397	0.0455	0.0772
4/12/2016		0.0994					0.434	0.0455	
4/13/2016									0.0886
5/31/2016							0.354	0.0407	0.0823
6/1/2016		0.104							
8/15/2016		0.102							
8/16/2016	0.0527		0.0376	0.0226	0.0134	0.0304			
8/17/2016							0.397	0.0434	0.0789
9/19/2016				0.0202	0.0125	0.0215			
9/20/2016	0.0698		0.0348						
10/11/2016	0.0799	0.11	0.0396	0.0219	0.0128	0.0236	0.485	0.0514	
10/12/2016									0.0883
11/14/2016				0.0215	0.0129	0.0206			
11/15/2016	0.0479		0.0359						
1/3/2017				0.019	0.0116	0.0409			
1/4/2017	0.0513		0.0238						
1/23/2017			0.029						
1/24/2017		0.0942		0.0167	0.0118		0.472	0.0476	
1/25/2017						0.0455			0.067
1/26/2017	0.0674								
5/9/2017	0.0836	0.105	0.0409				0.512		
5/10/2017				0.0246	0.0142	0.0798		0.0543	0.0644
6/27/2017	0.0661		0.0303	0.0238	0.0127	0.0679			
6/28/2017		0.104					0.48	0.0402	0.0582
2/27/2018	0.05	0.0989	0.0383	0.0231	0.0135	0.0856	0.269	0.0463	0.0669
6/4/2018		0.0936							
6/5/2018	0.0433		0.0633	0.0228	0.0126	0.0875	0.27	0.051	0.0672
11/5/2018					0.0123				
11/6/2018	0.0379	0.0936	0.0463	0.0211		0.0726	0.306		
11/7/2018								0.0527	0.0739
3/26/2019	0.0348		0.101					0.0682	0.0796
3/27/2019		0.0951		0.025	0.0134	0.0912	0.251		
9/9/2019		0.111							
9/10/2019								0.0789	0.0887
9/11/2019	0.0404		0.0855	0.0267	0.0147	0.0824	0.323		
4/20/2020		0.109							
4/21/2020	0.0542		0.0485				0.138	0.0728	0.0762
4/22/2020				0.0285	0.0133	0.102			
8/11/2020				0.0264					
8/12/2020					0.0127	0.0601	0.134		
8/17/2020		0.139							
8/18/2020	0.0442		0.0529						
8/19/2020								0.0784	0.0816
3/9/2021								0.0664	0.083
3/15/2021	0.0545		0.0462	0.0316	0.0692	0.0144			
3/16/2021		0.159					0.143		
8/17/2021		0.15							
8/18/2021	0.0554		0.0329						
8/23/2021				0.0317	0.0764	0.0141	0.139		
8/24/2021								0.0737	0.0782

Time Series

Constituent: Barium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	0.117	0.0637
4/13/2016	0.113	0.0552
6/1/2016	0.105	0.0555
8/17/2016	0.105	0.0745
10/12/2016	0.111	0.0897
1/25/2017	0.0963	0.0864
5/10/2017	0.103	0.105
6/28/2017	0.0935	0.0897
2/27/2018	0.0808	0.118
6/5/2018	0.0789	0.111
11/7/2018	0.0855	0.141
3/26/2019	0.0911	0.175
9/10/2019	0.11	0.206
4/21/2020	0.116	0.175
8/18/2020		0.165
8/19/2020	0.119	
3/9/2021	0.15	0.16
8/24/2021	0.122	0.168

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.00102						
2/17/2016	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102			
4/12/2016	<0.00102			<0.00102	<0.00102	<0.00102			
4/13/2016		<0.00102	<0.00102						
6/1/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			
8/15/2016	<0.00102	<0.00102							
8/16/2016			<0.00102	<0.00102	<0.00102				
8/17/2016						<0.00102	0.00161 (J)	<0.00102	<0.00102
9/20/2016							0.00155 (J)	<0.00102	<0.00102
10/11/2016		<0.00102		<0.00102	<0.00102	0.000715 (J)			
10/12/2016	<0.00102		<0.00102				0.00138 (J)	<0.00102	<0.00102
11/15/2016							0.00109 (J)	<0.00102	<0.00102
1/4/2017							0.00141 (J)	<0.00102	<0.00102
1/23/2017							0.00171 (J)	<0.00102	
1/24/2017	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102			<0.00102
1/25/2017			<0.00102						
5/9/2017		<0.00102	<0.00102	<0.00102		<0.00102	0.00226 (J)	<0.00102	<0.00102
5/10/2017	<0.00102				<0.00102				
6/27/2017	<0.00102			<0.00102			0.0017 (J)	<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102		<0.00102	<0.00102			
2/27/2018		<0.00102		<0.00102	<0.00102		0.00147 (J)	<0.00102	<0.00102
2/28/2018	<0.00102		<0.00102			<0.00102			
6/4/2018		<0.00102							
6/5/2018	<0.00102			<0.00102	<0.00102		0.000821 (J)	<0.00102	<0.00102
6/6/2018			<0.00102			<0.00102			
11/5/2018			<0.00102						
11/6/2018	<0.00102	<0.00102				<0.00102	0.000757 (J)	<0.00102	<0.00102
11/7/2018				<0.00102	<0.00102				
3/26/2019	<0.00102		<0.00102	<0.00102	<0.00102		0.00092 (J)	<0.00102	<0.00102
3/27/2019		<0.00102				<0.00102			
9/9/2019	<0.00102	<0.00102							
9/10/2019			<0.00102	<0.00102	<0.00102	<0.00102			
9/11/2019							<0.00102	<0.00102	<0.00102
4/21/2020	<0.00102	<0.00102	<0.00102	<0.00102			0.000756 (J)	<0.00102	<0.00102
4/22/2020					<0.00102	<0.00102			
8/11/2020						<0.00102			
8/12/2020	<0.00102			<0.00102	<0.00102				
8/17/2020		<0.00102							
8/18/2020			<0.00102				0.000828 (J)	<0.00102	<0.00102
3/9/2021	<0.00102								
3/10/2021			<0.00102	<0.00102	<0.00102	<0.00102			
3/15/2021							0.000453 (J)	<0.00102	<0.00102
3/16/2021		<0.00102							
8/17/2021	<0.00102	<0.00102							
8/18/2021							0.00041 (J)	<0.00102	<0.00102
8/24/2021				<0.00102	<0.00102	<0.00102			
8/25/2021			<0.00102						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.00102					<0.00102	<0.00102	<0.00102
4/12/2016		<0.00102					<0.00102	<0.00102	
4/13/2016									<0.00102
5/31/2016							<0.00102	<0.00102	<0.00102
6/1/2016		<0.00102							
8/15/2016		<0.00102							
8/16/2016	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
8/17/2016							<0.00102	<0.00102	<0.00102
9/19/2016				<0.00102	<0.00102	<0.00102			
9/20/2016	<0.00102		<0.00102						
10/11/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
10/12/2016									<0.00102
11/14/2016				<0.00102	<0.00102	<0.00102			
11/15/2016	<0.00102		<0.00102						
1/3/2017				<0.00102	<0.00102	<0.00102			
1/4/2017	<0.00102		<0.00102						
1/23/2017			<0.00102						
1/24/2017		<0.00102		<0.00102	<0.00102		<0.00102	<0.00102	
1/25/2017						<0.00102			<0.00102
1/26/2017	<0.00102								
5/9/2017	<0.00102	<0.00102	<0.00102				<0.00102		
5/10/2017				<0.00102	<0.00102	<0.00102		<0.00102	<0.00102
6/27/2017	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
6/28/2017		<0.00102					<0.00102	<0.00102	<0.00102
2/27/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/4/2018		<0.00102							
6/5/2018	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
11/5/2018					<0.00102				
11/6/2018	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102		
11/7/2018								<0.00102	<0.00102
3/26/2019	<0.00102		<0.00102					<0.00102	<0.00102
3/27/2019		<0.00102		<0.00102	<0.00102	<0.00102	<0.00102		
9/9/2019		<0.00102							
9/10/2019								<0.00102	<0.00102
9/11/2019	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
4/20/2020		<0.00102							
4/21/2020	<0.00102		<0.00102				<0.00102	<0.00102	<0.00102
4/22/2020				<0.00102	<0.00102	<0.00102			
8/11/2020				<0.00102					
8/12/2020					<0.00102	<0.00102	<0.00102		
8/17/2020		<0.00102							
8/18/2020	<0.00102		<0.00102						
8/19/2020								<0.00102	<0.00102
3/9/2021								<0.00102	<0.00102
3/15/2021	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
3/16/2021		<0.00102					<0.00102		
8/17/2021		<0.00102							
8/18/2021	<0.00102		<0.00102						
8/23/2021				<0.00102	<0.00102	<0.00102	<0.00102		
8/24/2021								<0.00102	<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.00102	<0.00102
4/13/2016	<0.00102	<0.00102
6/1/2016	<0.00102	<0.00102
8/17/2016	<0.00102	<0.00102
10/12/2016	<0.00102	<0.00102
1/25/2017	<0.00102	<0.00102
5/10/2017	<0.00102	<0.00102
6/28/2017	<0.00102	<0.00102
2/27/2018	<0.00102	<0.00102
6/5/2018	<0.00102	<0.00102
11/7/2018	<0.00102	<0.00102
3/26/2019	<0.00102	<0.00102
9/10/2019	<0.00102	<0.00102
4/21/2020	<0.00102	<0.00102
8/18/2020		<0.00102
8/19/2020	<0.00102	
3/9/2021	<0.00102	<0.00102
8/24/2021	<0.00102	<0.00102

Time Series

Constituent: Boron (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		1.44		0.273	0.26	0.739			
2/17/2016	0.219		0.581				0.454	1.47	1.66
4/12/2016					0.26	0.733	0.444		
4/13/2016	0.211	0.373	0.61	0.276				1.48	1.64
5/31/2016		1.26	0.615	0.291	0.318	0.603	0.424		
6/1/2016	0.2							1.22	1.66
8/15/2016	0.211							1.31	1.83
8/16/2016		1.34	0.554	0.268	0.322		0.438		
8/17/2016						0.509			
10/11/2016	0.23						0.456		
10/12/2016		1.34	0.537	0.252	0.244	0.569		1.37	2.12
1/24/2017	0.218						0.458	1.38	1.94
1/25/2017		1.38	0.562	0.167	0.188	0.671			
5/9/2017	0.235		0.528	0.32	0.281	0.622			
5/10/2017		1.23					0.486	1.41	1.99
6/27/2017	0.206						0.454	1.43	2.18
6/28/2017		1.05	0.313	0.231	0.153	0.695			
8/29/2017		1.17	0.241	0.191	0.112	1			
8/30/2017	0.138						0.441	1.36	1.71
6/4/2018	0.242								
6/5/2018		1.31	0.311				0.543	1.36	1.76
6/6/2018				0.26	0.244	1.01			
11/5/2018			0.262	0.127	0.104				
11/6/2018	0.247						0.614	1.47	1.74
11/7/2018		1.26				0.908			
3/26/2019				0.111	0.213		0.697	1.38	1.74
3/27/2019	0.488	1.11	0.298			1.33			
9/9/2019									2.33
9/10/2019	0.398	1.27	0.141	0.153		1.49	0.73	1.69	
9/11/2019					0.535				
4/20/2020					0.642		0.791	1.83	
4/21/2020	0.347			0.872		1.55			1.97
4/22/2020		1.23	0.447						
8/11/2020						1.44		1.93	2.03
8/12/2020							0.813		
8/17/2020	0.496								
8/18/2020		1.37	0.358	0.748	0.501				
3/9/2021						1.81		1.94	2.45
3/10/2021			0.502	0.389			0.825		
3/15/2021		1.79			0.523				
3/16/2021	0.313								
8/17/2021	0.281							1.98	2.18
8/24/2021		1.93							
8/25/2021			0.601	0.393	0.438	1.33	0.83		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			0.286						
2/17/2016	1.94	0.146		0.0271 (J)	<0.1015	0.0922 (J)			
4/12/2016	2.03			<0.1015	<0.1015	0.0935 (J)			
4/13/2016		0.125	0.26						
6/1/2016	1.74	0.114	0.283	<0.1015	<0.1015	0.0826 (J)			
8/15/2016	1.66	0.128							
8/16/2016			0.292	<0.1015	<0.1015				
8/17/2016						0.092 (J)	<0.1015	<0.1015	<0.1015
9/20/2016							<0.1015	<0.1015	<0.1015
10/11/2016		0.129		0.024 (J)	<0.1015	0.0976 (J)			
10/12/2016	1.77		0.254				<0.1015	0.02 (J)	<0.1015
11/15/2016							<0.1015	<0.1015	<0.1015
1/4/2017							<0.1015	<0.1015	<0.1015
1/23/2017							0.0217 (J)	0.0287 (J)	
1/24/2017	1.49	0.124		0.0333 (J)	<0.1015	0.0877 (J)			0.0331 (J)
1/25/2017			0.133						
5/9/2017		0.121	0.304	<0.1015		0.0953 (J)	<0.1015	<0.1015	<0.1015
5/10/2017	1.65				<0.1015				
6/27/2017	1.66			<0.1015			<0.1015	<0.1015	<0.1015
6/28/2017		0.111	0.243		<0.1015	0.0835 (J)			
8/29/2017			0.249	<0.1015	<0.1015	0.0914 (J)	<0.1015	<0.1015	
8/30/2017	1.53	0.0915 (J)							<0.1015
6/4/2018		0.134							
6/5/2018	1.36			<0.1015	<0.1015		<0.1015	<0.1015	<0.1015
6/6/2018			0.245			0.102			
11/5/2018			0.151						
11/6/2018	1.48	0.131				0.0995 (J)	<0.1015	<0.1015	<0.1015
11/7/2018				<0.1015	<0.1015				
3/26/2019	1.63		0.0834 (J)	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015
3/27/2019		0.138				0.113			
9/9/2019	1.73	0.157							
9/10/2019			0.16	<0.1015	<0.1015	0.105			
9/11/2019							<0.1015	<0.1015	<0.1015
4/21/2020	1.51	0.14	0.586	<0.1015			<0.1015	<0.1015	<0.1015
4/22/2020					<0.1015	0.104			
8/11/2020						0.11			
8/12/2020	1.53			<0.1015	<0.1015				
8/17/2020		0.152							
8/18/2020			0.211				<0.1015	<0.1015	<0.1015
3/9/2021	1.52								
3/10/2021			0.528	<0.1015	<0.1015	0.146			
3/15/2021							<0.1015	<0.1015	<0.1015
3/16/2021		0.134							
8/17/2021	1.45	0.131							
8/18/2021							<0.1015	<0.1015	<0.1015
8/24/2021				<0.1015	<0.1015	0.115			
8/25/2021			0.288						

Time Series

Constituent: Boron (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		0.0288 (J)					0.478	2.12	0.503
4/12/2016		0.0293 (J)					0.467	2.06	
4/13/2016									0.478
5/31/2016							0.443	1.97	0.452
6/1/2016		0.0279 (J)							
8/15/2016		0.0332 (J)							
8/16/2016	<0.1015		<0.1015	<0.1015	<0.1015	0.0268 (J)			
8/17/2016							0.477	2.01	0.492
9/19/2016				<0.1015	<0.1015	0.0225 (J)			
9/20/2016	<0.1015		<0.1015						
10/11/2016	<0.1015	0.0328 (J)	<0.1015	<0.1015	<0.1015	0.0304 (J)	0.489	1.91	
10/12/2016									0.487
11/14/2016				<0.1015	<0.1015	0.0355 (J)			
11/15/2016	0.0229 (J)		<0.1015						
1/3/2017				<0.1015	<0.1015	0.0304 (J)			
1/4/2017	<0.1015		<0.1015						
1/23/2017			<0.1015						
1/24/2017		0.0262 (J)		0.0282 (J)	<0.1015		0.475	1.62	
1/25/2017						<0.1015			0.529
1/26/2017	<0.1015								
5/9/2017	<0.1015	0.0298 (J)	<0.1015				0.479		
5/10/2017				<0.1015	<0.1015	<0.1015		1.62	0.533
6/27/2017	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015			
6/28/2017		0.0226 (J)					0.448	1.71	0.501
8/29/2017								1.7	0.51
8/30/2017	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	0.407		
6/4/2018		0.0296 (J)							
6/5/2018	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015	0.489	1.56	0.605
11/5/2018					<0.1015				
11/6/2018	<0.1015	0.0268 (J)	<0.1015	<0.1015		<0.1015	0.508		
11/7/2018								1.6	0.677
3/26/2019	<0.1015		<0.1015					1.63	0.727
3/27/2019		0.0316 (J)		<0.1015	<0.1015	<0.1015	0.502		
9/9/2019		0.035 (J)							
9/10/2019								1.83	0.764
9/11/2019	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015	0.595		
4/20/2020		<0.1015							
4/21/2020	<0.1015		<0.1015				0.72	1.77	0.793
4/22/2020				<0.1015	<0.1015	<0.1015			
8/11/2020				<0.1015					
8/12/2020					<0.1015	<0.1015	0.695		
8/17/2020		0.0636 (J)							
8/18/2020	<0.1015		<0.1015						
8/19/2020								1.86	0.561
3/9/2021								1.49	0.397
3/15/2021	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015			
3/16/2021		0.0445 (J)					0.694		
8/17/2021		0.0518 (J)							
8/18/2021	<0.1015		<0.1015						
8/23/2021				<0.1015	<0.1015	<0.1015	0.628		
8/24/2021								1.36	0.216

Time Series

Constituent: Boron (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	1.54	0.412
4/13/2016	1.56	0.376
6/1/2016	1.49	0.338
8/17/2016	1.57	0.412
10/12/2016	1.65	0.46
1/25/2017	1.89	0.586
5/10/2017	1.94	0.661
6/28/2017	1.72	0.673
8/29/2017	1.63	0.723
6/5/2018	1.73	0.954
11/7/2018	1.8	1.11
3/26/2019	1.81	1.14
9/10/2019	1.82	1.23
4/21/2020	1.89	1.27
8/18/2020		1.24
8/19/2020	1.94	
3/9/2021	1.57	1.12
8/24/2021	1.23	1.14

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		<0.0002		<0.0002	<0.0002	<0.0002			
2/17/2016	<0.0002		<0.0002				<0.0002	<0.0002	<0.0002
4/12/2016					<0.0002	<0.0002	<0.0002		
4/13/2016	<0.0002	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002
5/31/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
6/1/2016	<0.0002							<0.0002	<0.0002
8/15/2016	<0.0002							<0.0002	<0.0002
8/16/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		
8/17/2016						<0.0002			
10/11/2016	<0.0002						<0.0002		
10/12/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
1/24/2017	<0.0002						<0.0002	<0.0002	<0.0002
1/25/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
5/9/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
5/10/2017		<0.0002					<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002						<0.0002	<0.0002	<0.0002
6/28/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/27/2018	<0.0002	<0.0002	<0.0002			<0.0002			
2/28/2018				<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
6/4/2018	<0.0002								
6/5/2018		<0.0002	<0.0002				<0.0002	<0.0002	<0.0002
6/6/2018				<0.0002	<0.0002	<0.0002			
11/5/2018			<0.0002	<0.0002	<0.0002				
11/6/2018	<0.0002						<0.0002	<0.0002	<0.0002
11/7/2018		<0.0002				<0.0002			
3/26/2019				<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/27/2019	<0.0002	<0.0002	<0.0002			<0.0002			
9/9/2019									<0.0002
9/10/2019	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
9/11/2019					<0.0002				
4/20/2020					<0.0002		<0.0002	<0.0002	
4/21/2020	<0.0002			<0.0002		<0.0002			<0.0002
4/22/2020		<0.0002	<0.0002						
8/11/2020						<0.0002		<0.0002	<0.0002
8/12/2020							<0.0002		
8/17/2020	<0.0002								
8/18/2020		<0.0002	<0.0002	<0.0002	<0.0002				
3/9/2021						<0.0002		<0.0002	<0.0002
3/10/2021			0.000347	<0.0002			0.00012 (J)		
3/15/2021		<0.0002			<0.0002				
3/16/2021	<0.0002								
8/17/2021	<0.0002							<0.0002	<0.0002
8/24/2021		<0.0002							
8/25/2021			<0.0002	<0.0002	<0.0002	<0.0002	0.00014 (J)		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.0002						
2/17/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			
4/12/2016	<0.0002			<0.0002	<0.0002	<0.0002			
4/13/2016		<0.0002	<0.0002						
6/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/15/2016	<0.0002	<0.0002							
8/16/2016			<0.0002	<0.0002	<0.0002				
8/17/2016						<0.0002	<0.0002	0.000211 (J)	0.000742 (J)
9/20/2016							<0.0002	<0.0002	0.000857 (J)
10/11/2016		<0.0002		<0.0002	<0.0002	<0.0002			
10/12/2016	<0.0002		<0.0002				<0.0002	<0.0002	0.000912 (J)
11/15/2016							<0.0002	0.000216 (J)	0.000821 (J)
1/4/2017							<0.0002	<0.0002	0.000718 (J)
1/23/2017							<0.0002	0.000231 (J)	
1/24/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			0.000716 (J)
1/25/2017			<0.0002						
5/9/2017		<0.0002	<0.0002	<0.0002		<0.0002	0.000706 (J)	<0.0002	0.000746 (J)
5/10/2017	<0.0002				<0.0002				
6/27/2017	<0.0002			<0.0002			0.000429 (J)	<0.0002	0.00065 (J)
6/28/2017		<0.0002	<0.0002		<0.0002	<0.0002			
2/27/2018		<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	0.000752 (J)
2/28/2018	<0.0002		<0.0002			<0.0002			
6/4/2018		<0.0002							
6/5/2018	<0.0002			<0.0002	<0.0002		<0.0002	<0.0002	0.000731 (J)
6/6/2018			<0.0002			<0.0002			
11/5/2018			<0.0002						
11/6/2018	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	0.000646 (J)
11/7/2018				<0.0002	<0.0002				
3/26/2019	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	0.000582 (J)
3/27/2019		<0.0002				<0.0002			
9/9/2019	<0.0002	<0.0002							
9/10/2019			<0.0002	<0.0002	<0.0002	<0.0002			
9/11/2019							<0.0002	<0.0002	0.000573 (J)
4/21/2020	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	0.00052 (J)
4/22/2020					<0.0002	<0.0002			
8/11/2020						<0.0002			
8/12/2020	<0.0002			<0.0002	<0.0002				
8/17/2020		<0.0002							
8/18/2020			<0.0002				<0.0002	<0.0002	0.000476 (J)
3/9/2021	<0.0002								
3/10/2021			7.02E-05 (J)	<0.0002	<0.0002	<0.0002			
3/15/2021							<0.0002	0.0001 (J)	0.000536
3/16/2021		0.00013 (J)							
8/17/2021	<0.0002	<0.0002							
8/18/2021							<0.0002	0.00018 (J)	0.00042
8/24/2021				<0.0002	<0.0002	9E-05 (J)			
8/25/2021			<0.0002						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.0002					<0.0002	<0.0002	<0.0002
4/12/2016		<0.0002					<0.0002	<0.0002	
4/13/2016									<0.0002
5/31/2016							<0.0002	<0.0002	<0.0002
6/1/2016		<0.0002							
8/15/2016		<0.0002							
8/16/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
8/17/2016							<0.0002	<0.0002	<0.0002
9/19/2016				<0.0002	<0.0002	<0.0002			
9/20/2016	<0.0002		<0.0002						
10/11/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/12/2016									<0.0002
11/14/2016				<0.0002	<0.0002	<0.0002			
11/15/2016	<0.0002		<0.0002						
1/3/2017				<0.0002	<0.0002	<0.0002			
1/4/2017	<0.0002		<0.0002						
1/23/2017			<0.0002						
1/24/2017		<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	
1/25/2017						<0.0002			<0.0002
1/26/2017	0.000228 (J)								
5/9/2017	0.000277 (J)	<0.0002	<0.0002				<0.0002		
5/10/2017				<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
6/27/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
6/28/2017		<0.0002					<0.0002	<0.0002	<0.0002
2/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018		<0.0002							
6/5/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018					<0.0002				
11/6/2018	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		
11/7/2018								<0.0002	<0.0002
3/26/2019	<0.0002		<0.0002					<0.0002	<0.0002
3/27/2019		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
9/9/2019		<0.0002							
9/10/2019								<0.0002	<0.0002
9/11/2019	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
4/20/2020		<0.0002							
4/21/2020	<0.0002		<0.0002				<0.0002	<0.0002	<0.0002
4/22/2020				<0.0002	<0.0002	<0.0002			
8/11/2020				<0.0002					
8/12/2020					<0.0002	<0.0002	<0.0002		
8/17/2020		<0.0002							
8/18/2020	<0.0002		<0.0002						
8/19/2020								<0.0002	<0.0002
3/9/2021								0.00278	<0.0002
3/15/2021	0.000204		8.19E-05 (J)	<0.0002	<0.0002	<0.0002			
3/16/2021		<0.0002					<0.0002		
8/17/2021		<0.0002							
8/18/2021	0.00019 (J)		8E-05 (J)						
8/23/2021				<0.0002	<0.0002	<0.0002	<0.0002		
8/24/2021								0.00018 (J)	<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.0002	<0.0002
4/13/2016	<0.0002	<0.0002
6/1/2016	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002
10/12/2016	<0.0002	<0.0002
1/25/2017	<0.0002	<0.0002
5/10/2017	<0.0002	<0.0002
6/28/2017	<0.0002	<0.0002
2/27/2018	<0.0002	<0.0002
6/5/2018	<0.0002	<0.0002
11/7/2018	<0.0002	<0.0002
3/26/2019	<0.0002	<0.0002
9/10/2019	<0.0002	<0.0002
4/21/2020	<0.0002	<0.0002
8/18/2020		<0.0002
8/19/2020	<0.0002	
3/9/2021	0.000241	<0.0002
8/24/2021	<0.0002	<0.0002

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		76.3		34.6	29.8	44.4			
2/17/2016	204		18.6				47.7	57	30.7
4/12/2016					23.3	43.2	44.4		
4/13/2016	152	30.5	17.8	32.2				62.5	39.5
5/31/2016		65.9	17.7	28.8	25.9	43	45.3		
6/1/2016	183							54.4	47.7
8/15/2016	197							56.2	45.6
8/16/2016		65.6	18.4	24	25.5		49.4		
8/17/2016						35.9			
10/11/2016	186						52.7		
10/12/2016		63.4	17.3	27.8	29.5	31.1		56.6	57.6
1/24/2017	193						49.4	59.1	69.4
1/25/2017		64.2	16.6	33.7	33.6	42.7			
5/9/2017	184		18	35.5	30.4	48.1			
5/10/2017		62.6					47.4	62.5	66.2
6/27/2017	184						44.9	63.6	63.8
6/28/2017		60.8	22.6	28	26	55			
8/29/2017		61.4	23.9	26.4	22.3	83.6			
8/30/2017	182						44.4	65.7	75.1
6/4/2018	157								
6/5/2018		65.5	25.7				45.1	66.8	77.4
6/6/2018				30.1	23.7	167			
9/10/2018	219		27.2						
9/11/2018		66.1		27.4	26.8		48.5		
9/12/2018						109		76.3	58.9
11/5/2018			24.1	28.8	29.4				
11/6/2018	186						49.2	77.4	81.6
11/7/2018		68.5				105			
3/26/2019				33.7	34.1		54	90	84.7
3/27/2019	73.8	71.8	31			162			
9/9/2019									66.4
9/10/2019	147	69.3	27.7	30.5		125	57.2	86.3	
9/11/2019					53.9				
4/20/2020					40.3		61	90.8	
4/21/2020	90.5			51		113			74.4
4/22/2020		62.9	36.7						
8/11/2020						118		101	73
8/12/2020							72.2		
8/17/2020	81.5								
8/18/2020		74.4	37.6	42.9	95.3				
3/9/2021						115		101	118
3/10/2021			39.9	55.1			67.4		
3/15/2021		73.8			68.9				
3/16/2021	109								
8/17/2021	103							103	78.3
8/24/2021		83.4							
8/25/2021			57.6	45.2	74.2	134	74.8		

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			40.4						
2/17/2016	89.6	75		38.7	6.54	10.2			
4/12/2016	96.2			42.7	6.15	10			
4/13/2016		70.2	32.2						
6/1/2016	90.2	71.2	29.3	41.8	5.7	9.87			
8/15/2016	84.4	72.2							
8/16/2016			25.4	40.9	6.77				
8/17/2016						8.88	5.88	1.1	7.74
9/20/2016							5.95	0.771	2.43
10/11/2016		73.8		38.1	8.84	9.22			
10/12/2016	82.9		30.7				6.1	0.711	2.46
11/15/2016							6.28	0.641	2.28
1/4/2017							4.97	0.797	2.7
1/23/2017							5.17	0.655	
1/24/2017	76.4	72.2		27.7	12.8	8.72			4.19
1/25/2017			36.8						
5/9/2017		66.4	36.1	29.3		8.56	15.7	0.538	3.28
5/10/2017	77.4				12.4				
6/27/2017	75.4			28.6			14.2	0.413 (J)	3.76
6/28/2017		65.4	26.9		17.9	7.16			
8/29/2017			29.4	32.3	19	8.32	11.1	0.504	
8/30/2017	78	67.8							2.31
6/4/2018		68.3							
6/5/2018	66.3			34.5	30		3.93	0.339 (J)	2.76
6/6/2018			30.2			9.05			
9/10/2018		73.9	28.8						
9/11/2018				32	28.7		3.76	0.776	2.04
9/12/2018	67.8					8.98			
11/5/2018			29.7						
11/6/2018	72.7	75.1				9.21	4.81	0.746	2
11/7/2018				30.3	30.7				
3/26/2019	91.5		32.4	31.3	32.3		3.18	0.526	2.13
3/27/2019		96.1				9.77			
9/9/2019	83.2	111							
9/10/2019			28.4	30.7	32.8	9.28			
9/11/2019							3.98	0.638	1.98
4/21/2020	81.8	133	43.1	30.8			3.83	1.15	2.41
4/22/2020					31.4	11.3			
8/11/2020						10.7			
8/12/2020	85.9			28	35.8				
8/17/2020		156							
8/18/2020			25.5				4.58	0.884	2.23
3/9/2021	82								
3/10/2021			44.9	26.6	42.8	29.3			
3/15/2021							4.67	0.745	1.73
3/16/2021		145							
8/17/2021	77.4	143							
8/18/2021							4.84	1.11	1.94
8/24/2021				26.3	36.5	25.9			
8/25/2021			31						

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		106					59.8	128	158
4/12/2016		95.2					56.1	115	
4/13/2016									151
5/31/2016							56.6	118	158
6/1/2016		86.1							
8/15/2016		89.7							
8/16/2016	2.02		1.24	39.5	9.33	5.54			
8/17/2016							61	120	152
9/19/2016				34.5	9.26	3.01			
9/20/2016	1.22		1.11						
10/11/2016	1.48	90.6	1.22	32.4	9.31	2.74	61.3	119	
10/12/2016									150
11/14/2016				26.5	9.17	2.47			
11/15/2016	1.36		1.34						
1/3/2017				22.6	9.66	2.94			
1/4/2017	1.11		2.39						
1/23/2017			1.83						
1/24/2017		94.2		19.5	9.67		61	110	
1/25/2017						2.91			137
1/26/2017	1.03								
5/9/2017	0.289 (J)	90.3	0.823				61.7		
5/10/2017				15.7	9.81	2.27		104	111
6/27/2017	0.292 (J)		0.956	13.8	9.88	2.2			
6/28/2017		80.7					66.1	98	108
8/29/2017								108	113
8/30/2017	0.336 (J)	84	1.04	11.1	10.3	2.26	78.9		
6/4/2018		98.8							
6/5/2018	0.2 (J)		1.18	9.12	11.4	2.97	64.8	121	186
9/11/2018	0.171 (J)		1.5	7.5	10.5	2.6	72.2	119	209
9/12/2018		109							
11/5/2018					10.5				
11/6/2018	0.193 (J)	110	1.64	7.39		2.42	78.9		
11/7/2018								124	175
3/26/2019	0.223 (J)		1.33					148	193
3/27/2019		111		7.65	11.6	2.75	69.1		
9/9/2019		98.5							
9/10/2019								164	188
9/11/2019	0.158 (J)		0.925	6.96	9.95	2.17	90.8		
4/20/2020		91.2							
4/21/2020	0.287 (J)		0.864				93	142	155
4/22/2020				5.92	9.87	3.15			
8/11/2020				7.46					
8/12/2020					9.48	1.78	92.2		
8/17/2020		78.9							
8/18/2020	0.231 (J)		0.926						
8/19/2020								162	147
3/9/2021								119	160
3/15/2021	0.239 (J)		0.646	5.9	2.02	9.77			
3/16/2021		66.6					99.7		
8/17/2021		55.4							
8/18/2021	0.283 (J)		0.716						
8/23/2021				7.11	2.16	9.48	87.6		

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	75.9	33.9
4/13/2016	74.1	32.5
6/1/2016	76.4	33.9
8/17/2016	74.2	50.3
10/12/2016	75.7	53.3
1/25/2017	76.1	59.9
5/10/2017	78.6	66.5
6/28/2017	76.4	69.8
8/29/2017	74.1	72
6/5/2018	58	95.1
9/11/2018	64.9	122
11/7/2018	68.1	107
3/26/2019	72	132
9/10/2019	91	116
4/21/2020	84.8	111
8/18/2020		109
8/19/2020	98.6	
3/9/2021	100	82.1
8/24/2021	86.4	93.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		18.4		10.8	6.52	16.4			
2/17/2016	16		16.6				11.8	12.5	14.6
4/12/2016					4.47	15.9	12.6		
4/13/2016	21.5	19	17	8.2				13.6	14.9
5/31/2016		19.2	19	7.74	10.8	13.6	12.9		
6/1/2016	52.5							14.2	15.9
8/15/2016	33.3							13.6	19.5
8/16/2016		17.7	17	12.5	16.6		10.2		
8/17/2016						12.8			
10/11/2016	22.2						10.2		
10/12/2016		16.8	16.2	15.7	18.5	16.3		13.8	18.5
1/24/2017	18.4						11.2	14.2	19
1/25/2017		18.6	18	24.4	22	16.4			
5/9/2017	30		23	15	10	19			
5/10/2017		22					14	18	24
6/27/2017	29						14	17	24
6/28/2017		20	24	12	9.4	17			
8/29/2017		20	15	10	9.3	17			
8/30/2017	23						14	16	18
6/4/2018	22								
6/5/2018		18	16				13	15	15
6/6/2018				11	6.1	14			
9/10/2018	22		13						
9/11/2018		19		12	14		14		
9/12/2018						14		17	23
11/5/2018			13	17	18				
11/6/2018	17						14	15	11
11/7/2018		19				15			
3/26/2019				14.5	4.7		13	9.27	9.52
3/27/2019	18	17.1	14.2			14.9			
9/9/2019									15.4
9/10/2019	18.1	16.5	8.88	10.9		13.5	12.8	12.7	
9/11/2019					12.3				
4/20/2020					4.7		12	12.1	
4/21/2020	19.5			9.49		14.8			11.1
4/22/2020		17.6	20.5						
8/11/2020						12.7		12.1	15.4
8/12/2020							11.4		
8/17/2020	23.2								
8/18/2020		21.3	16.2	6.46	8.24				
3/9/2021						10.4		12	14.3
3/10/2021			17.1	9.3			11.9		
3/15/2021		23.2			7.68				
3/16/2021	16.6								
8/17/2021	34.4							10.4	14.3
8/24/2021		22.4							
8/25/2021			14.4	7.43	6.37	11.5	10.3		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			9.95						
2/17/2016	22.3	14.7		1.54	3.3	22.9			
4/12/2016	22.1			1.51	3.25	22.2			
4/13/2016		14.3	7.33						
6/1/2016	22	14.6	6.97	1.46	3.55	22.3			
8/15/2016	22.4	14.7							
8/16/2016			12	1.5	3.45				
8/17/2016						22.1	2.44	1.78	1.77
9/20/2016							2.54	1.61	1.56
10/11/2016		14.8		1.52	3.78	21.8			
10/12/2016	22.1		15.4				2.67	1.51	1.54
11/15/2016							2.94	1.5	1.53
1/4/2017							2.92	1.53	1.58
1/23/2017							3.21	1.62	
1/24/2017	23.2	15		1.38	4.61	21.8			1.71
1/25/2017			24.7						
5/9/2017		16	17	2.4		23	2.5	2.2	2.1
5/10/2017	26				5.9				
6/27/2017	25			2.1			3	1.9 (J)	2
6/28/2017		15	11		5.7	22			
8/29/2017			12	2.4	6.8	22	3.6	2	
8/30/2017	25	15							1.5 (J)
6/4/2018		16							
6/5/2018	25			1.7 (J)	7.9		2.2	1.9 (J)	1.2 (J)
6/6/2018			9.7			20			
9/10/2018		17	12						
9/11/2018				1.5 (J)	6.1		1.5 (J)	<2	<2
9/12/2018	23					20			
11/5/2018			16						
11/6/2018	26	17				21	2.5	1.9 (J)	<2
11/7/2018				1.4 (J)	5.2				
3/26/2019	25.4		17.2	1.23	6.92		2	2.18	1.2
3/27/2019		14.8				18.4			
9/9/2019	25.6	14							
9/10/2019			11	1.38	4.39	17.7			
9/11/2019							2.34	1.7	1.26
4/21/2020	26.3	12.3	10.1	1.08			2.04	1.9	1.32
4/22/2020					2.75	17.1			
8/11/2020						16.7			
8/12/2020	24.5			1.28	4.14				
8/17/2020		13.1							
8/18/2020			5.54				2.16	1.63	1.38
3/9/2021	25.2								
3/10/2021			20.4	1.3	3.51	25.3			
3/15/2021							2.83	2.46	1.27
3/16/2021		11.6							
8/17/2021	25.1	12.7							
8/18/2021							2.97	2.45	1.42
8/24/2021				1.19	3.42	25.3			
8/25/2021			10.4						

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		25.2					16.4	31.8	62.7
4/12/2016		24.6					16.6	28.9	
4/13/2016									57.8
5/31/2016							16.8	28.7	55.6
6/1/2016		24.5							
8/15/2016		24.2							
8/16/2016	2.21		2.54	5.32	4.24	4.88			
8/17/2016							16.4	32.2	53.3
9/19/2016				5.29	4.13	4.45			
9/20/2016	2.12		2.51						
10/11/2016	2.24	24.4	2.34	5.26	4.07	4.36	15.2	34.2	
10/12/2016									51.2
11/14/2016				5.28	4.08	4.42			
11/15/2016	6.65		2.1						
1/3/2017				5.18	4.06	5.18			
1/4/2017	2.15		2.44						
1/23/2017			2.37						
1/24/2017		24.6		5.41	4.4		15.1	38.1	
1/25/2017						5.66			44.8
1/26/2017	2.31								
5/9/2017	2.3	27	2.8				17		
5/10/2017				5.8	4.4	8		41	44
6/27/2017	2.1		2.1	5.4	4	7.2			
6/28/2017		26					17	36	45
8/29/2017								35	43
8/30/2017	2.8	26	3	6	4.8	6.9	17		
6/4/2018		27							
6/5/2018	1.8 (J)		2.3	5.2	3.8	4.2	15	32	49
9/11/2018	<2		1.5 (J)	5.5	4.1	4.2	14	36	52
9/12/2018		26							
11/5/2018					3.9				
11/6/2018	<2	26	1.4 (J)	5.1		4.5	13		
11/7/2018								30	58
3/26/2019	1.07		2.42					31.9	71
3/27/2019		24.8		5.26	3.9	4.33	16.1		
9/9/2019		23.8							
9/10/2019								27.3	67
9/11/2019	1.19		3.72	5.31	4.21	4.16	11.6		
4/20/2020		24.5							
4/21/2020	1.09		3.89				12.3	37.4	66.2
4/22/2020				5.37	4	5.66			
8/11/2020				5.45					
8/12/2020					4.17	4.46	13		
8/17/2020		24.6							
8/18/2020	1.05		3.8						
8/19/2020								39.6	123
3/9/2021								47.5	80.7
3/15/2021	1.25		4.38	5.47	5.57	4.18			
3/16/2021		24.4					10.9		
8/17/2021		21.3							
8/18/2021	1.42		4.46						
8/23/2021				6.37	5.61	4.33	11.6		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	67.9	15.6
4/13/2016	64.1	14.3
6/1/2016	66.3	12.6
8/17/2016	56.7	14.4
10/12/2016	56.1	16.4
1/25/2017	53.6	20
5/10/2017	48	24
6/28/2017	49	25
8/29/2017	52	25
6/5/2018	38	25
9/11/2018	37	26
11/7/2018	41	25
3/26/2019	39.7	25.3
9/10/2019	56.1	28
4/21/2020	69.5	24.2
8/18/2020		31.4
8/19/2020	70.5	
3/9/2021	106	53.9
8/24/2021	90.8	90.7

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		<0.001015		<0.001015	<0.001015	<0.001015			
2/17/2016	<0.001015		<0.001015				<0.001015	<0.001015	<0.001015
4/12/2016					<0.001015	<0.001015	<0.001015		
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
5/31/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
6/1/2016	<0.001015							<0.001015	<0.001015
8/15/2016	<0.001015							<0.001015	<0.001015
8/16/2016		<0.001015	<0.001015	<0.001015	0.00381 (J)		<0.001015		
8/17/2016						<0.001015			
10/11/2016	<0.001015						<0.001015		
10/12/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015
1/24/2017	<0.001015						<0.001015	<0.001015	<0.001015
1/25/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			
5/9/2017	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015			
5/10/2017		<0.001015					<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015						<0.001015	<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	<0.001015	0.00219 (J)	<0.001015			
2/27/2018	<0.001015	<0.001015	<0.001015			<0.001015			
2/28/2018				<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
6/4/2018	<0.001015								
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015	<0.001015
6/6/2018				<0.001015	<0.001015	<0.001015			
11/5/2018			<0.001015	<0.001015	<0.001015				
11/6/2018	<0.001015						<0.001015	<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015			
3/26/2019				<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015			
9/9/2019									<0.001015
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
9/11/2019					<0.001015				
4/20/2020					<0.001015		<0.001015	<0.001015	
4/21/2020	<0.001015			<0.001015		<0.001015			<0.001015
4/22/2020		<0.001015	<0.001015						
8/11/2020						<0.001015		<0.001015	<0.001015
8/12/2020							<0.001015		
8/17/2020	<0.001015								
8/18/2020		<0.001015	<0.001015	<0.001015	<0.001015				
3/9/2021						0.000357 (J)		0.000444 (J)	0.000216 (J)
3/10/2021			<0.001015	0.000224 (J)			0.000301 (J)		
3/15/2021		0.000357 (J)			0.000311 (J)				
3/16/2021	0.000341 (J)								
8/17/2021	0.00034 (J)						0.0004 (J)	0.00022 (J)	
8/24/2021		0.00036 (J)							
8/25/2021			0.00027 (J)	0.00035 (J)	0.00026 (J)	0.00023 (J)	0.00027 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.001015						
2/17/2016	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015			
4/12/2016	<0.001015			<0.001015	<0.001015	<0.001015			
4/13/2016		<0.001015	<0.001015						
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			
8/15/2016	<0.001015	<0.001015							
8/16/2016			<0.001015	<0.001015	<0.001015				
8/17/2016						<0.001015	<0.001015	<0.001015	<0.001015
9/20/2016							<0.001015	<0.001015	<0.001015
10/11/2016		<0.001015		<0.001015	<0.001015	<0.001015			
10/12/2016	<0.001015		<0.001015				<0.001015	<0.001015	<0.001015
11/15/2016							<0.001015	<0.001015	<0.001015
1/4/2017							<0.001015	<0.001015	<0.001015
1/23/2017							<0.001015	<0.001015	
1/24/2017	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015			<0.001015
1/25/2017			<0.001015						
5/9/2017		<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
5/10/2017	<0.001015				<0.001015				
6/27/2017	<0.001015			<0.001015			<0.001015	<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015		<0.001015	<0.001015			
2/27/2018		<0.001015		<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
2/28/2018	<0.001015		<0.001015			<0.001015			
6/4/2018		<0.001015							
6/5/2018	<0.001015			<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
6/6/2018			<0.001015			<0.001015			
11/5/2018			<0.001015						
11/6/2018	<0.001015	<0.001015				<0.001015	<0.001015	<0.001015	<0.001015
11/7/2018				<0.001015	<0.001015				
3/26/2019	<0.001015		<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
3/27/2019		<0.001015				<0.001015			
9/9/2019	<0.001015	<0.001015							
9/10/2019			<0.001015	<0.001015	<0.001015	<0.001015			
9/11/2019							<0.001015	<0.001015	<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015			<0.001015	<0.001015	<0.001015
4/22/2020					<0.001015	<0.001015			
8/11/2020						<0.001015			
8/12/2020	<0.001015			<0.001015	<0.001015				
8/17/2020		<0.001015							
8/18/2020			<0.001015				<0.001015	<0.001015	<0.001015
3/9/2021	0.000346 (J)								
3/10/2021			0.000333 (J)	0.000432 (J)	0.000433 (J)	0.0003 (J)			
3/15/2021							0.000474 (J)	0.000541 (J)	0.000995 (J)
3/16/2021		0.0004 (J)							
8/17/2021	0.00023 (J)	0.00267							
8/18/2021							0.00022 (J)	0.00032 (J)	0.00071 (J)
8/24/2021				0.00043 (J)	0.00034 (J)	0.00028 (J)			
8/25/2021			0.00027 (J)						

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.001015					<0.001015	<0.001015	<0.001015
4/12/2016		<0.001015					<0.001015	<0.001015	
4/13/2016									<0.001015
5/31/2016							<0.001015	<0.001015	<0.001015
6/1/2016		<0.001015							
8/15/2016		<0.001015							
8/16/2016	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015			
8/17/2016							<0.001015	<0.001015	<0.001015
9/19/2016				<0.001015	<0.001015	<0.001015			
9/20/2016	<0.001015		<0.001015						
10/11/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
10/12/2016									<0.001015
11/14/2016				<0.001015	<0.001015	<0.001015			
11/15/2016	<0.001015		<0.001015						
1/3/2017				<0.001015	<0.001015	<0.001015			
1/4/2017	<0.001015		<0.001015						
1/23/2017			<0.001015						
1/24/2017		<0.001015		<0.001015	<0.001015		<0.001015	<0.001015	
1/25/2017						<0.001015			<0.001015
1/26/2017	<0.001015								
5/9/2017	<0.001015	<0.001015	<0.001015				<0.001015		
5/10/2017				<0.001015	<0.001015	<0.001015		<0.001015	<0.001015
6/27/2017	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015			
6/28/2017		<0.001015					<0.001015	<0.001015	<0.001015
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018		<0.001015							
6/5/2018	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018					<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015		
11/7/2018								<0.001015	<0.001015
3/26/2019	<0.001015		<0.001015					<0.001015	<0.001015
3/27/2019		<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
9/9/2019		<0.001015							
9/10/2019								<0.001015	<0.001015
9/11/2019	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
4/20/2020		<0.001015							
4/21/2020	<0.001015		<0.001015				<0.001015	<0.001015	<0.001015
4/22/2020				<0.001015	<0.001015	<0.001015			
8/11/2020				<0.001015					
8/12/2020					<0.001015	<0.001015	<0.001015		
8/17/2020		<0.001015							
8/18/2020	<0.001015		<0.001015						
8/19/2020								<0.001015	<0.001015
3/9/2021								0.000347 (J)	0.000351 (J)
3/15/2021	0.000393 (J)		0.000502 (J)	0.000468 (J)	0.000431 (J)	0.000679 (J)			
3/16/2021		0.000347 (J)					0.000285 (J)		
8/17/2021		0.00032 (J)							
8/18/2021	0.00026 (J)		0.00033 (J)						
8/23/2021				0.00042 (J)	0.00038 (J)	0.0005 (J)	0.00027 (J)		
8/24/2021								0.00026 (J)	0.00036 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.001015	<0.001015
4/13/2016	<0.001015	<0.001015
6/1/2016	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015
1/25/2017	<0.001015	<0.001015
5/10/2017	<0.001015	<0.001015
6/28/2017	<0.001015	<0.001015
2/27/2018	<0.001015	<0.001015
6/5/2018	<0.001015	<0.001015
11/7/2018	<0.001015	<0.001015
3/26/2019	<0.001015	<0.001015
9/10/2019	<0.001015	<0.001015
4/21/2020	<0.001015	<0.001015
8/18/2020		<0.001015
8/19/2020	<0.001015	
3/9/2021	0.000346 (J)	0.000381 (J)
8/24/2021	0.00031 (J)	0.0003 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		0.0135		<0.0002	<0.0002	0.00732 (J)			
2/17/2016	0.0395		0.0504				0.0169	0.016	0.0101
4/12/2016					<0.0002	0.00785 (J)	0.0158		
4/13/2016	0.0452	0.0155	0.0448	<0.0002				0.0139	0.0109
5/31/2016		0.0146	0.0405	<0.0002	<0.0002	0.00712 (J)	0.014		
6/1/2016	0.0576							0.0117	0.0134
8/15/2016	0.0573							0.0133	0.0134
8/16/2016		0.016	0.0464	<0.0002	<0.0002		0.0153		
8/17/2016						0.00545 (J)			
10/11/2016	0.0531						0.0162		
10/12/2016		0.0154	0.0489	<0.0002	<0.0002	0.00497 (J)		0.0147	0.0204
1/24/2017	0.0539						0.0132	0.0122	0.0157
1/25/2017		0.0139	0.0417	<0.0002	<0.0002	0.00454 (J)			
5/9/2017	0.057		0.0471	<0.0002	<0.0002	0.00488 (J)			
5/10/2017		0.0144					0.014	0.0133	0.0179
6/27/2017	0.0664						0.0163	0.0141	0.0166
6/28/2017		0.0134	0.0664	<0.0002	<0.0002	0.00805 (J)			
2/27/2018	0.0652	0.0148	0.0438			0.016			
2/28/2018				<0.0002	<0.0002		0.0157	0.014	0.0251
6/4/2018	0.0758								
6/5/2018		0.0139	0.036				0.0148	0.0114	0.0456
6/6/2018				<0.0002	<0.0002	0.024			
11/5/2018			0.0171	<0.0002	<0.0002				
11/6/2018	0.0898						0.0158	0.0141	0.0321
11/7/2018		0.015				0.0124			
3/26/2019				<0.0002	<0.0002		0.0184	0.0177	0.0192
3/27/2019	0.176	0.014	0.0292			0.0303			
9/9/2019									0.0121
9/10/2019	0.104	0.0191	0.02	<0.0002		0.0278	0.0201	0.0162	
9/11/2019					<0.0002				
4/20/2020					<0.0002		0.0189	0.0146	
4/21/2020	0.206			<0.0002		0.0339			0.0158
4/22/2020		0.0233	0.0319						
8/11/2020						0.0373		0.0148	0.0122
8/12/2020							0.0184		
8/17/2020	0.195								
8/18/2020		0.0287	0.0298	<0.0002	<0.0002				
3/9/2021						0.0302		0.0162	0.0151
3/10/2021			0.0197	0.00118			0.0189		
3/15/2021		0.0475			0.000312				
3/16/2021	0.257								
8/17/2021	0.24							0.0155	0.0109
8/24/2021		0.0514							
8/25/2021			0.0507	0.00094	7E-05 (J)	0.0436	0.0181		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.0002						
2/17/2016	0.0227	0.00989 (J)		<0.0002	0.00219 (J)	0.00683 (J)			
4/12/2016	0.0209			<0.0002	<0.0002	0.00656 (J)			
4/13/2016		0.0106	<0.0002						
6/1/2016	0.02	0.011	<0.0002	<0.0002	<0.0002	0.00637 (J)			
8/15/2016	0.0225	0.0117							
8/16/2016			<0.0002	<0.0002	<0.0002				
8/17/2016						0.00659 (J)	0.0167	0.00692 (J)	0.00599 (J)
9/20/2016							0.0122	0.00232 (J)	0.00466 (J)
10/11/2016		0.0117		<0.0002	<0.0002	0.00687 (J)			
10/12/2016	0.0206		<0.0002				0.00839 (J)	<0.0002	0.00394 (J)
11/15/2016							0.00562 (J)	<0.0002	0.00296 (J)
1/4/2017							0.00655 (J)	<0.0002	0.00448 (J)
1/23/2017							0.0116	0.00203 (J)	
1/24/2017	0.015	0.00863 (J)		<0.0002	<0.0002	0.00522 (J)			0.00259 (J)
1/25/2017			<0.0002						
5/9/2017		0.00975 (J)	<0.0002	<0.0002		0.00646 (J)	0.0167	<0.0002	<0.0002
5/10/2017	0.0141				<0.0002				
6/27/2017	0.0144			<0.0002			0.0109	<0.0002	<0.0002
6/28/2017		0.0102	<0.0002	<0.0002	<0.0002	0.00721 (J)			
2/27/2018		0.00924 (J)		<0.0002	<0.0002		0.00278 (J)	<0.0002	<0.0002
2/28/2018	0.0136		<0.0002			0.00771 (J)			
6/4/2018		0.00866 (J)							
6/5/2018	0.0138		<0.0002	<0.0002	<0.0002		0.00223 (J)	<0.0002	<0.0002
6/6/2018			<0.0002			0.00712 (J)			
11/5/2018			<0.0002						
11/6/2018	0.0158	0.0101				0.00791	0.00202 (J)	<0.0002	<0.0002
11/7/2018				<0.0002	<0.0002				
3/26/2019	0.0161		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/27/2019		0.0131				0.0114			
9/9/2019	0.0174	0.0154							
9/10/2019			<0.0002	<0.0002	<0.0002	0.0127			
9/11/2019							<0.0002	<0.0002	<0.0002
4/21/2020	0.0173	0.0194	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002
4/22/2020					<0.0002	0.0133			
8/11/2020						0.0126			
8/12/2020	0.0152			<0.0002	<0.0002				
8/17/2020		0.0249							
8/18/2020			<0.0002				0.00279 (J)	<0.0002	<0.0002
3/9/2021	0.017								
3/10/2021			0.00204	<0.0002	0.000676	0.0115			
3/15/2021							0.000606	0.000139 (J)	0.000452
3/16/2021		0.0272							
8/17/2021	0.0175	0.0296							
8/18/2021							0.00067	0.00016 (J)	0.00036
8/24/2021				<0.0002	0.00073	0.0117			
8/25/2021			0.00147						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		0.00507 (J)					0.0216	<0.0002	<0.0002
4/12/2016		0.0047 (J)					0.0205	<0.0002	
4/13/2016									0.00218 (J)
5/31/2016							0.0196	0.00389 (J)	0.00328 (J)
6/1/2016		0.00372 (J)							
8/15/2016		0.0039 (J)							
8/16/2016	0.0122		0.00548 (J)	<0.0002	<0.0002	0.00923 (J)			
8/17/2016							0.0169	0.00234 (J)	0.00217 (J)
9/19/2016				0.00242 (J)	<0.0002	0.00539 (J)			
9/20/2016	0.012		0.0026 (J)						
10/11/2016	0.0135	0.00415 (J)	0.00214 (J)	0.0024 (J)	<0.0002	0.00506 (J)	0.0157	0.00202 (J)	
10/12/2016									0.00225 (J)
11/14/2016				<0.0002	<0.0002	0.00399 (J)			
11/15/2016	0.00938 (J)		<0.0002						
1/3/2017				0.00217 (J)	<0.0002	0.0037 (J)			
1/4/2017	0.00859 (J)		<0.0002						
1/23/2017			<0.0002						
1/24/2017		0.00383 (J)		0.00239 (J)	<0.0002		0.00858 (J)	<0.0002	
1/25/2017						0.0077 (J)			<0.0002
1/26/2017	0.0104								
5/9/2017	0.0119	0.00396 (J)	<0.0002				0.00755 (J)		
5/10/2017				<0.0002	<0.0002	0.00291 (J)		<0.0002	<0.0002
6/27/2017	0.0106		<0.0002	<0.0002	<0.0002	0.00247 (J)			
6/28/2017		0.00336 (J)					0.0069 (J)	<0.0002	<0.0002
2/27/2018	0.0027 (J)	0.00442 (J)	<0.0002	<0.0002	<0.0002	<0.0002	0.00471 (J)	<0.0002	<0.0002
6/4/2018		0.0038 (J)							
6/5/2018	0.00317 (J)		<0.0002	<0.0002	<0.0002	<0.0002	0.00481 (J)	0.00237 (J)	<0.0002
11/5/2018					<0.0002				
11/6/2018	0.00367 (J)	0.00439 (J)	<0.0002	<0.0002		<0.0002	0.00545		
11/7/2018								0.00258 (J)	0.00277 (J)
3/26/2019	<0.0002		<0.0002					0.00223 (J)	0.0024 (J)
3/27/2019		0.00463 (J)		<0.0002	<0.0002	<0.0002	0.00614		
9/9/2019		0.00413 (J)							
9/10/2019								0.00306 (J)	0.0034 (J)
9/11/2019	0.00265 (J)		<0.0002	<0.0002	<0.0002	<0.0002	0.00767		
4/20/2020		0.00396 (J)							
4/21/2020	<0.0002		<0.0002				0.00601	0.00228 (J)	0.00206 (J)
4/22/2020				<0.0002	<0.0002	<0.0002			
8/11/2020				<0.0002					
8/12/2020					<0.0002	<0.0002	0.00678		
8/17/2020		<0.0002							
8/18/2020	0.00224 (J)		<0.0002						
8/19/2020								0.00278 (J)	0.0046 (J)
3/9/2021								0.00367	0.00181
3/15/2021	0.00145		0.000137 (J)	0.000624	0.000908	<0.0002			
3/16/2021		0.00076					0.00857		
8/17/2021		0.00039							
8/18/2021	0.0019		0.00011 (J)						
8/23/2021				0.0006	0.00105	<0.0002	0.00645		
8/24/2021								0.00419	0.00333

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	0.0129	0.00869 (J)
4/13/2016	0.0139	0.00936 (J)
6/1/2016	0.0139	0.00976 (J)
8/17/2016	0.0138	0.012
10/12/2016	0.0138	0.0127
1/25/2017	0.0115	0.0109
5/10/2017	0.0125	0.0129
6/28/2017	0.0137	0.0125
2/27/2018	0.00698 (J)	0.013
6/5/2018	0.00478 (J)	0.0113
11/7/2018	0.00651	0.0145
3/26/2019	0.00445 (J)	0.0167
9/10/2019	0.0108	0.0177
4/21/2020	0.0111	0.0166
8/18/2020		0.0164
8/19/2020	0.00975	
3/9/2021	0.00707	0.0247
8/24/2021	0.00898	0.0323

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		<3		<3	<3	<3			
2/17/2016	<3		<3				<3	<3	<3
4/12/2016					<3	<3	<3		
4/13/2016	1.0468 (U)	<3	<3	<3				<3	<3
5/31/2016		0.899	0.145 (U)	0.21 (U)	0.313 (U)	0.624	0.41 (U)		
6/1/2016	1.43							0.515	0.972
8/15/2016	1.42							0.843	1.43
8/16/2016		0.82	0.521 (U)	0.697	0.435 (U)		0.399 (U)		
8/17/2016						0.49 (U)			
10/11/2016	1.6						0.00389 (U)		
10/12/2016		0.92	0.669 (U)	0.421 (U)	-0.0137 (U)	-0.0237 (U)		0.397 (U)	0.246 (U)
1/24/2017	1.3						0.35 (U)	0.269 (U)	0.918
1/25/2017		1.2	0.789	0.265 (U)	0.309 (U)	0.455 (U)			
5/9/2017	0.844		0.647	-0.132 (U)	0.42	0.451			
5/10/2017		0.665					0.0662 (U)	0.454	1.27
6/27/2017	1.32						0.793	1.25	1.51
6/28/2017		0.29 (U)	0.415	0.493	0.373	0.63			
2/27/2018			0.864	1.89	1.25	1.59			
2/28/2018	0.815	0.558					3.99	1.17	1.05
6/4/2018	1.01								
6/5/2018		0.698	0.244 (U)				-0.365 (U)	0.337 (U)	1.07
6/6/2018				0.114 (U)	0.258 (U)	0.943			
11/5/2018			0.682	0.048 (U)	0.441 (U)				
11/6/2018	0.938						0.391 (U)	0.661	1.05
11/7/2018		0.568				0.888			
3/26/2019				0.381	0.471		0.535	1.18	1.57
3/27/2019	1.17	0.988	0.564			1.1			
9/9/2019									1.29
9/10/2019	1.39	1.1	0.57	0.434 (U)		0.852	0.3 (U)	0.516 (U)	
9/11/2019					0.557 (U)				
4/20/2020					0.256 (U)		0.693	0.493 (U)	
4/21/2020	0.712			-0.0655 (U)		0.653			0.859
4/22/2020		1.11	0.502 (U)						
8/11/2020						1.64		1.48	2.14
8/12/2020							0.983		
8/17/2020	1.46								
8/18/2020		1.08	0.457 (U)	0.135 (U)	0.568 (U)				
3/9/2021						1.28 (U)		1.2 (U)	2.27
3/10/2021			0.666 (U)	0.481 (U)			0.335 (U)		
3/15/2021		1.12 (U)			0.537 (U)				
3/16/2021	1.45								
8/17/2021	1.36							0.49 (U)	1.97
8/24/2021		1.45							
8/25/2021			0.729 (U)	0.113 (U)	0.3 (U)	1.01	0.314 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<3						
2/17/2016	<3	<3		<3	<3	<3			
4/12/2016	<3			<3	<3	<3			
4/13/2016		<3	<3						
6/1/2016	1.55	0.758	0.126 (U)	0.044 (U)	0.407	0.1 (U)			
8/15/2016	1.85	0.638							
8/16/2016			0.477	0.213 (U)	0.547 (U)				
8/17/2016						0.372 (U)	0.66	0.386 (U)	1.47
9/20/2016							0.582	0.794	1.24
10/11/2016		0.701		0.184 (U)	0.845	0.277 (U)			
10/12/2016	0.481		0.137 (U)				-0.183 (U)	0.81	0.899
11/15/2016							0.262 (U)	0.366 (U)	0.933
1/4/2017							0.255 (U)	0.356 (U)	1.54
1/23/2017							0.871	0.429 (U)	
1/24/2017	0.889	0.515 (U)		0.251 (U)	0.403 (U)	0.585			0.868
1/25/2017			0.55						
5/9/2017		0.393 (U)	0.182 (U)	0.631		0.489	0.575	0.62	1.22
5/10/2017	1.01				0.645				
6/27/2017	1.17			0.145 (U)			0.459	0.319 (U)	0.925
6/28/2017		0.374	0.228 (U)		0.93	0.333			
2/27/2018	0.702	0.334 (U)	0.293 (U)	0.402 (U)	1.88	1.08	1.3	0.271 (U)	0.0271 (U)
6/4/2018		0.64							
6/5/2018	0.999			0.313 (U)	1.13		0.269 (U)	0.391	0.792
6/6/2018			-0.056 (U)			0.016 (U)			
11/5/2018			0.637						
11/6/2018	0.913	0.803				0.0751 (U)	0.328 (U)	0.646	0.926
11/7/2018				0.496 (U)	1.72				
3/26/2019	1.35		0.405	0.315 (U)	1.21		0.571	0.498	1.08
3/27/2019		0.77				0.309 (U)			
9/9/2019	1.08	0.3 (U)							
9/10/2019			0.0889 (U)	0.219 (U)	1.21	0.578			
9/11/2019							0.561	0.368 (U)	0.995
4/21/2020	0.888	0.663 (U)	0.271 (U)	0.166 (U)			0.215 (U)	0.55	0.307 (U)
4/22/2020					0.791	0.218 (U)			
8/11/2020						0.511 (U)			
8/12/2020	1.17			0.986	0.919				
8/17/2020		0.817							
8/18/2020			-0.0105 (U)				2.3	0.504 (U)	0.797
3/9/2021	1.11 (U)								
3/10/2021			0.418 (U)	1.01 (U)	2.15	1.03 (U)			
3/15/2021							0.347 (U)	0.578 (U)	1.5
3/16/2021		1.05 (U)							
8/17/2021	2.04	2.01							
8/18/2021							0.327 (U)	0.941 (U)	0.779 (U)
8/24/2021				0.735 (U)	1.23	0.693 (U)			
8/25/2021			0.305 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<3					<3	<3	<3
4/12/2016		<3					<3	<3	
4/13/2016									<3
5/31/2016							2.11	0.453 (U)	0.658
6/1/2016		1.06							
8/15/2016		0.972							
8/16/2016	0.522		0.434 (U)	1.34	0.951	0.534 (U)			
8/17/2016							2.28	0.381 (U)	0.936
9/19/2016				0.561 (U)	0.242 (U)	0.238 (U)			
9/20/2016	0.746		0.51						
10/11/2016	0.819	0.802	0.166 (U)	0.118 (U)	0.34 (U)	0.158 (U)	1.83	0.139 (U)	
10/12/2016									0.668
11/14/2016				0.984	0.447 (U)	0.641			
11/15/2016	0.516		0.589						
1/3/2017				0.473 (U)	0.729	0.834			
1/4/2017	0.648 (U)		0.659						
1/23/2017			0.227 (U)						
1/24/2017		1.1		-0.422 (U)	0.184 (U)		1.92	0.496	
1/25/2017						0.605			0.718
1/26/2017	0.852								
5/9/2017	0.148 (U)	0.74	0.436 (U)				3.05		
5/10/2017				0.706		0.563		0.278 (U)	0.56
5/31/2017					0.454				
6/27/2017	0.393		0.197 (U)	0.412	-0.111 (U)	0.937			
6/28/2017		0.867					2.24	0.724	0.526
2/27/2018	0.695	0.905	0.896	0.314 (U)	0.146 (U)	0.475	1.01	0.214 (U)	0.803
6/4/2018		0.954							
6/5/2018	0.145 (U)		0.342 (U)	0.218 (U)	-0.128 (U)	1.65	1.39	0.176 (U)	0.577
11/5/2018					0.0946 (U)				
11/6/2018	0.513 (U)	1.27	0.928	0.566 (U)		1.55	1.72		
11/7/2018								1.39	1.51
3/26/2019	0.598		1.3					0.904	0.841
3/27/2019		1.47		0.29 (U)	0.5	1.83	1.56		
9/9/2019		1.12							
9/10/2019								1.14	0.569 (U)
9/11/2019	0.237 (U)		0.995	0.28 (U)	-0.464 (U)	1.02	1.46		
4/20/2020		0.899							
4/21/2020	0.201 (U)		0.00976 (U)				0.882	0.679 (U)	0.549 (U)
4/22/2020				0.0983 (U)	0.474 (U)	1.08			
8/11/2020				0.767					
8/12/2020					3.18	3.41	2.08		
8/17/2020		0.738							
8/18/2020	3.88		3.33						
8/19/2020								0.96	1.04
3/9/2021								1.12 (U)	0.545 (U)
3/15/2021	0.618 (U)		0.601 (U)	0.817 (U)	1.11 (U)	0.771 (U)			
3/16/2021		0.553 (U)					1.71		
8/17/2021		1.09							
8/18/2021	0.937 (U)		1.22 (U)						
8/23/2021				0.345 (U)	1.09	1.01 (U)	2.11		
8/24/2021								0.645 (U)	0.865 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<3	<3
4/13/2016	<3	<3
6/1/2016	0.884	0.532
8/17/2016	1.06	1.07
10/12/2016	0.269 (U)	1.07
1/25/2017	1.12	1.46
5/10/2017	0.887	1.21
6/28/2017	0.908	0.821
2/28/2018	0.131 (U)	0.232 (U)
6/5/2018	0.564	0.722
11/7/2018	0.34 (U)	0.82
3/26/2019	0.507	1.49
9/10/2019	0.898	1.75
4/21/2020	1.09	1.31
8/18/2020		1.59
8/19/2020	0.6 (U)	
3/9/2021	1.6	1.16 (U)
8/24/2021	1.67	1.43

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/19/2021 7:55 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		0.23 (J)		0.16 (J)	0.14 (J)	0.13 (J)			
2/17/2016	0.05 (J)		0.11 (J)				0.09 (J)	0.2 (J)	0.53
4/12/2016					0.119 (J)	0.137 (J)	0.107 (J)		
4/13/2016	0.061 (J)	0.236 (J)	0.119 (J)	0.163 (J)				0.173 (J)	0.437
5/31/2016		0.255 (J)	0.134 (J)	0.19 (J)	0.132 (J)	0.149 (J)	0.145 (J)		
6/1/2016	0.079 (J)							0.253 (J)	0.376
8/15/2016	0.081 (J)							0.224 (J)	0.362
8/16/2016		0.238 (J)	0.116 (J)	0.219 (J)	0.177 (J)		0.135 (J)		
8/17/2016						0.147 (J)			
10/11/2016	0.049 (J)						0.096 (J)		
10/12/2016		0.198 (J)	0.076 (J)	0.163 (J)	0.149 (J)	0.115 (J)		0.187 (J)	0.377
3/14/2017	0.04 (J)		0.09 (J)			0.11	0.09 (J)	0.23	0.41
3/15/2017		0.22		0.13	0.16				
5/9/2017	0.05 (J)		0.11	0.15	0.18	0.14			
5/10/2017		0.25					0.11	0.23	0.36
6/27/2017	0.04 (J)						0.1	0.22	0.38
6/28/2017		0.09 (J)	0.17	0.17	0.18	0.13			
8/29/2017		0.26	0.14	0.22	0.19	0.14			
8/30/2017	0.04 (J)						0.13	0.28	0.38
2/27/2018	0.07 (J)	0.26	0.14			0.13			
2/28/2018				0.19	0.14		0.09 (J)	0.23	0.58
6/4/2018	0.07 (J)								
6/5/2018		0.24	0.16				0.13	0.28	0.41
6/6/2018				0.19	0.13	0.15			
11/5/2018			0.15	0.2	0.15				
11/6/2018	0.04 (J)						0.12	0.24	0.45
11/7/2018		0.25				0.19			
3/26/2019				0.196	0.0775 (J)		0.113	0.316	0.573
3/27/2019	0.192	0.206	0.104			0.248			
9/9/2019									0.477
9/10/2019	0.179	0.226	0.191	0.26		0.209	0.122	0.267	
9/11/2019					0.118				
4/20/2020					0.0844 (J)		0.14	0.245	
4/21/2020	0.12			0.198		0.254			0.565
4/22/2020		0.224	0.167						
8/11/2020						0.278		0.294	0.515
8/12/2020							0.147		
8/17/2020	0.115								
8/18/2020		0.203	0.165	0.223	0.108				
3/9/2021						0.263		0.286	0.628
3/10/2021			0.0749 (J)	0.161			0.115		
3/15/2021		0.324			0.0737 (J)				
3/16/2021	0.129								
8/17/2021	0.158							0.286	0.494
8/24/2021		0.277							
8/25/2021			0.135	0.188	0.111	0.239	0.167		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			0.18 (J)						
2/17/2016	0.15 (J)	0.09 (J)		0.08 (J)	0.02 (J)	0.02 (J)			
4/12/2016	0.168 (J)			0.077 (J)	0.026 (J)	0.021 (J)			
4/13/2016		0.092 (J)	0.191 (J)						
6/1/2016	0.178 (J)	0.108 (J)	0.201 (J)	0.101 (J)	0.057 (J)	0.051 (J)			
8/15/2016	0.149 (J)	0.105 (J)							
8/16/2016			0.218 (J)	0.093 (J)	0.046 (J)				
8/17/2016						0.037 (J)	0.159 (J)	0.039 (J)	0.055 (J)
9/20/2016							0.126 (J)	0.01 (o)	0.021 (o)
10/11/2016		0.062 (J)		0.059 (J)	<0.1	<0.1			
10/12/2016	0.12 (J)		0.171 (J)				0.1 (J)	<0.1	<0.1
11/15/2016							0.016 (J)	<0.1	<0.1
1/4/2017							<0.1	<0.1	<0.1
3/13/2017							0.31 (o)		
3/14/2017	0.17	<0.1		0.07 (J)	<0.1	<0.1		<0.1	<0.1
3/15/2017			0.16						
5/9/2017		0.07 (J)	0.17	0.08 (J)		<0.1	0.25 (o)	<0.1	<0.1
5/10/2017	0.17				<0.1				
6/27/2017	0.18			0.08 (J)			0.22 (o)	<0.1	<0.1
6/28/2017		0.09 (J)	0.18		<0.1	0.04 (J)			
8/29/2017			0.23	0.1	0.04 (J)	<0.1	0.22 (o)	<0.1	
8/30/2017	0.21	0.07 (J)							<0.1
2/27/2018		0.08 (J)		0.08 (J)	<0.1		0.08 (J)	<0.1	<0.1
2/28/2018	0.17		0.2			<0.1			
6/4/2018		0.09 (J)							
6/5/2018	0.17			0.09 (J)	0.04 (J)		0.07 (J)	<0.1	<0.1
6/6/2018			0.19			<0.1			
11/5/2018			0.22						
11/6/2018	0.17	0.07 (J)				<0.1	0.07 (J)	<0.1	<0.1
11/7/2018				0.08 (J)	<0.1				
3/26/2019	0.192		0.219	0.123	<0.1		<0.1	<0.1	<0.1
3/27/2019		0.089 (J)				<0.1			
9/9/2019	0.157	0.163							
9/10/2019			0.194	0.0914 (J)	0.0545 (J)	<0.1			
9/11/2019							0.0716 (J)	<0.1	0.0649 (J)
4/21/2020	0.171	0.126	0.173	0.095 (J)			<0.1	<0.1	<0.1
4/22/2020					<0.1	<0.1			
8/11/2020						<0.1			
8/12/2020	0.198			0.0867 (J)	<0.1				
8/17/2020		0.0753 (J)							
8/18/2020			0.18				<0.1	<0.1	<0.1
3/9/2021	0.205								
3/10/2021			0.113	0.085 (J)	<0.1	0.104			
3/15/2021							<0.1	<0.1	<0.1
3/16/2021		0.185							
8/17/2021	0.212	0.0974 (J)							
8/18/2021							<0.1	<0.1	<0.1
8/24/2021				0.0713 (J)	<0.1	0.0914 (J)			
8/25/2021			0.117						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		0.08 (J)					0.22 (J)	0.17 (J)	0.07 (J)
4/12/2016		0.083 (J)					0.214 (J)	0.203 (J)	
4/13/2016									0.081 (J)
5/31/2016							0.232 (J)	0.212 (J)	0.103 (J)
6/1/2016		0.118 (J)							
8/15/2016		0.109 (J)							
8/16/2016	0.05 (J)		0.036 (J)	0.087 (J)	0.054 (J)	0.061 (J)			
8/17/2016							0.225 (J)	0.19 (J)	0.078 (J)
9/19/2016				0.045 (J)	0.023 (J)	0.018 (J)			
9/20/2016	0.015 (J)		<0.1						
10/11/2016	<0.1	0.066 (J)	<0.1	0.034 (J)	0.011 (J)	<0.1	0.19 (J)	0.15 (J)	
10/12/2016									0.041 (J)
11/14/2016				<0.1	<0.1	<0.1			
11/15/2016	<0.1		<0.1						
1/3/2017				<0.1	<0.1	<0.1			
1/4/2017	<0.1		<0.1						
3/13/2017	<0.1								
3/14/2017		0.07 (J)	<0.1	<0.1	<0.1	<0.1	0.22	0.18	0.07 (J)
5/9/2017	<0.1	0.09 (J)	<0.1				0.21		
5/10/2017				0.05 (J)	0.05 (J)	0.06 (J)		0.19	0.09 (J)
6/27/2017	<0.1		<0.1	0.05 (J)	0.04 (J)	0.07 (J)			
6/28/2017		0.1					0.21	0.18	0.08 (J)
8/29/2017								0.22	0.09 (J)
8/30/2017	<0.1	0.12	<0.1	<0.1	0.04 (J)	0.08 (J)	0.25		
2/27/2018	<0.1	0.09 (J)	<0.1	<0.1	0.04 (J)	0.07 (J)	0.23	0.22	0.08 (J)
6/4/2018		0.1							
6/5/2018	<0.1		<0.1	<0.1	0.04 (J)	0.1	0.24	0.23	0.08 (J)
11/5/2018					<0.1				
11/6/2018	<0.1	0.1	<0.1	<0.1		0.08 (J)	0.22		
11/7/2018								0.22	0.08 (J)
3/26/2019	<0.1		<0.1					0.253	0.106
3/27/2019		0.13		<0.1	<0.1	<0.1	0.208		
9/9/2019		0.121							
9/10/2019								0.227	0.086 (J)
9/11/2019	<0.1		<0.1	<0.1	0.0518 (J)	<0.1	0.2		
4/20/2020		0.112							
4/21/2020	<0.1		<0.1				0.224	0.218	0.0951 (J)
4/22/2020				<0.1	<0.1	<0.1			
8/11/2020				<0.1					
8/12/2020					<0.1	<0.1	0.221		
8/17/2020		0.148							
8/18/2020	<0.1		<0.1						
8/19/2020								0.223	0.103
3/9/2021								0.17	0.0949 (J)
3/15/2021	<0.1		<0.1	<0.1	<0.1	<0.1			
3/16/2021		0.23					0.282		
8/17/2021		0.184							
8/18/2021	<0.1		<0.1						
8/23/2021				<0.1	<0.1	<0.1	0.322		
8/24/2021								0.161	0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	0.08 (J)	0.16 (J)
4/13/2016	0.088 (J)	0.15 (J)
6/1/2016	0.109 (J)	0.19 (J)
8/17/2016	0.089 (J)	0.171 (J)
10/12/2016	0.048 (J)	0.137 (J)
3/15/2017	0.08 (J)	0.15
5/10/2017	0.1	0.17
6/28/2017	0.09 (J)	0.16
8/29/2017	0.11	0.19
2/27/2018	0.11	0.19
6/5/2018	0.11	0.19
11/7/2018	0.11	0.2
3/26/2019	0.162	0.223
9/10/2019	0.113	0.178
4/21/2020	0.114	0.181
8/18/2020		0.177
8/19/2020	0.116	
3/9/2021	0.109	0.147
8/24/2021	0.141	0.164

Time Series

Constituent: Lead (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.0002						
2/17/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			
4/12/2016	<0.0002			<0.0002	<0.0002	<0.0002			
4/13/2016		<0.0002	<0.0002						
6/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/15/2016	<0.0002	0.00104 (J)							
8/16/2016			<0.0002	<0.0002	<0.0002				
8/17/2016						<0.0002	<0.0002	<0.0002	<0.0002
9/20/2016							<0.0002	<0.0002	<0.0002
10/11/2016		<0.0002		<0.0002	<0.0002	<0.0002			
10/12/2016	<0.0002		<0.0002				<0.0002	<0.0002	<0.0002
11/15/2016							<0.0002	<0.0002	<0.0002
1/4/2017							<0.0002	<0.0002	<0.0002
1/23/2017							<0.0002	<0.0002	
1/24/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			<0.0002
1/25/2017			<0.0002						
5/9/2017		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
5/10/2017	<0.0002				<0.0002				
6/27/2017	<0.0002			<0.0002			<0.0002	<0.0002	<0.0002
6/28/2017		<0.0002	<0.0002		<0.0002	<0.0002			
2/27/2018		<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2018	<0.0002		<0.0002			<0.0002			
6/4/2018		<0.0002							
6/5/2018	<0.0002			<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
6/6/2018			<0.0002			<0.0002			
11/5/2018			<0.0002						
11/6/2018	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
11/7/2018				<0.0002	<0.0002				
3/26/2019	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/27/2019		<0.0002				<0.0002			
9/9/2019	<0.0002	<0.0002							
9/10/2019			<0.0002	<0.0002	<0.0002	<0.0002			
9/11/2019							<0.0002	<0.0002	<0.0002
4/21/2020	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002
4/22/2020					<0.0002	<0.0002			
8/11/2020						<0.0002			
8/12/2020	<0.0002			<0.0002	<0.0002				
8/17/2020		<0.0002							
8/18/2020			<0.0002				<0.0002	<0.0002	<0.0002
3/9/2021	<0.0002								
3/10/2021			<0.0002	<0.0002	<0.0002	8.84E-05 (J)			
3/15/2021							6.99E-05 (J)	<0.0002	<0.0002
3/16/2021		0.000736							
8/17/2021	<0.0002	0.00059							
8/18/2021							7E-05 (J)	<0.0002	<0.0002
8/24/2021				<0.0002	<0.0002	<0.0002			
8/25/2021			<0.0002						

Time Series

Constituent: Lead (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.0002					<0.0002	<0.0002	<0.0002
4/12/2016		<0.0002					<0.0002	<0.0002	
4/13/2016									<0.0002
5/31/2016							<0.0002	<0.0002	<0.0002
6/1/2016		<0.0002							
8/15/2016		<0.0002							
8/16/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
8/17/2016							<0.0002	<0.0002	<0.0002
9/19/2016				<0.0002	<0.0002	<0.0002			
9/20/2016	<0.0002		<0.0002						
10/11/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/12/2016									<0.0002
11/14/2016				<0.0002	<0.0002	<0.0002			
11/15/2016	<0.0002		<0.0002						
1/3/2017				<0.0002	<0.0002	<0.0002			
1/4/2017	<0.0002		<0.0002						
1/23/2017			<0.0002						
1/24/2017		<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	
1/25/2017						<0.0002			<0.0002
1/26/2017	<0.0002								
5/9/2017	<0.0002	<0.0002	<0.0002				<0.0002		
5/10/2017				<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
6/27/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
6/28/2017		<0.0002					<0.0002	<0.0002	<0.0002
2/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018		<0.0002							
6/5/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018					<0.0002				
11/6/2018	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		
11/7/2018								<0.0002	<0.0002
3/26/2019	<0.0002		<0.0002					<0.0002	<0.0002
3/27/2019		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
9/9/2019		<0.0002							
9/10/2019								<0.0002	<0.0002
9/11/2019	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
4/20/2020		<0.0002							
4/21/2020	<0.0002		<0.0002				<0.0002	<0.0002	<0.0002
4/22/2020				<0.0002	<0.0002	<0.0002			
8/11/2020				<0.0002					
8/12/2020					<0.0002	<0.0002	<0.0002		
8/17/2020		<0.0002							
8/18/2020	<0.0002		<0.0002						
8/19/2020								<0.0002	<0.0002
3/9/2021								<0.0002	<0.0002
3/15/2021	<0.0002		<0.0002	<0.0002	0.000121 (J)	<0.0002			
3/16/2021		<0.0002					<0.0002		
8/17/2021		<0.0002							
8/18/2021	<0.0002		<0.0002						
8/23/2021				<0.0002	0.00015 (J)	<0.0002	<0.0002		
8/24/2021								<0.0002	<0.0002

Time Series

Constituent: Lead (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.0002	<0.0002
4/13/2016	<0.0002	<0.0002
6/1/2016	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002
10/12/2016	<0.0002	<0.0002
1/25/2017	<0.0002	<0.0002
5/10/2017	<0.0002	<0.0002
6/28/2017	<0.0002	<0.0002
2/27/2018	<0.0002	<0.0002
6/5/2018	<0.0002	<0.0002
11/7/2018	<0.0002	<0.0002
3/26/2019	<0.0002	<0.0002
9/10/2019	<0.0002	<0.0002
4/21/2020	<0.0002	<0.0002
8/18/2020		<0.0002
8/19/2020	<0.0002	
3/9/2021	<0.0002	7.84E-05 (J)
8/24/2021	<0.0002	<0.0002

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		0.115		0.502	0.51	0.632			
2/17/2016	<0.02		0.0777				0.806	0.626	0.612
4/12/2016					0.508	0.615	0.719		
4/13/2016	<0.02	0.135	0.073	0.544				0.594	0.694
5/31/2016		0.127	0.0721	0.47	0.454	0.613	0.735		
6/1/2016	<0.02							0.556	0.675
8/15/2016	<0.02							0.557	0.571
8/16/2016		0.124	0.075	0.282	0.371		0.699		
8/17/2016						0.444			
10/11/2016	0.0194 (J)						0.727		
10/12/2016		0.101	0.0703	0.217	0.282	0.387		0.589	0.622
1/24/2017	<0.02						0.689	0.522	0.752
1/25/2017		0.109	0.0683	0.108	0.0904	0.516			
5/9/2017	<0.02		0.0646	0.132	0.144	0.526			
5/10/2017		0.101					0.603	0.552	0.622
6/27/2017	<0.02						0.558	0.523	0.597
6/28/2017		0.0954	0.109	0.126	0.146	0.626			
2/27/2018	<0.02	0.111	0.11			0.562			
2/28/2018				0.0786	0.0738		0.571	0.544	0.73
6/4/2018	<0.02								
6/5/2018		0.104	0.102				0.492	0.49	0.531
6/6/2018				0.067	0.148	1.06			
11/5/2018			0.0641	0.0912	0.0914				
11/6/2018	<0.02						0.547	0.54	0.583
11/7/2018		0.11				0.604			
3/26/2019				0.0532	0.123		0.57	0.558	0.595
3/27/2019	<0.02	0.115	0.119			1.11			
9/9/2019									0.571
9/10/2019	<0.02	0.112	0.124	0.0598		0.765	0.6	0.581	
9/11/2019					0.246				
4/20/2020					0.201		0.604	0.62	
4/21/2020	<0.02			0.166		0.672			0.629
4/22/2020		0.123	0.126						
8/11/2020						0.712		0.599	0.552
8/12/2020							0.594		
8/17/2020	<0.02								
8/18/2020		0.124	0.109	0.0892	0.42				
3/9/2021						0.791		0.692	0.864
3/10/2021			0.0826	0.125			0.63		
3/15/2021		0.155			0.308				
3/16/2021	<0.02								
8/17/2021	<0.02							0.647	0.585
8/24/2021		0.198							
8/25/2021			0.132	0.117	0.5	0.985	0.622		

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			0.513						
2/17/2016	0.67	<0.02		<0.02	<0.02	<0.02			
4/12/2016	0.655			<0.02	<0.02	<0.02			
4/13/2016		<0.02	0.532						
6/1/2016	0.666	<0.02	0.513	<0.02	<0.02	<0.02			
8/15/2016	0.558	<0.02							
8/16/2016			0.301	<0.02	<0.02				
8/17/2016						<0.02	<0.02	<0.02	<0.02
9/20/2016							<0.02	<0.02	<0.02
10/11/2016		<0.02		<0.02	<0.02	<0.02			
10/12/2016	0.56		0.22				<0.02	<0.02	<0.02
11/15/2016							<0.02	<0.02	<0.02
1/4/2017							<0.02	<0.02	<0.02
1/23/2017							<0.02	<0.02	
1/24/2017	0.374	<0.02		<0.02	<0.02	<0.02			<0.02
1/25/2017			0.107						
5/9/2017		<0.02	0.113	<0.02		<0.02	<0.02	<0.02	<0.02
5/10/2017	0.443				<0.02				
6/27/2017	0.451			<0.02			<0.02	<0.02	<0.02
6/28/2017		<0.02	0.0962		<0.02	<0.02			
2/27/2018		<0.02		<0.02	<0.02		<0.02	<0.02	<0.02
2/28/2018	0.343		0.0594			<0.02			
6/4/2018		<0.02							
6/5/2018	0.353			<0.02	<0.02		<0.02	<0.02	<0.02
6/6/2018			0.0469 (J)			<0.02			
11/5/2018			0.0902						
11/6/2018	0.369	<0.02				<0.02	<0.02	<0.02	<0.02
11/7/2018				<0.02	<0.02				
3/26/2019	0.378		0.0531	<0.02	<0.02		<0.02	<0.02	<0.02
3/27/2019		<0.02				<0.02			
9/9/2019	0.408	<0.02							
9/10/2019			0.0862	<0.02	<0.02	<0.02			
9/11/2019							<0.02	<0.02	<0.02
4/21/2020	0.386	<0.02	0.0782	<0.02			<0.02	<0.02	<0.02
4/22/2020					<0.02	<0.02			
8/11/2020						<0.02			
8/12/2020	0.326			<0.02	<0.02				
8/17/2020		<0.02							
8/18/2020			0.0718				<0.02	<0.02	<0.02
3/9/2021	0.364								
3/10/2021			0.146	<0.02	<0.02	<0.02			
3/15/2021							<0.02	<0.02	<0.02
3/16/2021		<0.02							
8/17/2021	0.335	<0.02							
8/18/2021							<0.02	<0.02	<0.02
8/24/2021				<0.02	<0.02	<0.02			
8/25/2021			0.0872						

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.02					0.0883	<0.02	<0.02
4/12/2016		<0.02					0.0862	<0.02	
4/13/2016									<0.02
5/31/2016							0.085	<0.02	<0.02
6/1/2016		<0.02							
8/15/2016		<0.02							
8/16/2016	<0.02		<0.02	<0.02	<0.02	<0.02			
8/17/2016							0.093	<0.02	<0.02
9/19/2016				<0.02	<0.02	<0.02			
9/20/2016	<0.02		<0.02						
10/11/2016	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0928	<0.02	
10/12/2016									<0.02
11/14/2016				<0.02	<0.02	<0.02			
11/15/2016	<0.02		<0.02						
1/3/2017				<0.02	<0.02	<0.02			
1/4/2017	<0.02		<0.02						
1/23/2017			<0.02						
1/24/2017		<0.02		<0.02	<0.02		0.094	0.0591	
1/25/2017						<0.02			<0.02
1/26/2017	<0.02								
5/9/2017	<0.02	<0.02	<0.02				0.0865		
5/10/2017				<0.02	<0.02	<0.02		0.0519	<0.02
6/27/2017	<0.02		<0.02	<0.02	<0.02	<0.02			
6/28/2017		<0.02					0.0879	0.0403 (J)	<0.02
2/27/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.113	0.0201 (J)	<0.02
6/4/2018		<0.02							
6/5/2018	<0.02		<0.02	<0.02	<0.02	<0.02	0.101	0.0218 (J)	<0.02
11/5/2018					<0.02				
11/6/2018	<0.02	<0.02	<0.02	<0.02		<0.02	0.116		
11/7/2018								0.0141 (J)	<0.02
3/26/2019	<0.02		<0.02					0.0192 (J)	<0.02
3/27/2019		<0.02		<0.02	<0.02	<0.02	0.0988		
9/9/2019		<0.02							
9/10/2019								0.0267	<0.02
9/11/2019	<0.02		<0.02	<0.02	<0.02	<0.02	0.117		
4/20/2020		<0.02							
4/21/2020	<0.02		<0.02				0.13	0.0518	<0.02
4/22/2020				<0.02	<0.02	<0.02			
8/11/2020				<0.02					
8/12/2020					<0.02	<0.02	0.132		
8/17/2020		<0.02							
8/18/2020	<0.02		<0.02						
8/19/2020								0.0197 (J)	<0.02
3/9/2021								0.013 (J)	<0.02
3/15/2021	<0.02		<0.02	<0.02	<0.02	<0.02			
3/16/2021		<0.02					0.149		
8/17/2021		<0.02							
8/18/2021	<0.02		<0.02						
8/23/2021				<0.02	<0.02	<0.02	0.116		
8/24/2021								0.00951 (J)	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.02	0.0359 (J)
4/13/2016	<0.02	0.0276 (J)
6/1/2016	0.0101 (J)	0.0296 (J)
8/17/2016	0.0143 (J)	0.0398 (J)
10/12/2016	0.0166 (J)	0.0433 (J)
1/25/2017	0.0272 (J)	0.0366 (J)
5/10/2017	0.0436 (J)	0.039 (J)
6/28/2017	0.0401 (J)	0.0345 (J)
2/27/2018	0.0309 (J)	0.0349 (J)
6/5/2018	0.0286 (J)	0.0338 (J)
11/7/2018	0.0371	0.0616
3/26/2019	0.0537	0.0931
9/10/2019	0.0928	0.128
4/21/2020	0.0582	0.0693
8/18/2020		0.0591
8/19/2020	0.0511	
3/9/2021	0.0249	0.0417
8/24/2021	0.0155 (J)	0.0383

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.0005						
2/17/2016	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005			
4/12/2016	<0.0005			<0.0005	<0.0005	<0.0005			
4/13/2016		<0.0005	<0.0005						
6/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/15/2016	<0.0005	<0.0005							
8/16/2016			<0.0005	<0.0005	<0.0005				
8/17/2016						<0.0005	<0.0005	<0.0005	<0.0005
9/20/2016							<0.0005	<0.0005	<0.0005
10/11/2016		<0.0005		<0.0005	<0.0005	<0.0005			
10/12/2016	<0.0005		<0.0005				<0.0005	<0.0005	<0.0005
11/15/2016							<0.0005	<0.0005	<0.0005
1/4/2017							<0.0005	<0.0005	<0.0005
1/23/2017							<0.0005	<0.0005	
1/24/2017	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005			<0.0005
1/25/2017			<0.0005						
5/9/2017		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
5/10/2017	<0.0005				<0.0005				
6/27/2017	<0.0005			<0.0005			<0.0005	<0.0005	<0.0005
6/28/2017		<0.0005	<0.0005		<0.0005	<0.0005			
2/27/2018		<0.0005		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
2/28/2018	<0.0005		<0.0005			<0.0005			
6/4/2018		<0.0005							
6/5/2018	<0.0005			<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
6/6/2018			<0.0005			<0.0005			
11/5/2018			<0.0005						
11/6/2018	<0.0005	<0.0005				<0.0005	<0.0005	<0.0005	<0.0005
11/7/2018				<0.0005	<0.0005				
3/26/2019	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
3/27/2019		<0.0005				<0.0005			
9/9/2019	<0.0005	<0.0005							
9/10/2019			<0.0005	<0.0005	<0.0005	<0.0005			
9/11/2019							<0.0005	<0.0005	<0.0005
4/21/2020	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005	<0.0005
4/22/2020					<0.0005	<0.0005			
8/11/2020						<0.0005			
8/12/2020	<0.0005			<0.0005	<0.0005				
8/17/2020		<0.0005							
8/18/2020			<0.0005				<0.0005	<0.0005	<0.0005
3/9/2021	<0.0005								
3/10/2021			<0.0005	<0.0005	<0.0005	<0.0005			
3/15/2021							<0.0005	<0.0005	<0.0005
3/16/2021		<0.0005							
8/17/2021	<0.0005	<0.0005							
8/18/2021							<0.0005	<0.0005	<0.0005
8/24/2021				<0.0005	<0.0005	<0.0005			
8/25/2021			<0.0005						

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.0005					<0.0005	<0.0005	<0.0005
4/12/2016		<0.0005					<0.0005	<0.0005	
4/13/2016									<0.0005
5/31/2016							<0.0005	<0.0005	<0.0005
6/1/2016		<0.0005							
8/15/2016		<0.0005							
8/16/2016	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005			
8/17/2016							<0.0005	<0.0005	<0.0005
9/19/2016				<0.0005	<0.0005	<0.0005			
9/20/2016	<0.0005		<0.0005						
10/11/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
10/12/2016									<0.0005
11/14/2016				<0.0005	<0.0005	<0.0005			
11/15/2016	<0.0005		<0.0005						
1/3/2017				<0.0005	<0.0005	<0.0005			
1/4/2017	<0.0005		<0.0005						
1/23/2017			<0.0005						
1/24/2017		<0.0005		<0.0005	<0.0005		<0.0005	<0.0005	
1/25/2017						<0.0005			<0.0005
1/26/2017	<0.0005								
5/9/2017	<0.0005	<0.0005	<0.0005				<0.0005		
5/10/2017				<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
6/27/2017	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005			
6/28/2017		<0.0005					<0.0005	<0.0005	<0.0005
2/27/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/4/2018		<0.0005							
6/5/2018	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/5/2018					<0.0005				
11/6/2018	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		
11/7/2018								<0.0005	<0.0005
3/26/2019	<0.0005		<0.0005					<0.0005	<0.0005
3/27/2019		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
9/9/2019		<0.0005							
9/10/2019								<0.0005	<0.0005
9/11/2019	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
4/20/2020		<0.0005							
4/21/2020	<0.0005		<0.0005				<0.0005	<0.0005	<0.0005
4/22/2020				<0.0005	<0.0005	<0.0005			
8/11/2020				<0.0005					
8/12/2020					<0.0005	<0.0005	<0.0005		
8/17/2020		<0.0005							
8/18/2020	<0.0005		<0.0005						
8/19/2020								<0.0005	<0.0005
3/9/2021								<0.0005	<0.0005
3/15/2021	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005			
3/16/2021		<0.0005					<0.0005		
8/17/2021		<0.0005							
8/18/2021	<0.0005		<0.0005						
8/23/2021				<0.0005	<0.0005	<0.0005	<0.0005		
8/24/2021								<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.0005	<0.0005
4/13/2016	<0.0005	<0.0005
6/1/2016	<0.0005	<0.0005
8/17/2016	<0.0005	<0.0005
10/12/2016	<0.0005	<0.0005
1/25/2017	<0.0005	<0.0005
5/10/2017	<0.0005	<0.0005
6/28/2017	<0.0005	<0.0005
2/27/2018	<0.0005	<0.0005
6/5/2018	<0.0005	<0.0005
11/7/2018	<0.0005	<0.0005
3/26/2019	<0.0005	<0.0005
9/10/2019	<0.0005	<0.0005
4/21/2020	<0.0005	<0.0005
8/18/2020		<0.0005
8/19/2020	<0.0005	
3/9/2021	<0.0005	<0.0005
8/24/2021	<0.0005	<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		0.0101		0.107	0.0769	0.00839 (J)			
2/17/2016	<0.0002		0.00651 (J)				<0.0002	<0.0002	0.066
4/12/2016					0.0442	0.00918 (J)	<0.0002		
4/13/2016	<0.0002	0.0127	0.00646 (J)	0.101				<0.0002	0.0835
5/31/2016		0.0106	0.00546 (J)	0.0915	0.0481	0.00877 (J)	<0.0002		
6/1/2016	<0.0002							<0.0002	0.0835
8/15/2016	<0.0002							<0.0002	0.0838
8/16/2016		0.00991 (J)	0.00582 (J)	0.127	0.0956		<0.0002		
8/17/2016						0.0236			
10/11/2016	<0.0002						<0.0002		
10/12/2016		0.00919 (J)	0.00589 (J)	0.11	0.114	0.0289		<0.0002	0.111
1/24/2017	<0.0002						<0.0002	<0.0002	0.111
1/25/2017		0.0101	0.00556 (J)	0.0741	0.078	0.00501 (J)			
5/9/2017	<0.0002		0.0058 (J)	0.0883	0.0484	0.0108			
5/10/2017		0.00984 (J)					<0.0002	<0.0002	0.0566
6/27/2017	<0.0002						<0.0002	<0.0002	0.0702
6/28/2017		0.0102	0.00616 (J)	0.109	0.0598	0.00752 (J)			
2/27/2018	<0.0002	0.011	0.00962 (J)			0.0121			
2/28/2018				0.0903	0.0346		<0.0002	<0.0002	0.0957
6/4/2018	<0.0002								
6/5/2018		0.00752 (J)	0.00984 (J)				<0.0002	<0.0002	0.0363
6/6/2018				0.0757	0.0253	0.0101			
11/5/2018			0.00944 (J)	0.0906	0.044				
11/6/2018	<0.0002						<0.0002	<0.0002	0.0418
11/7/2018		0.00748 (J)				0.0155			
3/26/2019				0.11	0.0262		<0.0002	<0.0002	0.062
3/27/2019	<0.0002	0.00778 (J)	0.0151			0.0167			
9/9/2019									0.0681
9/10/2019	<0.0002	0.00757 (J)	0.0205	0.134		0.0125	<0.0002	<0.0002	
9/11/2019					0.0226				
4/20/2020					0.0924		<0.0002	<0.0002	
4/21/2020	<0.0002			0.0947		0.0141			0.0694
4/22/2020		0.00747 (J)	0.0147						
8/11/2020						0.0117		<0.0002	0.0506
8/12/2020							<0.0002		
8/17/2020	<0.0002								
8/18/2020		0.00808 (J)	0.0146	0.0938	0.145				
3/9/2021						0.0205		0.000113 (J)	0.067
3/10/2021			0.00701	0.0611			<0.0002		
3/15/2021		0.0103			0.0146				
3/16/2021	0.000117 (J)								
8/17/2021	<0.0002							0.00014 (J)	0.0468
8/24/2021		0.0132							
8/25/2021			0.0106	0.0547	0.0319	0.0127	<0.0002		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			0.0433						
2/17/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			
4/12/2016	<0.0002			<0.0002	<0.0002	<0.0002			
4/13/2016		<0.0002	0.0567						
6/1/2016	<0.0002	<0.0002	0.0565	<0.0002	<0.0002	<0.0002			
8/15/2016	<0.0002	<0.0002							
8/16/2016			0.0791	<0.0002	<0.0002				
8/17/2016						<0.0002	<0.0002	<0.0002	<0.0002
9/20/2016							<0.0002	<0.0002	<0.0002
10/11/2016		<0.0002		<0.0002	<0.0002	<0.0002			
10/12/2016	<0.0002		0.0767				<0.0002	<0.0002	<0.0002
11/15/2016							<0.0002	<0.0002	<0.0002
1/4/2017							<0.0002	<0.0002	<0.0002
1/23/2017							<0.0002	<0.0002	
1/24/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			<0.0002
1/25/2017			0.0398						
5/9/2017		<0.0002	0.0467	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
5/10/2017	<0.0002				<0.0002				
6/27/2017	<0.0002			<0.0002			<0.0002	<0.0002	<0.0002
6/28/2017		<0.0002	0.0833		<0.0002	<0.0002			
2/27/2018		<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2018	<0.0002		0.0643			<0.0002			
6/4/2018		<0.0002							
6/5/2018	<0.0002			<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
6/6/2018			0.0579			<0.0002			
11/5/2018			0.0548						
11/6/2018	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
11/7/2018				<0.0002	<0.0002				
3/26/2019	<0.0002		0.071	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/27/2019		<0.0002				<0.0002			
9/9/2019	<0.0002	<0.0002							
9/10/2019			0.0609	<0.0002	<0.0002	<0.0002			
9/11/2019							<0.0002	<0.0002	<0.0002
4/21/2020	<0.0002	<0.0002	0.0562	<0.0002			<0.0002	<0.0002	<0.0002
4/22/2020					<0.0002	<0.0002			
8/11/2020						<0.0002			
8/12/2020	<0.0002			<0.0002	<0.0002				
8/17/2020		<0.0002							
8/18/2020			0.0505				<0.0002	<0.0002	<0.0002
3/9/2021	0.000362								
3/10/2021			0.0123	0.000179 (J)	<0.0002	8.43E-05 (J)			
3/15/2021							<0.0002	<0.0002	<0.0002
3/16/2021		8.04E-05 (J)							
8/17/2021	0.0004	0.00017 (J)							
8/18/2021							<0.0002	<0.0002	<0.0002
8/24/2021				0.00017 (J)	<0.0002	<0.0002			
8/25/2021			0.00789						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.0002					0.00347 (J)	<0.0002	<0.0002
4/12/2016		<0.0002					0.00297 (J)	<0.0002	
4/13/2016									<0.0002
5/31/2016							0.00261 (J)	<0.0002	<0.0002
6/1/2016		<0.0002							
8/15/2016		<0.0002							
8/16/2016	<0.0002		<0.0002	0.00201 (J)	<0.0002	<0.0002			
8/17/2016							0.0033 (J)	<0.0002	<0.0002
9/19/2016				<0.0002	<0.0002	<0.0002			
9/20/2016	<0.0002		<0.0002						
10/11/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0041 (J)	<0.0002	
10/12/2016									<0.0002
11/14/2016				<0.0002	<0.0002	<0.0002			
11/15/2016	0.00308 (J)		<0.0002						
1/3/2017				<0.0002	<0.0002	<0.0002			
1/4/2017	<0.0002		<0.0002						
1/23/2017			<0.0002						
1/24/2017		<0.0002		<0.0002	<0.0002		0.00336 (J)	<0.0002	
1/25/2017						<0.0002			<0.0002
1/26/2017	<0.0002								
5/9/2017	<0.0002	<0.0002	<0.0002				0.0031 (J)		
5/10/2017				<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
6/27/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
6/28/2017		<0.0002					0.00356 (J)	<0.0002	<0.0002
2/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0042 (J)	<0.0002	<0.0002
6/4/2018		<0.0002							
6/5/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	0.00293 (J)	<0.0002	<0.0002
11/5/2018					<0.0002				
11/6/2018	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	0.00318 (J)		
11/7/2018								<0.0002	<0.0002
3/26/2019	<0.0002		<0.0002					<0.0002	<0.0002
3/27/2019		<0.0002		<0.0002	<0.0002	<0.0002	0.00284 (J)		
9/9/2019		<0.0002							
9/10/2019								<0.0002	<0.0002
9/11/2019	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	0.00328 (J)		
4/20/2020		<0.0002							
4/21/2020	<0.0002		<0.0002				0.00255 (J)	<0.0002	<0.0002
4/22/2020				<0.0002	<0.0002	<0.0002			
8/11/2020				<0.0002					
8/12/2020					<0.0002	<0.0002	0.00292 (J)		
8/17/2020		<0.0002							
8/18/2020	<0.0002		<0.0002						
8/19/2020								<0.0002	<0.0002
3/9/2021								0.0024	0.000156 (J)
3/15/2021	<0.0002		<0.0002	7.41E-05 (J)	<0.0002	<0.0002			
3/16/2021		<0.0002					0.00358		
8/17/2021		<0.0002							
8/18/2021	<0.0002		<0.0002						
8/23/2021				<0.0002	<0.0002	<0.0002	0.0031		
8/24/2021								0.00211	0.00013 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.0002	<0.0002
4/13/2016	<0.0002	<0.0002
6/1/2016	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002
10/12/2016	<0.0002	<0.0002
1/25/2017	<0.0002	<0.0002
5/10/2017	<0.0002	<0.0002
6/28/2017	<0.0002	<0.0002
2/27/2018	<0.0002	<0.0002
6/5/2018	<0.0002	<0.0002
11/7/2018	<0.0002	<0.0002
3/26/2019	<0.0002	<0.0002
9/10/2019	<0.0002	<0.0002
4/21/2020	<0.0002	<0.0002
8/18/2020		<0.0002
8/19/2020	<0.0002	
3/9/2021	8.12E-05 (J)	<0.0002
8/24/2021	<0.0002	<0.0002

Time Series

Constituent: pH (SU) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		6.29		6.84	6.4	6.21			
2/17/2016	5.8		6.04				6.02	6.18	6.32
4/12/2016					6.41	6.37	6.17		
4/13/2016	5.85	6.21	6.07	7.03				6.28	6.44
5/31/2016		6.45	6.03	6.94	6.22	6.42	6.15		
6/1/2016	5.92							6.36	6.24
8/15/2016	5.99							6.37	6.34
8/16/2016		6.58	6.09	6.84	6.41		6.21		
8/17/2016						6.42			
10/11/2016	6.02						6.14		
10/12/2016		6.6	6.06	6.75	6.42	6.38		6.32	6.42
11/1/2016					6.55	6.33	6.15		
11/2/2016								6.33	6.48
1/24/2017	5.92						6.11	6.29	6.53
1/25/2017		6.47	5.94	6.87	6.76	6.37			
3/14/2017	5.96		6.08			6.3	6.09	6.27	6.43
3/15/2017		6.54		6.9	6.82				
5/9/2017	5.93		6.07	6.85	6.7	6.43			
5/10/2017		6.53					6.11	6.3	6.33
6/27/2017	5.86						6.09	6.28	6.38
6/28/2017		6.49	6.02	6.85	6.58	6.4			
8/29/2017		6.49	6.19	6.86	6.4	6.32			
8/30/2017	5.88						6.1	6.34	6.31
2/27/2018	5.92	6.59	6.21			6.28			
2/28/2018				6.94	6.72		6.11	6.33	6.57
6/4/2018	5.89								
6/5/2018		6.52	6.27				6.05	6.29	6.21
6/6/2018				6.99	6.57	6.25			
9/10/2018	5.89		6.33						
9/11/2018		6.53		6.87	6.64		6.18		
9/12/2018						6.42		6.36	6.43
11/5/2018			6.26	6.81	6.69				
11/6/2018	5.95						6.09	6.37	6.47
11/7/2018		6.51				6.42			
3/26/2019				6.95	6.54		6.1	6.34	6.52
3/27/2019	5.8	6.53	6.37			6.41			
9/9/2019									5.84
9/10/2019	5.88	6.33	5.91	6.69		6.11	5.82	6.35	
9/11/2019					6.22				
4/20/2020					6.68		6.16	6.43	
4/21/2020	5.72			6.96		6.31			6.61
4/22/2020		6.44	6.26						
8/11/2020						6.02		6.7	6.71
8/12/2020							6.1		
8/17/2020	5.54								
8/18/2020		6.33	6	6.98	6.76				
3/9/2021						6.48		6.29	6.52
3/10/2021			5.97	6.89			6.08		
3/15/2021		6.29			6				
3/16/2021	5.67								
8/17/2021	5.49							6.33	6.57
8/24/2021		6.04							

Time Series

Constituent: pH (SU) Analysis Run 11/19/2021 7:56 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
8/25/2021			6.38	7.04	6.66	6.21	6.12		

Time Series

Constituent: pH (SU) Analysis Run 11/19/2021 7:56 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			7.15						
2/17/2016	6.23	6.01		6.8	5.39	5.36			
4/12/2016	6.3			6.54	5.29	5.31			
4/13/2016		6.17	7.1						
6/1/2016	6.24	6.18	6.76	6.49	5.39	5.35			
8/15/2016	6.25	6.12							
8/16/2016			6.99	6.57	5.51				
8/17/2016						5.38	5.85	5.47	6.15
9/20/2016							5.82	5.22	4.99
10/11/2016		6.09		6.54	5.44	5.31			
10/12/2016	6.26		6.89				5.76	5.1	4.88
10/31/2016									4.87
11/2/2016	6.3			6.54	5.49	5.39			
11/15/2016							5.79	5.07	4.81
11/29/2016							5.73	5.1	4.84
1/4/2017							5.69	5.3	4.88
1/23/2017							5.45	5.12	
1/24/2017	6.3	6.04		6.42	5.44	5.29			5.4
1/25/2017			6.84						
3/13/2017							4.8		
3/14/2017	6.31	6.11		6.59	5.48	5.19		4.74	5.13
3/15/2017			6.78						
5/9/2017		6.1	6.83	6.42		5.29	4.82	4.83	4.96
5/10/2017	6.34				5.43				
6/27/2017	6.32			6.44			5.27	4.87	5.34
6/28/2017		6.09	6.98		5.49	5.27			
8/29/2017			6.8	6.43	5.46	5.27	5.28	4.71	
8/30/2017	6.38	6.07							4.69
2/27/2018		6.09		6.49	5.48		5.11	4.96	4.91
2/28/2018	6.31		6.87			5.28			
6/4/2018		6.07							
6/5/2018	6.16			6.43	5.31		5.24	5	4.87
6/6/2018			6.94			5.21			
9/10/2018		6	6.74						
9/11/2018				6.35	5.36		5.28	4.94	4.65
9/12/2018	6.29					5.23			
11/5/2018			6.66						
11/6/2018	6.31	6.04				5.28	5.54	4.9	4.67
11/7/2018				6.37	5.34				
3/26/2019	6.3		6.84	6.46	5.32		5.4	4.96	4.92
3/27/2019		6.06				5.27			
9/9/2019	6.28	6.13							
9/10/2019			6.58	5.85	4.9	5.15			
9/11/2019							5.53	4.85	4.33
4/21/2020	6.31	5.99	6.81	6.26			5.3	4.29	4.07
4/22/2020					5.3	5.26			
8/11/2020						4.81			
8/12/2020	6.62			6.03	5.04				
8/17/2020		5.91							
8/18/2020			6.31				4.79	4.75	4.59
3/9/2021	6.39								
3/10/2021			6.26	6.17	5.14	5.71			

Time Series

Constituent: pH (SU) Analysis Run 11/19/2021 7:56 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
3/15/2021							5.32	4.73	4.45
3/16/2021		5.87							
8/17/2021	6.38	5.99							
8/18/2021							5.25	4.52	3.78
8/24/2021				6.09	5.16	5.25			
8/25/2021			6.51						

Time Series

Constituent: pH (SU) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		6.29					6.63	6.46	6.45
4/12/2016		6.33					6.59	6.45	
4/13/2016									6.49
5/31/2016							6.57	6.51	6.43
6/1/2016		6.4							
8/15/2016		6.36							
8/16/2016	6.21		5.39	7.13	6	6.34			
8/17/2016							6.72	6.54	6.43
9/19/2016				6.94	6	6.11			
9/20/2016	6.05		5.37						
10/11/2016	6.2	6.38	5.39	6.82	6.02	5.99	6.69	6.53	
10/12/2016									6.46
10/31/2016	6.61		5.36						
11/1/2016				6.71	5.97	5.84			
11/14/2016				6.57	5.98	5.83			
11/15/2016	6.64		5.33						
11/28/2016				6.57	6	5.79			
11/29/2016	6.39		5.33						
1/3/2017				6.56	6.03	5.39			
1/4/2017	6.06		5.49						
1/23/2017			5.48						
1/24/2017		6.34		6.41	5.9		6.61	6.44	
1/25/2017						5.09			6.43
1/26/2017	6.02								
3/13/2017	5.68								
3/14/2017		6.42	5.17	6.37	6.07	4.99	6.55	6.4	6.41
5/9/2017	5.05	6.35	5.11				6.65		
5/10/2017				6.41	6	4.63		6.4	6.41
5/31/2017					6.02				
6/27/2017	4.9		5.29	6.14	6.05	4.76			
6/28/2017		6.32					6.66	6.46	6.46
8/29/2017								6.47	6.46
8/30/2017	4.73	6.32	5.09	6.08	6.13	4.85	6.66		
2/27/2018	4.87	6.39	5.25	5.99	6.1	4.69	6.73	6.53	6.45
6/4/2018		6.4							
6/5/2018	4.89		5.12	5.93	6.05	4.62	6.63	6.49	6.36
9/11/2018	4.88		5.19	5.86	6.07	4.79	6.65	6.48	6.38
9/12/2018		6.35							
11/5/2018					6.01				
11/6/2018	4.86	6.34	5.12	5.89		4.62	6.65		
11/7/2018								6.48	6.37
3/26/2019	4.97		5.16					6.54	6.39
3/27/2019		6.44		5.95	6.15	4.68	6.59		
9/9/2019		6.22							
9/10/2019								6.55	6.39
9/11/2019	3.96		4.11	5.85	5.87	4.57	6.36		
4/20/2020		6.4							
4/21/2020	3.9		4.44				6.5	6.54	6.39
4/22/2020				5.75	5.92	4.71			
8/11/2020				5.63					
8/12/2020					5.84	4.65	6.36		
8/17/2020		5.85							

Time Series

Constituent: pH (SU) Analysis Run 11/19/2021 7:56 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	6.16	6.5
4/13/2016	6.29	6.32
6/1/2016	6.33	6.43
8/17/2016	6.27	6.46
10/12/2016	6.3	6.53
1/25/2017	6.27	6.45
3/15/2017	6.27	6.39
5/10/2017	6.25	6.39
6/28/2017	6.25	6.4
8/29/2017	6.32	6.47
2/27/2018	6.36	6.54
6/5/2018	6.3	6.47
9/11/2018	6.36	6.53
11/7/2018	6.31	6.49
3/26/2019	6.32	6.47
9/10/2019	6.31	6.43
4/21/2020	6.06	6.25
8/18/2020		6.21
8/19/2020	6.06	
3/9/2021	6.31	6.14
8/24/2021	6.16	6.08

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		<0.00102		<0.00102	0.0227	<0.00102			
2/17/2016	0.00277 (J)		<0.00102				<0.00102	<0.00102	<0.00102
4/12/2016					0.0701	<0.00102	<0.00102		
4/13/2016	<0.00102	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102
5/31/2016		<0.00102	<0.00102	<0.00102	0.0129	<0.00102	<0.00102		
6/1/2016	<0.00102							<0.00102	<0.00102
8/15/2016	<0.00102							<0.00102	<0.00102
8/16/2016		<0.00102	<0.00102	<0.00102	0.0208		<0.00102		
8/17/2016						<0.00102			
10/11/2016	<0.00102						<0.00102		
10/12/2016		<0.00102	<0.00102	<0.00102	0.00431 (J)	<0.00102		<0.00102	<0.00102
1/24/2017	<0.00102						<0.00102	<0.00102	<0.00102
1/25/2017		<0.00102	<0.00102	<0.00102	0.00779 (J)	<0.00102			
5/9/2017	<0.00102		<0.00102	<0.00102	0.00905 (J)	<0.00102			
5/10/2017		<0.00102					<0.00102	<0.00102	<0.00102
6/27/2017	0.00206 (J)						<0.00102	<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102	<0.00102	0.0072 (J)	<0.00102			
2/27/2018	0.00206 (J)	<0.00102	<0.00102			<0.00102			
2/28/2018				<0.00102	0.00826 (J)		<0.00102	<0.00102	<0.00102
6/4/2018	<0.00102								
6/5/2018		<0.00102	<0.00102				<0.00102	<0.00102	<0.00102
6/6/2018				<0.00102	0.00496 (J)	<0.00102			
11/5/2018			<0.00102	<0.00102	<0.00102				
11/6/2018	<0.00102						<0.00102	<0.00102	<0.00102
11/7/2018		<0.00102				<0.00102			
3/26/2019				<0.00102	0.0239		<0.00102	<0.00102	<0.00102
3/27/2019	<0.00102	<0.00102	<0.00102			<0.00102			
9/9/2019									<0.00102
9/10/2019	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
9/11/2019					<0.00102				
4/20/2020					0.0125		<0.00102	<0.00102	
4/21/2020	<0.00102			<0.00102		<0.00102			<0.00102
4/22/2020		<0.00102	<0.00102						
8/11/2020						<0.00102		<0.00102	<0.00102
8/12/2020							<0.00102		
8/17/2020	<0.00102								
8/18/2020		<0.00102	<0.00102	<0.00102	0.00416 (J)				
3/9/2021						<0.00102		<0.00102	<0.00102
3/10/2021			<0.00102	<0.00102			<0.00102		
3/15/2021		<0.00102			0.0175				
3/16/2021	0.00163								
8/17/2021	0.00209							<0.00102	<0.00102
8/24/2021		<0.00102							
8/25/2021			<0.00102	0.00281	0.00826	<0.00102	<0.00102		

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.00102						
2/17/2016	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102			
4/12/2016	<0.00102			0.00205 (J)	<0.00102	<0.00102			
4/13/2016		<0.00102	<0.00102						
6/1/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			
8/15/2016	<0.00102	<0.00102							
8/16/2016			<0.00102	<0.00102	<0.00102				
8/17/2016						<0.00102	<0.00102	<0.00102	<0.00102
9/20/2016							<0.00102	<0.00102	<0.00102
10/11/2016		<0.00102		<0.00102	<0.00102	<0.00102			
10/12/2016	<0.00102		<0.00102				<0.00102	<0.00102	<0.00102
11/15/2016							<0.00102	<0.00102	<0.00102
1/4/2017							<0.00102	<0.00102	<0.00102
1/23/2017							0.00247 (J)	<0.00102	
1/24/2017	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102			<0.00102
1/25/2017			<0.00102						
5/9/2017		<0.00102	<0.00102	<0.00102		<0.00102	0.0072 (J)	<0.00102	<0.00102
5/10/2017	<0.00102				<0.00102				
6/27/2017	<0.00102			<0.00102			0.00443 (J)	<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102		0.00268 (J)	<0.00102			
2/27/2018		<0.00102		<0.00102	0.00281 (J)		<0.00102	<0.00102	<0.00102
2/28/2018	<0.00102		<0.00102			<0.00102			
6/4/2018		<0.00102							
6/5/2018	<0.00102			<0.00102	0.00294 (J)		<0.00102	<0.00102	<0.00102
6/6/2018			<0.00102			<0.00102			
11/5/2018			<0.00102						
11/6/2018	<0.00102	<0.00102				<0.00102	<0.00102	<0.00102	<0.00102
11/7/2018				<0.00102	<0.00102				
3/26/2019	<0.00102		<0.00102	<0.00102	0.00208 (J)		<0.00102	<0.00102	<0.00102
3/27/2019		<0.00102				<0.00102			
9/9/2019	<0.00102	<0.00102							
9/10/2019			<0.00102	<0.00102	<0.00102	<0.00102			
9/11/2019							<0.00102	<0.00102	<0.00102
4/21/2020	<0.00102	<0.00102	<0.00102	<0.00102			<0.00102	<0.00102	<0.00102
4/22/2020					<0.00102	<0.00102			
8/11/2020						<0.00102			
8/12/2020	<0.00102			<0.00102	<0.00102				
8/17/2020		<0.00102							
8/18/2020			<0.00102				<0.00102	<0.00102	<0.00102
3/9/2021	<0.00102								
3/10/2021			<0.00102	0.00117	0.00139	<0.00102			
3/15/2021							<0.00102	<0.00102	<0.00102
3/16/2021		<0.00102							
8/17/2021	<0.00102	0.00054 (J)							
8/18/2021							<0.00102	<0.00102	<0.00102
8/24/2021				0.00113	0.00093 (J)	<0.00102			
8/25/2021			<0.00102						

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<0.00102					<0.00102	<0.00102	<0.00102
4/12/2016		<0.00102					<0.00102	<0.00102	
4/13/2016									<0.00102
5/31/2016							<0.00102	<0.00102	<0.00102
6/1/2016		<0.00102							
8/15/2016		<0.00102							
8/16/2016	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
8/17/2016							<0.00102	<0.00102	<0.00102
9/19/2016				<0.00102	<0.00102	<0.00102			
9/20/2016	<0.00102		<0.00102						
10/11/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
10/12/2016									<0.00102
11/14/2016				<0.00102	<0.00102	<0.00102			
11/15/2016	<0.00102		<0.00102						
1/3/2017				<0.00102	<0.00102	<0.00102			
1/4/2017	<0.00102		<0.00102						
1/23/2017			<0.00102						
1/24/2017		<0.00102		<0.00102	<0.00102		<0.00102	<0.00102	
1/25/2017						<0.00102			<0.00102
1/26/2017	<0.00102								
5/9/2017	<0.00102	<0.00102	<0.00102				<0.00102		
5/10/2017				<0.00102	<0.00102	<0.00102		<0.00102	<0.00102
6/27/2017	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
6/28/2017		<0.00102					<0.00102	<0.00102	<0.00102
2/27/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/4/2018		<0.00102							
6/5/2018	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
11/5/2018					<0.00102				
11/6/2018	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102		
11/7/2018								<0.00102	<0.00102
3/26/2019	<0.00102		<0.00102					<0.00102	<0.00102
3/27/2019		<0.00102		<0.00102	<0.00102	<0.00102	<0.00102		
9/9/2019		<0.00102							
9/10/2019								<0.00102	<0.00102
9/11/2019	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
4/20/2020		<0.00102							
4/21/2020	<0.00102		<0.00102				<0.00102	<0.00102	<0.00102
4/22/2020				<0.00102	<0.00102	<0.00102			
8/11/2020				<0.00102					
8/12/2020					<0.00102	<0.00102	<0.00102		
8/17/2020		<0.00102							
8/18/2020	<0.00102		<0.00102						
8/19/2020								<0.00102	<0.00102
3/9/2021								<0.00102	<0.00102
3/15/2021	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102			
3/16/2021		0.000959 (J)					<0.00102		
8/17/2021		0.00097 (J)							
8/18/2021	<0.00102		<0.00102						
8/23/2021				<0.00102	0.00059 (J)	<0.00102	<0.00102		
8/24/2021								<0.00102	<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.00102	<0.00102
4/13/2016	<0.00102	<0.00102
6/1/2016	<0.00102	<0.00102
8/17/2016	<0.00102	<0.00102
10/12/2016	<0.00102	<0.00102
1/25/2017	<0.00102	<0.00102
5/10/2017	<0.00102	<0.00102
6/28/2017	<0.00102	<0.00102
2/27/2018	<0.00102	<0.00102
6/5/2018	<0.00102	<0.00102
11/7/2018	<0.00102	<0.00102
3/26/2019	<0.00102	<0.00102
9/10/2019	<0.00102	<0.00102
4/21/2020	<0.00102	<0.00102
8/18/2020		<0.00102
8/19/2020	<0.00102	
3/9/2021	<0.00102	<0.00102
8/24/2021	<0.00102	<0.00102

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		9.03		119	113	108			
2/17/2016	785		40.2				187	87.4	72.3
4/12/2016					86.7	114	188		
4/13/2016	715	10.7	33.1	122				92.7	123
5/31/2016		10.2	28.1	94.3	83.1	114	183		
6/1/2016	832							111	144
8/15/2016	862							98.3	50.1
8/16/2016		9.1	38.5	67.1	59.3		196		
8/17/2016						85.4			
10/11/2016	888						216		
10/12/2016		7.24	38.3	94.1	99.3	53.5		99.3	72.6
1/24/2017	906						183	85.4	63.4
1/25/2017		9.71	32	101	113	75.4			
5/9/2017	810		44	91	74	84			
5/10/2017		11					160	74	82
6/27/2017	830						150	75	44
6/28/2017		10	88	71	71	120			
8/29/2017		14	110	80	72	180			
8/30/2017	910						160	87	230
6/4/2018	850								
6/5/2018		39	79				160	87	230
6/6/2018				62	48	450			
9/10/2018	920		80						
9/11/2018		29		63	62		140		
9/12/2018						200		63	33
11/5/2018			81	74	81				
11/6/2018	880						160	97	220
11/7/2018		45				180			
3/26/2019				92.3	92.4		157	123	161
3/27/2019	1090	66.2	83.2			335			
9/9/2019									57.3
9/10/2019	992	50.5	87.2	89.3		193	150	68	
9/11/2019					128				
4/20/2020					76.5		142	49.6	
4/21/2020	874			121		168			78
4/22/2020		63.2	58.7						
8/11/2020						242		55	46.7
8/12/2020							160		
8/17/2020	919								
8/18/2020		58.6	81.1	89	203				
3/9/2021						165		43.9	95.8
3/10/2021			73.2	155			136		
3/15/2021		68.5			204				
3/16/2021	933								
8/17/2021	745							46.6	32.8
8/24/2021		71.6							
8/25/2021			126	118	181	346	153		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			125						
2/17/2016	60.2	304		14.7	10.4	28.7			
4/12/2016	68.2			20	11.3	32.5			
4/13/2016		307	119						
6/1/2016	61.4	273	99.2	20.1	10.4	31.9			
8/15/2016	56	275							
8/16/2016			71.9	19.1	12.2				
8/17/2016						30.5	16.2	0.928 (J)	6.46
9/20/2016							14.9	0.478 (J)	8.3
10/11/2016		284		18.4	19.8	32.3			
10/12/2016	36.6		93.9				12.4	0.727 (J)	8.36
11/15/2016							8.6	0.448 (J)	8.75
1/4/2017							12.2	0.627 (J)	7.85
1/23/2017							16	1.34	
1/24/2017	12.3	302		15	30.7	33.5			6.62
1/25/2017			103						
5/9/2017		250	100	14		33	55	<1	5.6
5/10/2017	10				33				
6/27/2017	9.7			14			45	<1	5.3
6/28/2017		230	69		56	35			
8/29/2017			77	16	61	37	37	<1	
8/30/2017	7.8	250							8.2
6/4/2018		260							
6/5/2018	13			14	97		9.3	2.1 (J)	8.3
6/6/2018			81			47			
9/10/2018		280	64						
9/11/2018				13	83		7.8	<1	8.9
9/12/2018	28					41			
11/5/2018			68						
11/6/2018	11	280				48	6	<1	8.6
11/7/2018				14	91				
3/26/2019	21.3		92	12.3	103		6.86	1.66	10.1
3/27/2019		375				62.4			
9/9/2019	17.8	385							
9/10/2019			63.1	12.4	83.4	66			
9/11/2019							5.29	1.29	10.6
4/21/2020	19.2	522	99	10.2			6.28	2.21	9.4
4/22/2020					84.7	76.1			
8/11/2020						79.5			
8/12/2020	13.8			10.2	82.2				
8/17/2020		497							
8/18/2020			63.4				9.57	1.57	10.3
3/9/2021	11.6								
3/10/2021			51.7	11.8	99.9	70.3			
3/15/2021							7.66	2.5	10.4
3/16/2021		548							
8/17/2021	12.2	502							
8/18/2021							7.07	3.18	10.1
8/24/2021				11.6	81.8	66.6			
8/25/2021			76.1						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		<1					<1	132	311
4/12/2016		0.49 (J)					0.483 (J)	130	
4/13/2016									330
5/31/2016							0.518 (J)	111	324
6/1/2016		0.544 (J)							
8/15/2016		0.332 (J)							
8/16/2016	0.894 (J)		0.702 (J)	1.78	2.06	9.33			
8/17/2016							3.63	95.8	306
9/19/2016				2.06	1.44	11.2			
9/20/2016	<1		<1						
10/11/2016	<1	<1	<1	2.33	1.38	12.6	15.6	101	
10/12/2016									296
11/14/2016				2.31	1.15	12.4			
11/15/2016	1.19		<1						
1/3/2017				2.81	1.57	14.3			
1/4/2017	<1		<1						
1/23/2017			0.493 (J)						
1/24/2017		<1		3.34	2.06		28.9	129	
1/25/2017						15.2			243
1/26/2017	0.6 (J)								
5/9/2017	<1	2.1 (J)	<1				25		
5/10/2017				2.9 (J)	2.1 (J)	12		120	210
6/27/2017	<1		<1	3.4 (J)	2.7 (J)	13			
6/28/2017		<1					45	100	210
8/29/2017								95	220
8/30/2017	<1	<1	<1	3.7 (J)	2.6 (J)	15	96		
6/4/2018		1.4 (J)							
6/5/2018	1.4 (J)		<1	3.7 (J)	3.1 (J)	17	36	98	390
9/11/2018	<1		<1	2.2 (J)	1.6 (J)	16	48	100	360
9/12/2018		<1							
11/5/2018					2.4 (J)				
11/6/2018	<1	<1	<1	3.1 (J)		15	93		
11/7/2018								97	390
3/26/2019	0.594 (J)		<1					120	430
3/27/2019		6.64		3.55	3.24	15.1	33.4		
9/9/2019		6.56							
9/10/2019								140	409
9/11/2019	<1		<1	3.83	2.66	14.5	149		
4/20/2020		10.5							
4/21/2020	0.694 (J)		<1				163	153	318
4/22/2020				3.78	2.51	9.64			
8/11/2020				4.33					
8/12/2020					2.54	13.6	132		
8/17/2020		17.3							
8/18/2020	0.608 (J)		<1						
8/19/2020								163	296
3/9/2021								187	347
3/15/2021	<1		<1	3.74	8.5	2.76			
3/16/2021		7.62					167		
8/17/2021		12							
8/18/2021	0.86 (J)		0.754 (J)						
8/23/2021				4	9.18	2.44	155		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	49.4	45.2
4/13/2016	51.7	43.9
6/1/2016	51.2	32
8/17/2016	42.9	31.9
10/12/2016	39.5	39.6
1/25/2017	31.3	44
5/10/2017	30	32
6/28/2017	35	34
8/29/2017	40	34
6/5/2018	25	22
9/11/2018	23	33
11/7/2018	30	76
3/26/2019	21.6	138
9/10/2019	37.4	115
4/21/2020	43.3	133
8/18/2020		115
8/19/2020	44.5	
3/9/2021	71.7	107
8/24/2021	71.4	139

Time Series

Constituent: TDS (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		312		264	242	340			
2/17/2016	1540		158				408	310	328
4/12/2016					176	298	334		
4/13/2016	1200	324	161	238				372	373
5/31/2016		333	173	206	189	309	351		
6/1/2016	1440							360	442
8/15/2016	1420							366	392
8/16/2016		327	173	180	192		367		
8/17/2016						269			
10/11/2016	1420								
10/12/2016		312	173	223					
11/1/2016					244	252	372		
11/2/2016								374	469
1/24/2017	1350						354	380	464
1/25/2017		286	161	271	274	259			
5/9/2017	1540		195	236	191	285			
5/10/2017		326					332	381	492
6/27/2017	1470						331	404	516
6/28/2017		304	227	198	176	348			
8/29/2017		348	229	187	163	528			
8/30/2017	1530						317	420	646
6/4/2018	1370								
6/5/2018		346	200				318	408	644
6/6/2018				199	138	932			
9/10/2018	1380		183						
9/11/2018		335		184	185		321		
9/12/2018						180		415	476
11/5/2018			193	210	208				
11/6/2018	1450						331	447	634
11/7/2018		342				528			
3/26/2019				230	198		338 (D)	481	516
3/27/2019	1910	347	211			834			
9/9/2019									500
9/10/2019	1740	351	201	218 (D)		658	358	453	
9/11/2019					316				
4/20/2020					201		369	461	
4/21/2020	1530			291		628			490
4/22/2020		338	249						
8/11/2020						688		482	522
8/12/2020							401		
8/17/2020	1590								
8/18/2020		376	260	250	444				
3/9/2021						618		524	684
3/10/2021			274	331			397		
3/15/2021		406			374				
3/16/2021	1620								
8/17/2021	1340							490	506
8/24/2021		423							
8/25/2021			358	263	359	774	407		

Time Series

Constituent: TDS (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			264						
2/17/2016	464	516		142	53	144			
4/12/2016	491			155	38.7	140			
4/13/2016		508	226						
6/1/2016	468	494	231	148	46	139			
8/15/2016	454	476							
8/16/2016			181	132	48				
8/17/2016						142	64	36.7	65.3
9/20/2016							60	25.3	44
10/11/2016		508							
10/12/2016			225				54.7	<25	
10/31/2016									38.7
11/2/2016	422			115	66.7	128			
11/29/2016							42	<25	34
1/4/2017							56	27.3	42
1/23/2017							50.7	<25	
1/24/2017	408	510		107	78.7	124			45.3
1/25/2017			277						
5/9/2017		510	255	80.7		136	126	28.7	49.3
5/10/2017	358				92.7				
6/27/2017	382			96.7			93.3	27.3	46
6/28/2017		480	175		118	145			
8/29/2017			218	120	128	139	84	30.7	
8/30/2017	392	478							38.7
6/4/2018		528							
6/5/2018	352			113	171		38.7	26	34.7
6/6/2018			207			153			
9/10/2018		472	197						
9/11/2018				108	170		35.3	<25	34.7
9/12/2018	339					156			
11/5/2018			200						
11/6/2018	368	522				153	40.7	26	36
11/7/2018				96.7	163				
3/26/2019	406		218	103	174		36.7	<25	30
3/27/2019		562				178			
9/9/2019	409 (D)	666							
9/10/2019			198	107	167	182			
9/11/2019							40.7	27.3	40
4/21/2020	429	878	265	107			39.3	30.7	36
4/22/2020					162	195			
8/11/2020						193			
8/12/2020	390			96	165				
8/17/2020		818							
8/18/2020			179				42	27.3	35.3
3/9/2021	412								
3/10/2021			296	105	179	246			
3/15/2021							42.7	30.7	30
3/16/2021		890							
8/17/2021	397	808							
8/18/2021							43.3	28.7	32
8/24/2021				96.7	167	224			
8/25/2021			207						

Time Series

Constituent: TDS (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		358					238	640	892
4/12/2016		393					316	610	
4/13/2016									1010
5/31/2016							320	626	1100
6/1/2016		381							
8/15/2016		348							
8/16/2016	41.3		<25	142	49.3	101			
8/17/2016							325	628	1070
9/19/2016				121	44.7	80			
9/20/2016	42.7		26.7						
10/11/2016		379					333	636	
10/12/2016									1040
10/31/2016	140		25.3						
11/1/2016				103	48	78			
11/28/2016				84	40.7	68.7			
11/29/2016	78		<25						
1/3/2017				89.3	49.3	60.7			
1/4/2017	34		34.7						
1/23/2017			33.3						
1/24/2017		354		83.3	48.7		336	696	
1/25/2017						54.7			972
1/26/2017	32.7								
5/9/2017	<25	368	<25				317		
5/10/2017				31.3	46.7	60.7		687	740
6/27/2017	30.7		<25	67.3	55.3	58			
6/28/2017		368					373	622	914
8/29/2017								616	924
8/30/2017	25.3	370	28	64	57.3	66.7	432		
6/4/2018		369							
6/5/2018	<25		28.7	50	52.7	71.3	347	582	1060
9/11/2018	<25		29.3	53.3	60	66.7	370	616	1020
9/12/2018		354							
11/5/2018					53.3				
11/6/2018	<25	354	<25	66		61.3	409		
11/7/2018								576	1050
3/26/2019	<25		19.9 (D)					682	1100
3/27/2019		362		48.7	51.35 (D)	65.3	328		
9/9/2019		371							
9/10/2019								744	1100
9/11/2019	<25		34	52.7	55.3	68.3 (D)	455		
4/20/2020		371							
4/21/2020	<25		26.7				494	742	1010
4/22/2020				49.3	52.7	62.7			
8/11/2020				52					
8/12/2020					49.3	62	433		
8/17/2020		361							
8/18/2020	<25		30						
8/19/2020								788	1050
3/9/2021								716	1090
3/15/2021	<25		30	49.3	46	48			
3/16/2021		340					510		
8/17/2021		297							

Time Series

Constituent: TDS (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	656	226
4/13/2016	634	202
6/1/2016	672	224
8/17/2016	624	290
10/12/2016	586	315
1/25/2017	596	332
5/10/2017	576	361
6/28/2017	612	396
8/29/2017	640	402
6/5/2018	474	448
9/11/2018	496	462
11/7/2018	514	506
3/26/2019	546	586
9/10/2019	601 (D)	586
4/21/2020	638	578
8/18/2020		542
8/19/2020	658	
3/9/2021	746	532
8/24/2021	690	624

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
2/16/2016		<0.0002		<0.0002	<0.0002	<0.0002			
2/17/2016	0.000601 (J)		0.000869 (J)				0.000697 (J)	0.000687 (J)	0.00067 (J)
4/12/2016					<0.0002	<0.0002	<0.0002		
4/13/2016	<0.0002	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002
5/31/2016		<0.0002	<0.0002	<0.0002	0.000212 (J)	<0.0002	<0.0002		
6/1/2016	<0.0002							0.000272 (J)	<0.0002
8/15/2016	<0.0002							0.000278 (J)	<0.0002
8/16/2016		<0.0002	<0.0002	<0.0002	0.000449 (J)		<0.0002		
8/17/2016						<0.0002			
10/11/2016	<0.0002						<0.0002		
10/12/2016		<0.0002	<0.0002	<0.0002	0.000532 (J)	<0.0002		0.000322 (J)	<0.0002
1/24/2017	<0.0002						<0.0002	0.000265 (J)	<0.0002
1/25/2017		<0.0002	<0.0002	<0.0002	0.000309 (J)	<0.0002			
5/9/2017	<0.0002		<0.0002	<0.0002	0.00021 (J)	<0.0002			
5/10/2017		<0.0002					<0.0002	0.000327 (J)	<0.0002
6/27/2017	<0.0002						<0.0002	0.000301 (J)	<0.0002
6/28/2017		<0.0002	<0.0002	<0.0002	0.000244 (J)	<0.0002			
2/27/2018	<0.0002	<0.0002	<0.0002			<0.0002			
2/28/2018				<0.0002	<0.0002		<0.0002	0.000321 (J)	<0.0002
6/4/2018	<0.0002								
6/5/2018		<0.0002	<0.0002				<0.0002	0.000288 (J)	<0.0002
6/6/2018				<0.0002	0.000239 (J)	<0.0002			
11/5/2018			<0.0002	<0.0002	0.000623 (J)				
11/6/2018	<0.0002						<0.0002	0.000354 (J)	<0.0002
11/7/2018		<0.0002				<0.0002			
3/26/2019				<0.0002	0.000215 (J)		<0.0002	0.00041 (J)	<0.0002
3/27/2019	<0.0002	<0.0002	<0.0002			<0.0002			
9/9/2019									<0.0002
9/10/2019	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	0.000396 (J)	
9/11/2019					0.00214				
4/20/2020					0.000433 (J)		<0.0002	0.00032 (J)	
4/21/2020	<0.0002			<0.0002		<0.0002			<0.0002
4/22/2020		<0.0002	<0.0002						
8/11/2020						<0.0002		0.000329 (J)	<0.0002
8/12/2020							<0.0002		
8/17/2020	<0.0002								
8/18/2020		<0.0002	<0.0002	<0.0002	0.00114				
3/9/2021						<0.0002		0.000369	<0.0002
3/10/2021			8.7E-05 (J)	<0.0002			8.78E-05 (J)		
3/15/2021		<0.0002			0.000506				
3/16/2021	0.000107 (J)								
8/17/2021	0.00012 (J)							0.00036	<0.0002
8/24/2021		<0.0002							
8/25/2021			9E-05 (J)	<0.0002	0.00124	<0.0002	<0.0002		

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
2/16/2016			<0.0002						
2/17/2016	0.000404 (J)	0.000388 (J)		0.000364 (J)	0.00039 (J)	0.000232 (J)			
4/12/2016	<0.0002			<0.0002	<0.0002	<0.0002			
4/13/2016		<0.0002	<0.0002						
6/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/15/2016	<0.0002	<0.0002							
8/16/2016			<0.0002	<0.0002	<0.0002				
8/17/2016						<0.0002	<0.0002	<0.0002	<0.0002
9/20/2016							<0.0002	<0.0002	<0.0002
10/11/2016		<0.0002		<0.0002	<0.0002	<0.0002			
10/12/2016	<0.0002		<0.0002				<0.0002	<0.0002	<0.0002
11/15/2016							<0.0002	<0.0002	<0.0002
1/4/2017							<0.0002	<0.0002	<0.0002
1/23/2017							<0.0002	<0.0002	
1/24/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			<0.0002
1/25/2017			<0.0002						
5/9/2017		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
5/10/2017	<0.0002				<0.0002				
6/27/2017	<0.0002			<0.0002			<0.0002	<0.0002	<0.0002
6/28/2017		<0.0002	<0.0002		<0.0002	<0.0002			
2/27/2018		<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2018	<0.0002		<0.0002			<0.0002			
6/4/2018		<0.0002							
6/5/2018	<0.0002			<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
6/6/2018			<0.0002			<0.0002			
11/5/2018			<0.0002						
11/6/2018	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
11/7/2018				<0.0002	<0.0002				
3/26/2019	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/27/2019		<0.0002				<0.0002			
9/9/2019	<0.0002	<0.0002							
9/10/2019			<0.0002	<0.0002	<0.0002	<0.0002			
9/11/2019							<0.0002	<0.0002	<0.0002
4/21/2020	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002
4/22/2020					<0.0002	<0.0002			
8/11/2020						<0.0002			
8/12/2020	<0.0002			<0.0002	<0.0002				
8/17/2020		<0.0002							
8/18/2020			<0.0002				<0.0002	<0.0002	<0.0002
3/9/2021	<0.0002								
3/10/2021			0.000106 (J)	<0.0002	<0.0002	<0.0002			
3/15/2021							<0.0002	<0.0002	<0.0002
3/16/2021		0.000101 (J)							
8/17/2021	<0.0002	0.00013 (J)							
8/18/2021							<0.0002	<0.0002	<0.0002
8/24/2021				<0.0002	<0.0002	<0.0002			
8/25/2021			<0.0002						

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7
2/17/2016		0.00038 (J)					0.000779 (J)	0.000639 (J)	0.00042 (J)
4/12/2016		<0.0002					<0.0002	<0.0002	
4/13/2016									<0.0002
5/31/2016							<0.0002	<0.0002	<0.0002
6/1/2016		<0.0002							
8/15/2016		<0.0002							
8/16/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
8/17/2016							<0.0002	<0.0002	<0.0002
9/19/2016				<0.0002	<0.0002	<0.0002			
9/20/2016	<0.0002		<0.0002						
10/11/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
10/12/2016									<0.0002
11/14/2016				<0.0002	<0.0002	<0.0002			
11/15/2016	<0.0002		<0.0002						
1/3/2017				<0.0002	<0.0002	<0.0002			
1/4/2017	<0.0002		<0.0002						
1/23/2017			<0.0002						
1/24/2017		<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	
1/25/2017						<0.0002			<0.0002
1/26/2017	<0.0002								
5/9/2017	<0.0002	<0.0002	<0.0002				<0.0002		
5/10/2017				<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
6/27/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
6/28/2017		<0.0002					<0.0002	<0.0002	<0.0002
2/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018		<0.0002							
6/5/2018	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018					<0.0002				
11/6/2018	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		
11/7/2018								<0.0002	<0.0002
3/26/2019	<0.0002		<0.0002					<0.0002	<0.0002
3/27/2019		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
9/9/2019		<0.0002							
9/10/2019								<0.0002	<0.0002
9/11/2019	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
4/20/2020		<0.0002							
4/21/2020	<0.0002		<0.0002				<0.0002	<0.0002	<0.0002
4/22/2020				<0.0002	<0.0002	<0.0002			
8/11/2020				<0.0002					
8/12/2020					<0.0002	<0.0002	<0.0002		
8/17/2020		<0.0002							
8/18/2020	<0.0002		<0.0002						
8/19/2020								<0.0002	<0.0002
3/9/2021								<0.0002	<0.0002
3/15/2021	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002			
3/16/2021		<0.0002					<0.0002		
8/17/2021		<0.0002							
8/18/2021	<0.0002		<0.0002						
8/23/2021				<0.0002	<0.0002	<0.0002	<0.0002		
8/24/2021								<0.0002	<0.0002

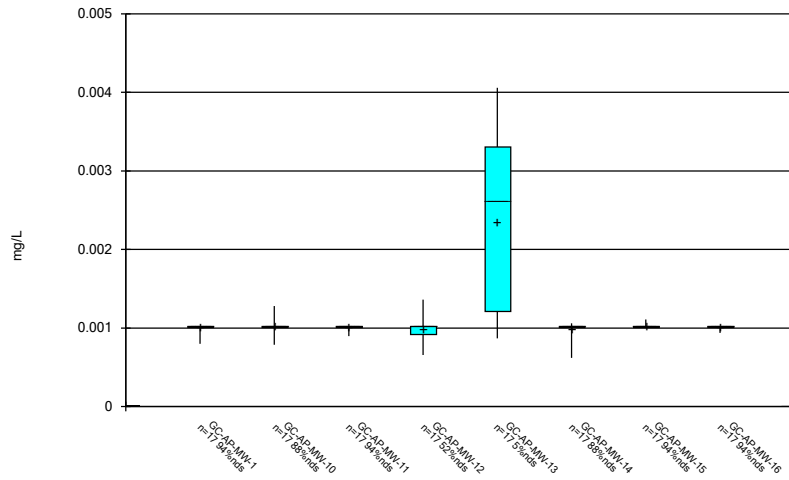
Time Series

Constituent: Thallium (mg/L) Analysis Run 11/19/2021 7:56 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
2/16/2016	<0.0002	<0.0002
4/13/2016	<0.0002	<0.0002
6/1/2016	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002
10/12/2016	<0.0002	<0.0002
1/25/2017	<0.0002	<0.0002
5/10/2017	<0.0002	<0.0002
6/28/2017	<0.0002	<0.0002
2/27/2018	<0.0002	<0.0002
6/5/2018	<0.0002	<0.0002
11/7/2018	<0.0002	<0.0002
3/26/2019	<0.0002	<0.0002
9/10/2019	<0.0002	<0.0002
4/21/2020	<0.0002	<0.0002
8/18/2020		<0.0002
8/19/2020	<0.0002	
3/9/2021	<0.0002	<0.0002
8/24/2021	<0.0002	<0.0002

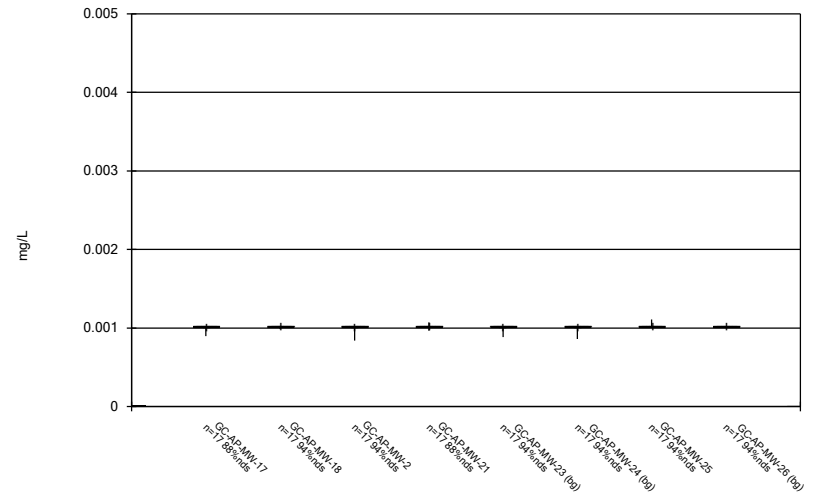
FIGURE B.

Box & Whiskers Plot



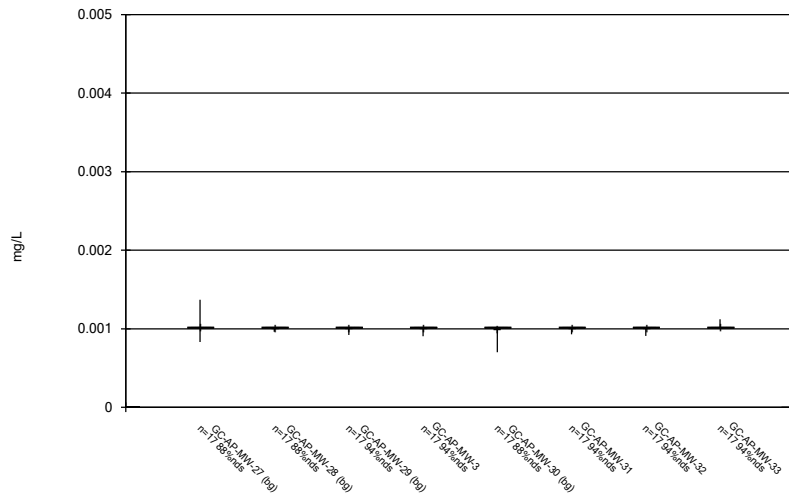
Constituent: Antimony Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



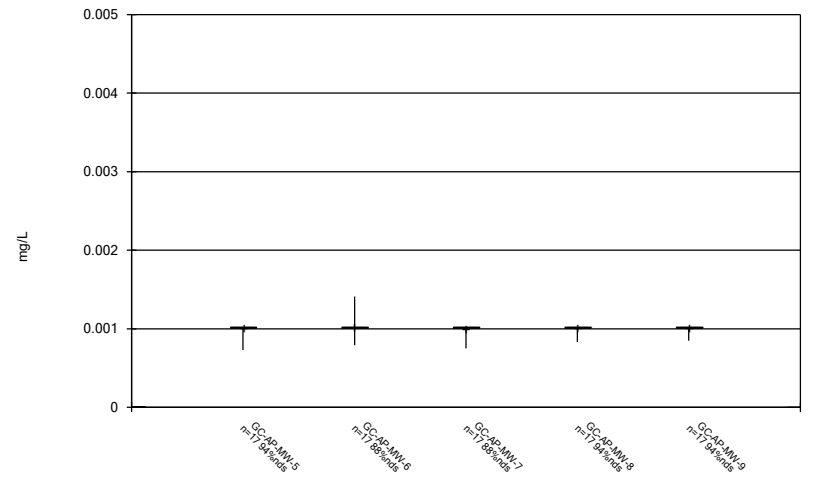
Constituent: Antimony Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



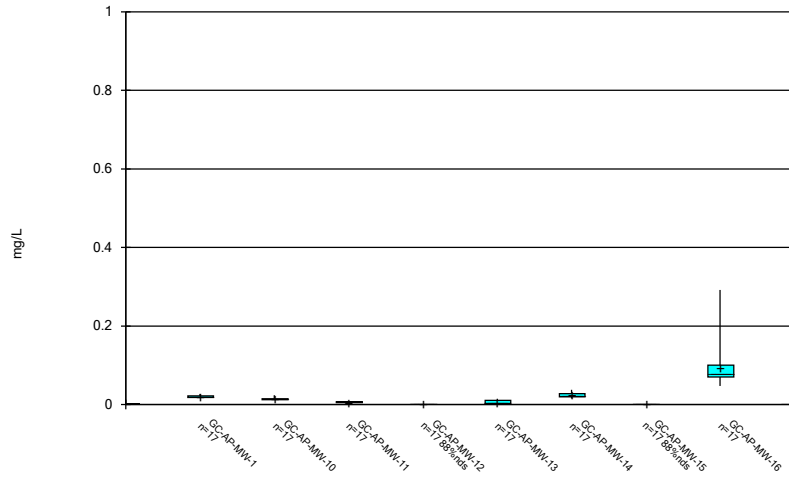
Constituent: Antimony Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



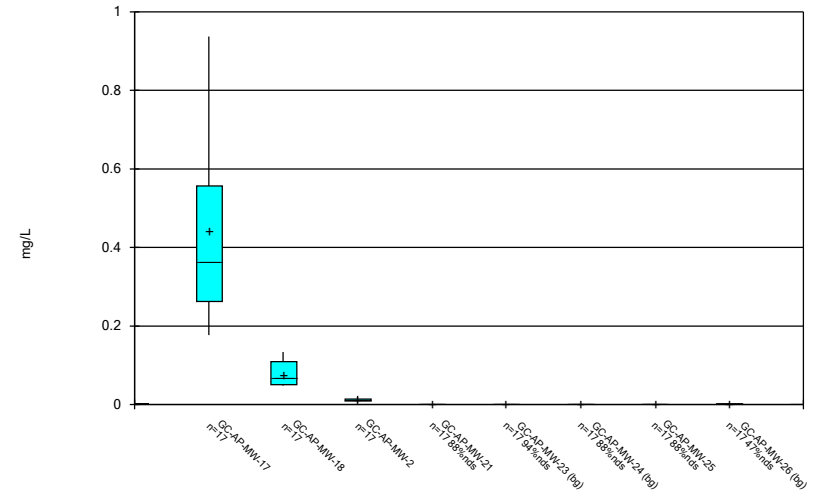
Constituent: Antimony Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



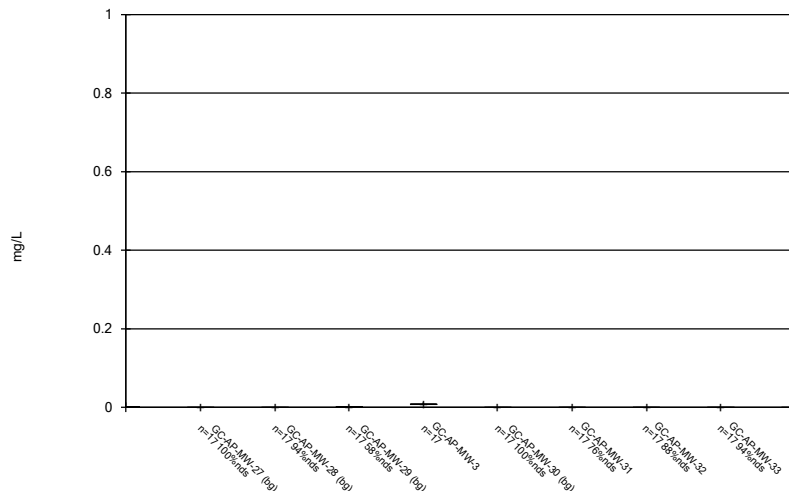
Constituent: Arsenic Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



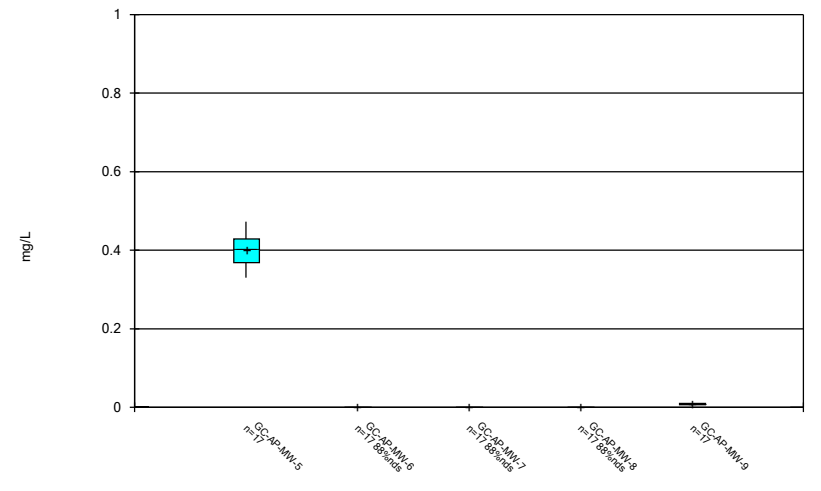
Constituent: Arsenic Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



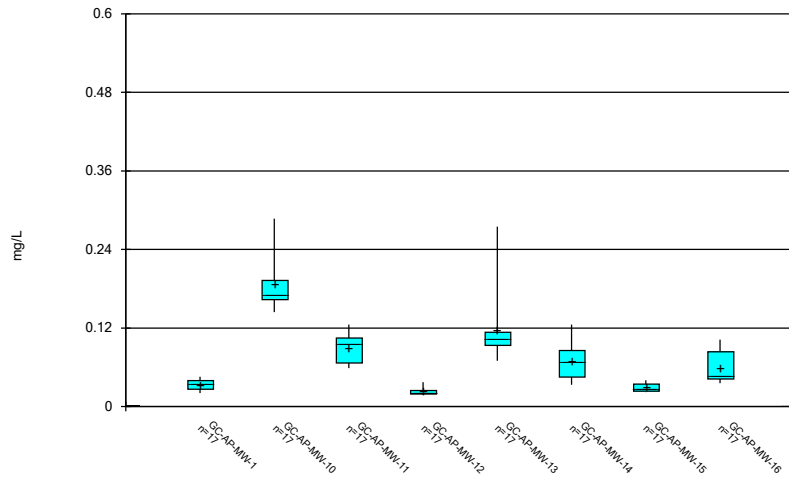
Constituent: Arsenic Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



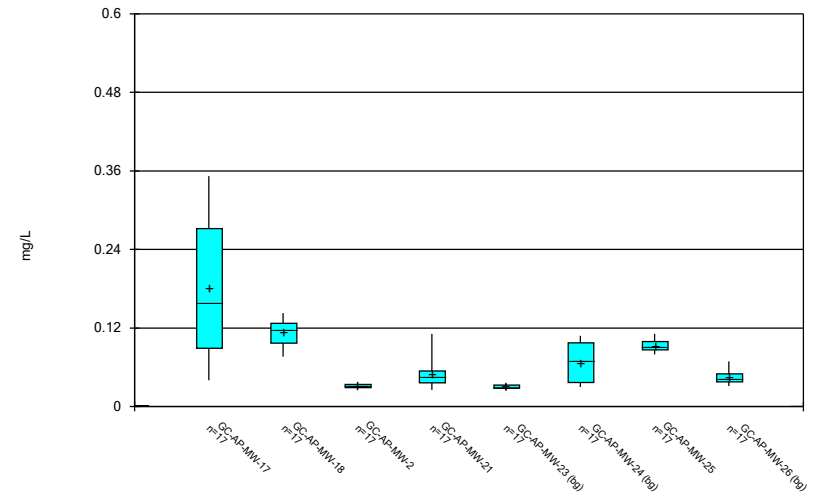
Constituent: Arsenic Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



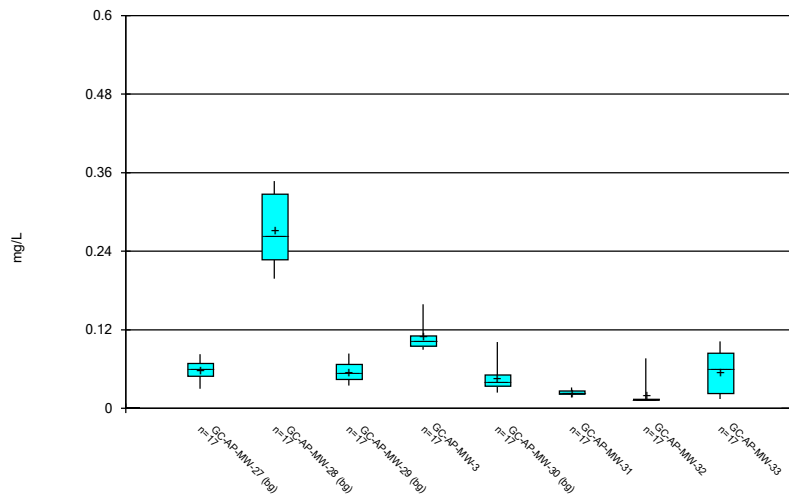
Constituent: Barium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



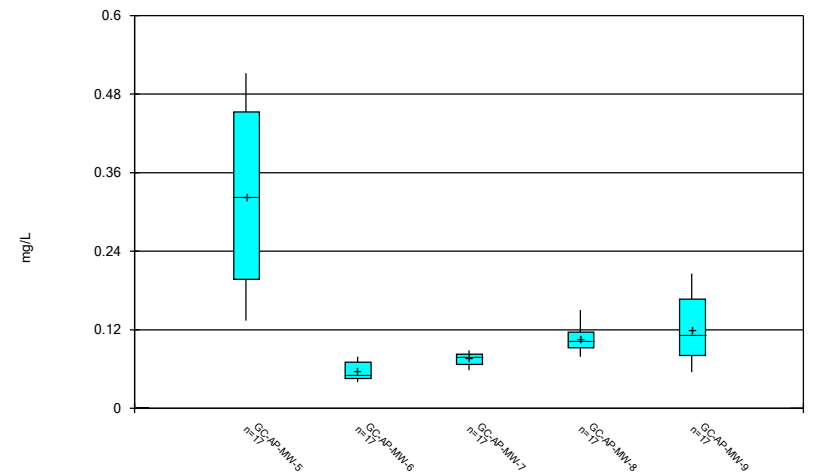
Constituent: Barium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



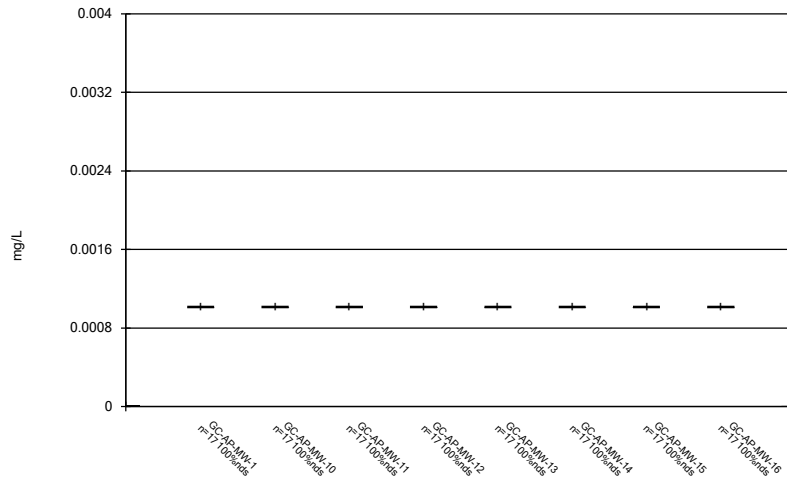
Constituent: Barium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



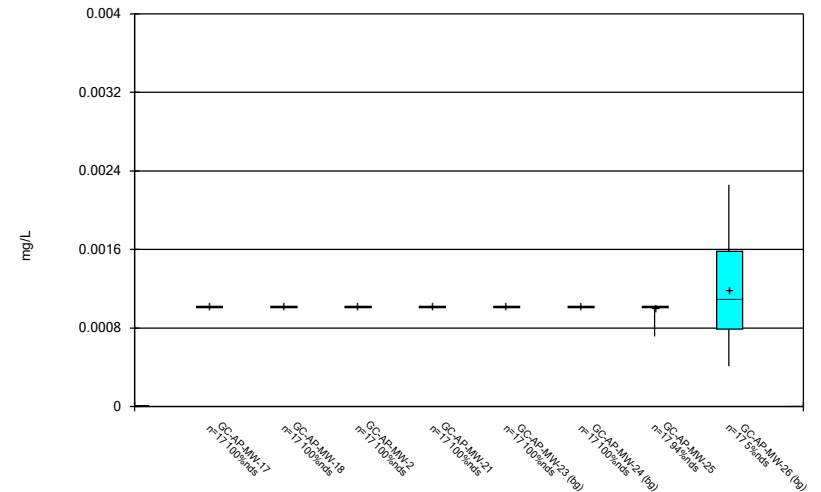
Constituent: Barium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



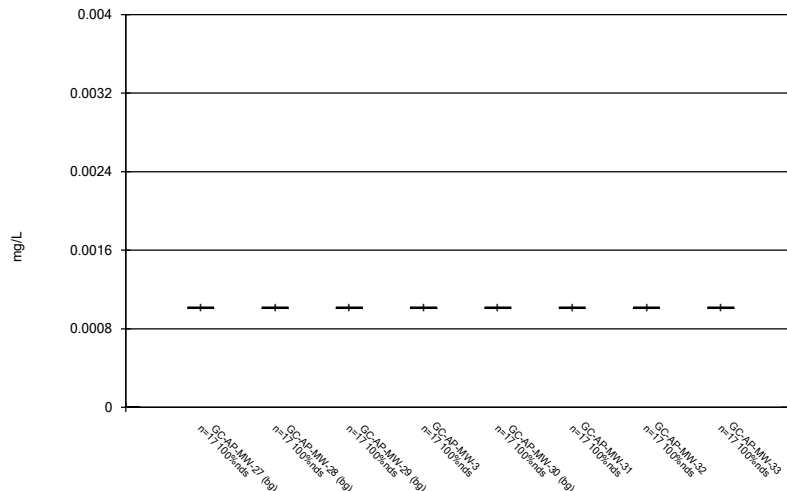
Constituent: Beryllium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



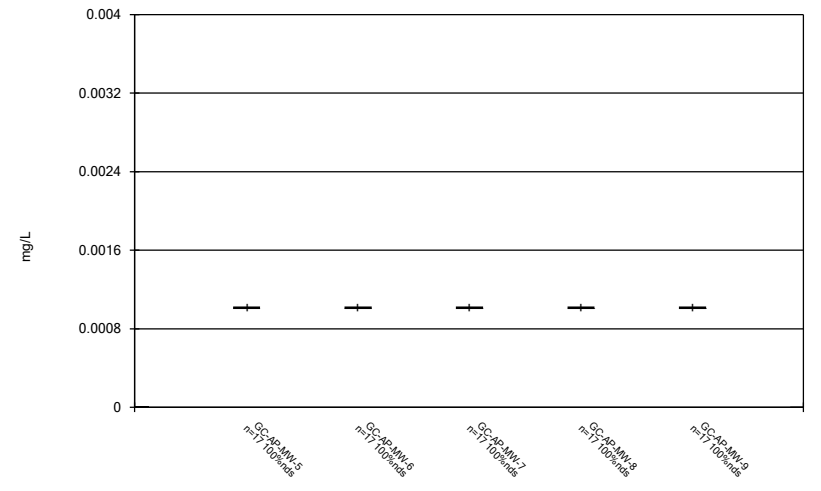
Constituent: Beryllium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



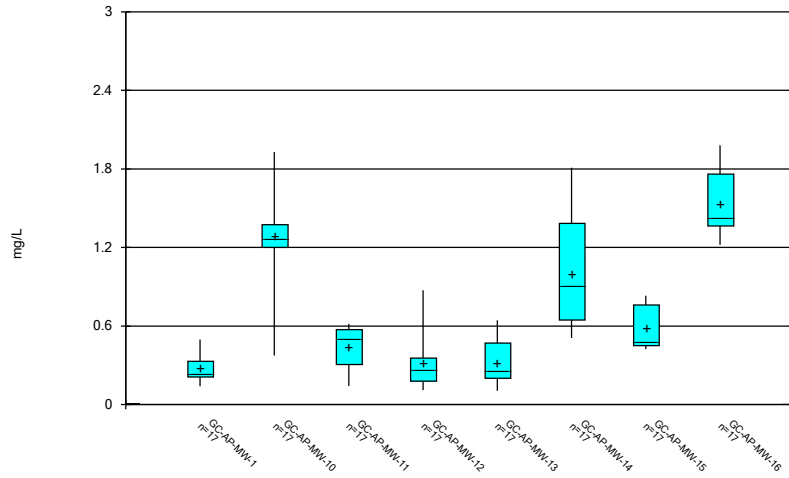
Constituent: Beryllium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



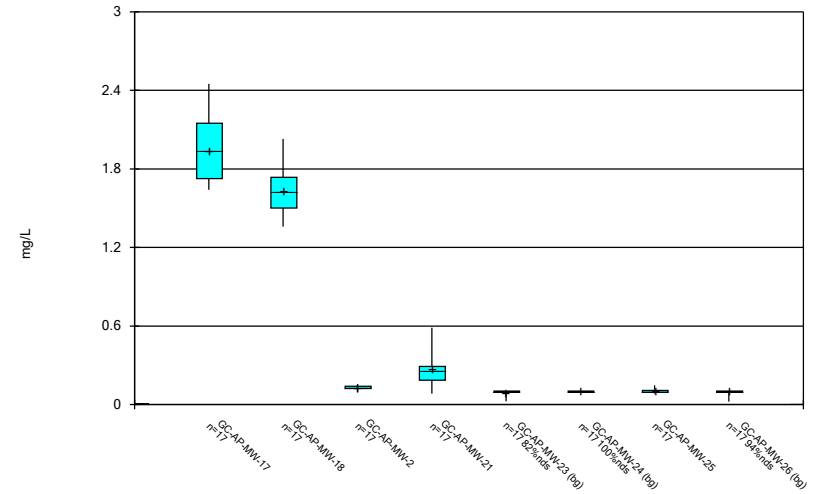
Constituent: Beryllium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



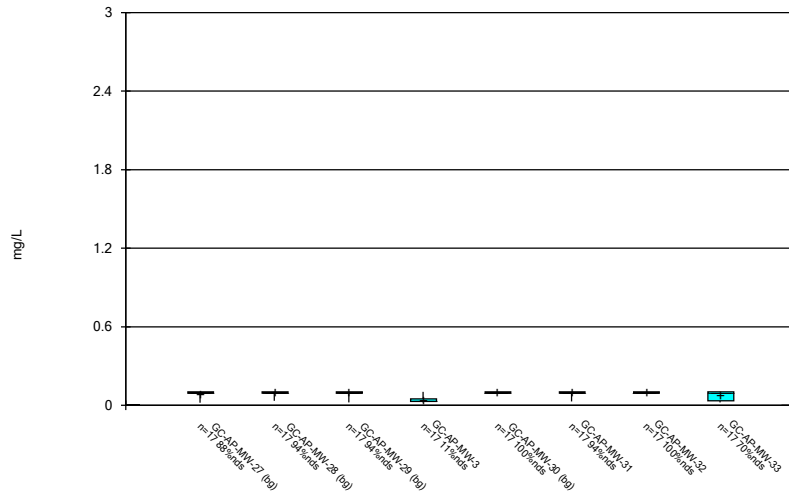
Constituent: Boron Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



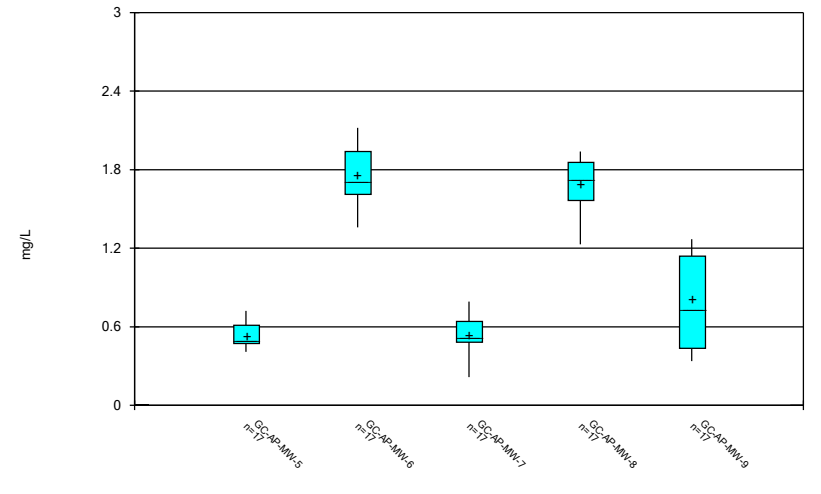
Constituent: Boron Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



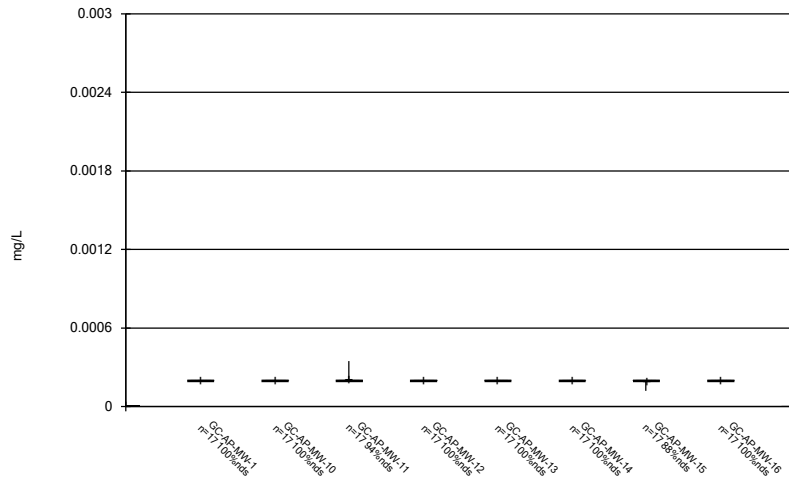
Constituent: Boron Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



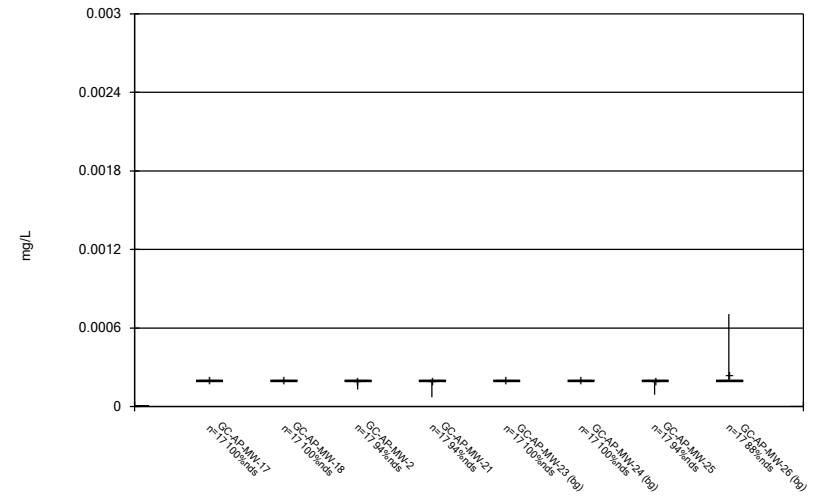
Constituent: Boron Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



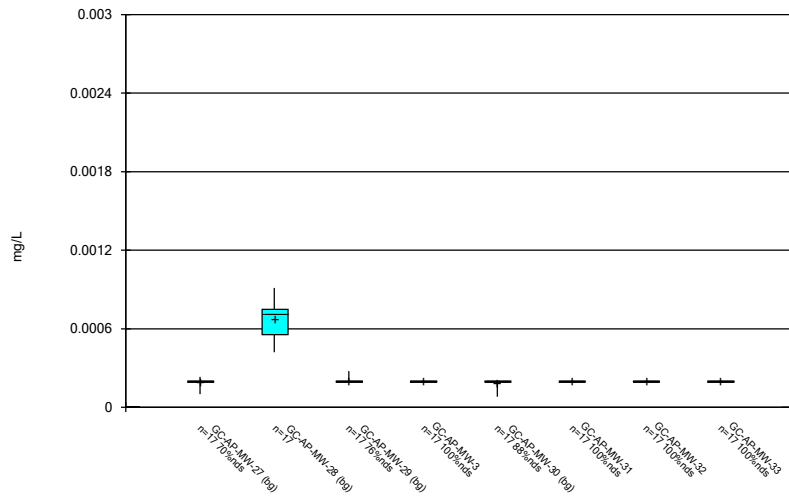
Constituent: Cadmium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



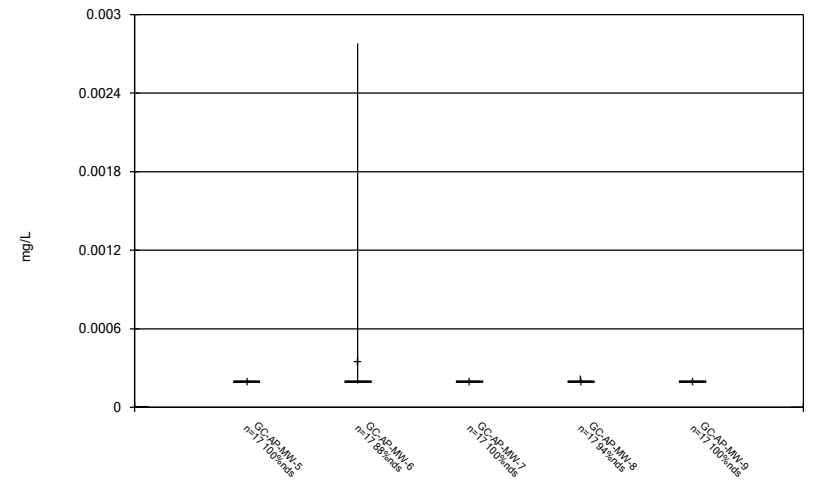
Constituent: Cadmium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



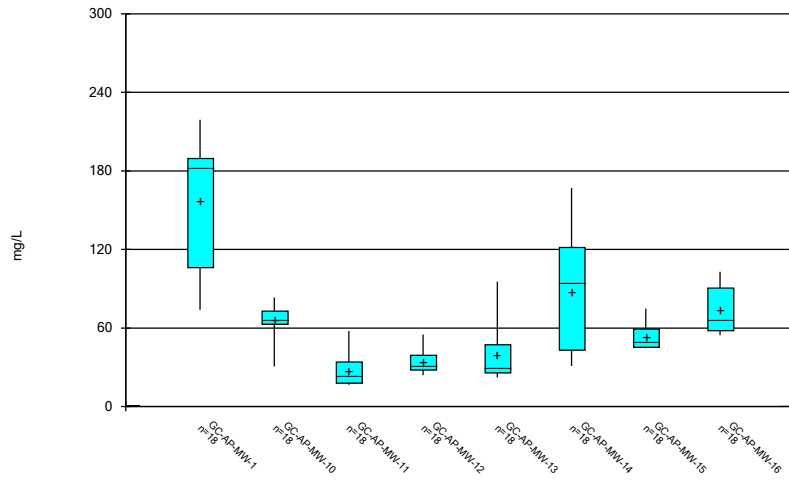
Constituent: Cadmium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



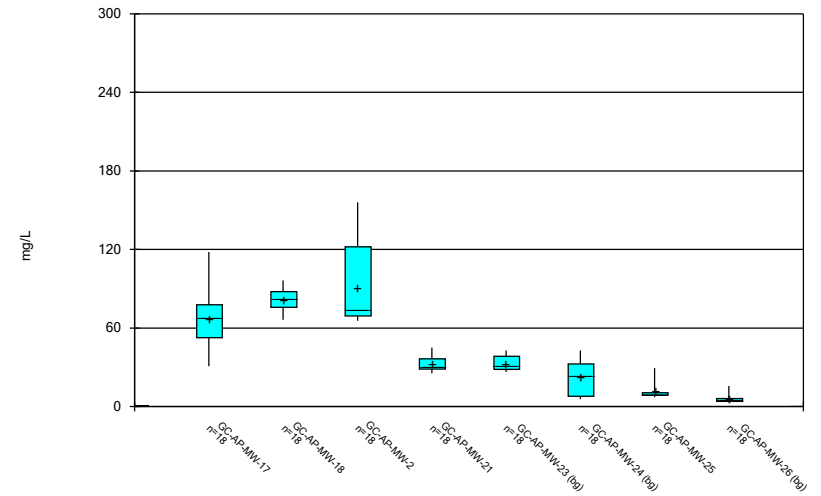
Constituent: Cadmium Analysis Run 11/19/2021 7:57 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



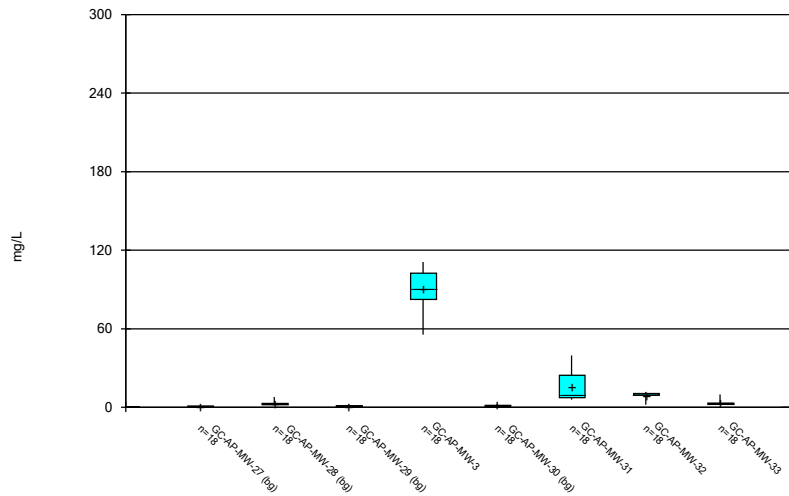
Constituent: Calcium Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



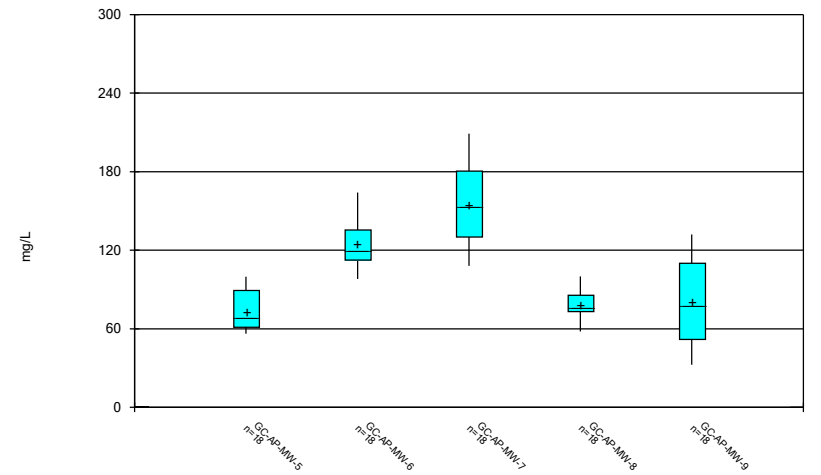
Constituent: Calcium Analysis Run 11/19/2021 7:57 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



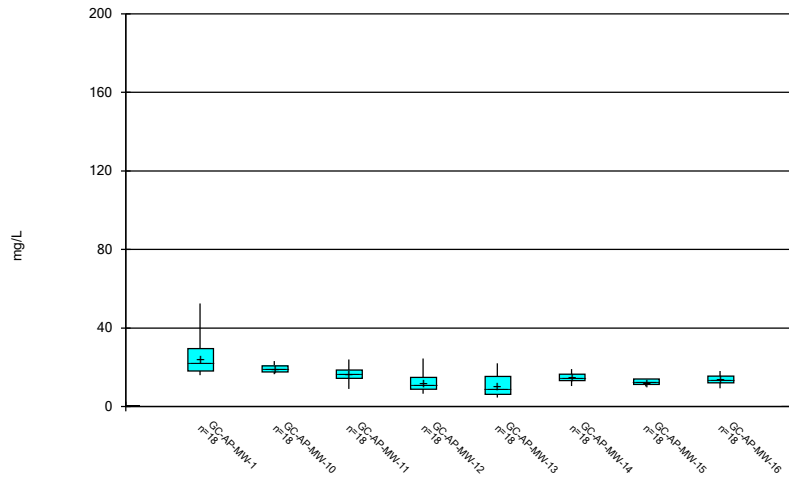
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



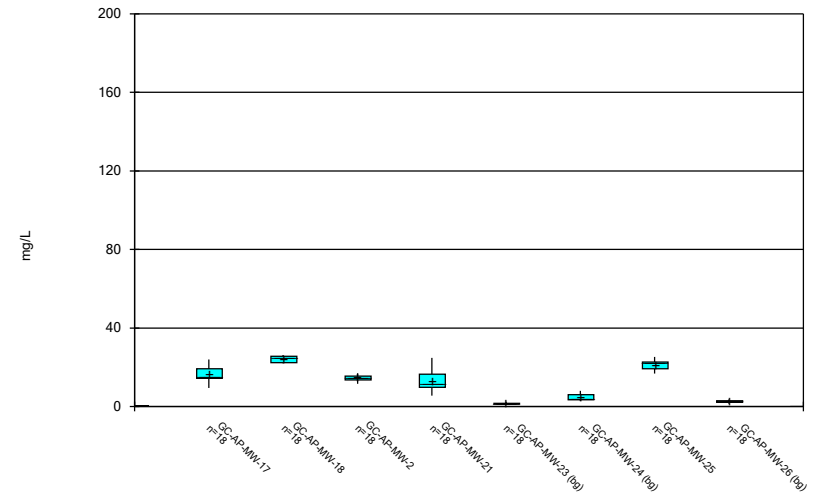
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



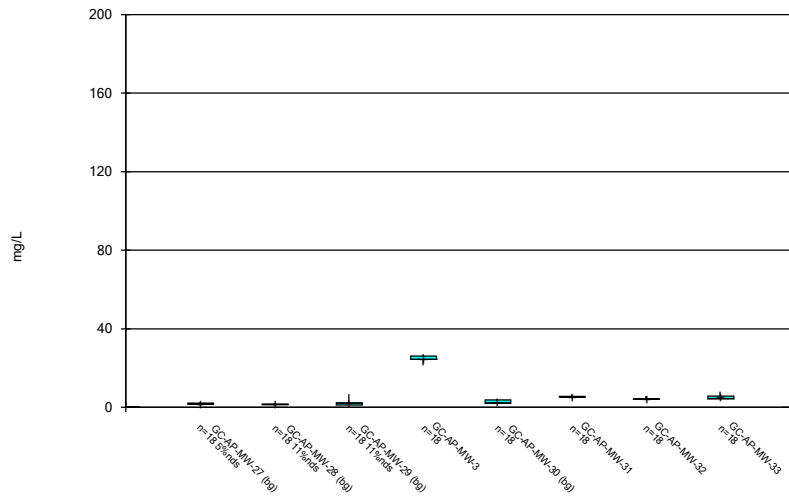
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



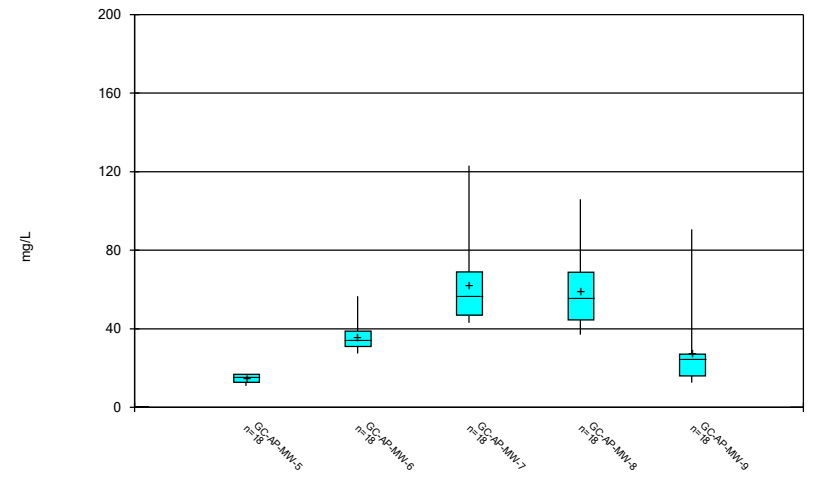
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



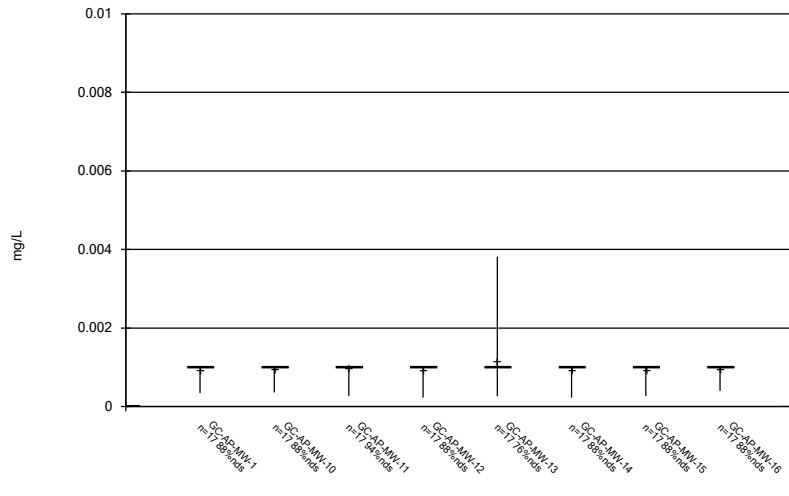
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Box & Whiskers Plot



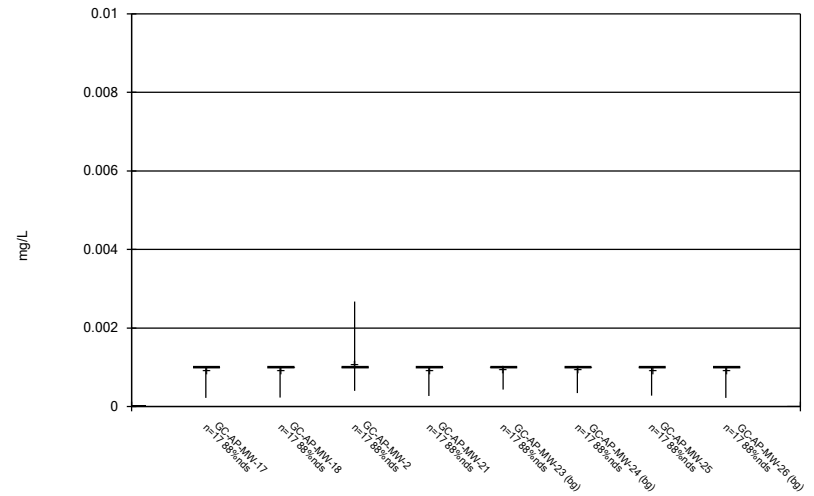
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



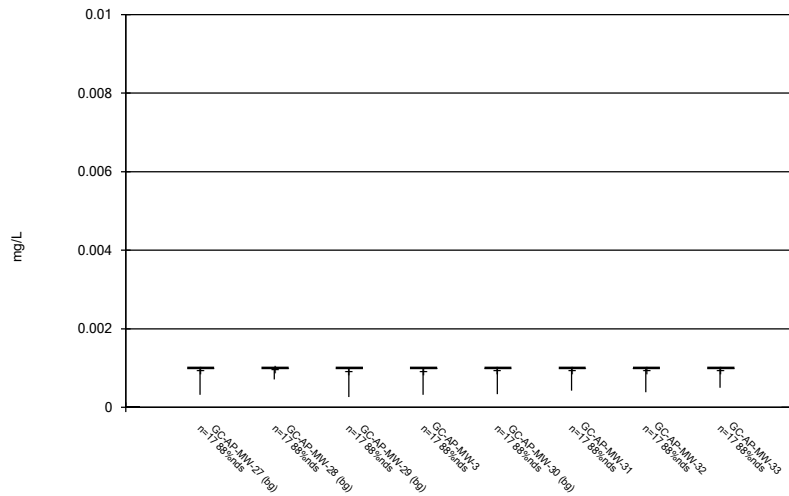
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



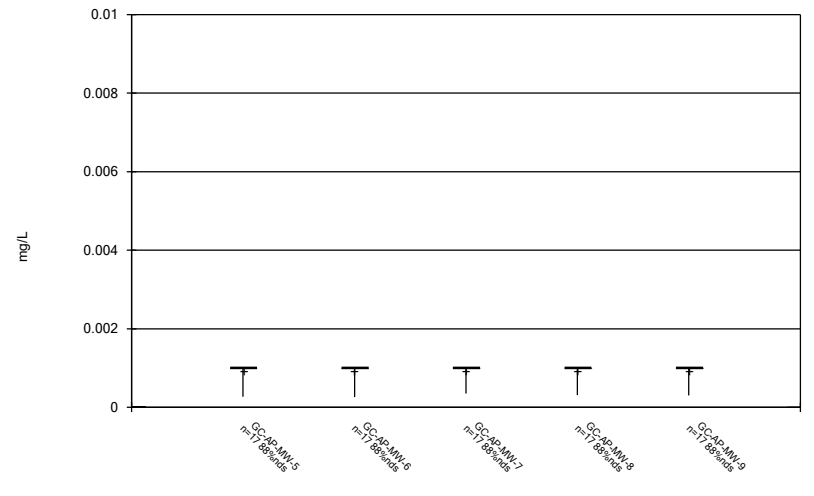
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Box & Whiskers Plot



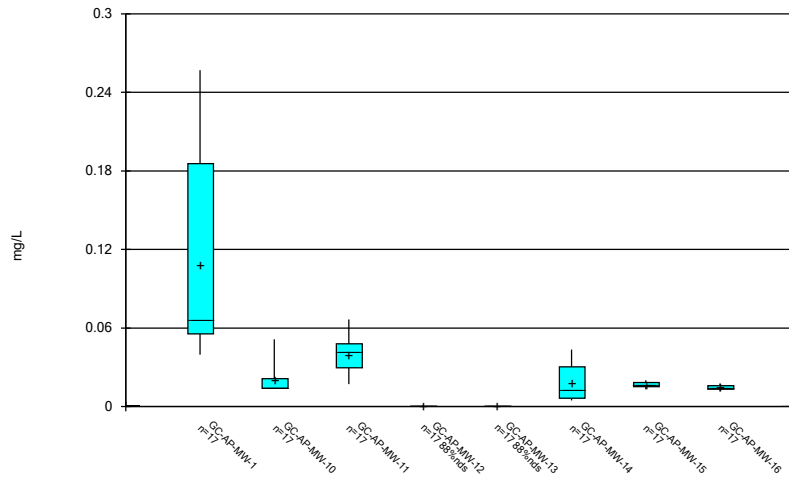
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Box & Whiskers Plot



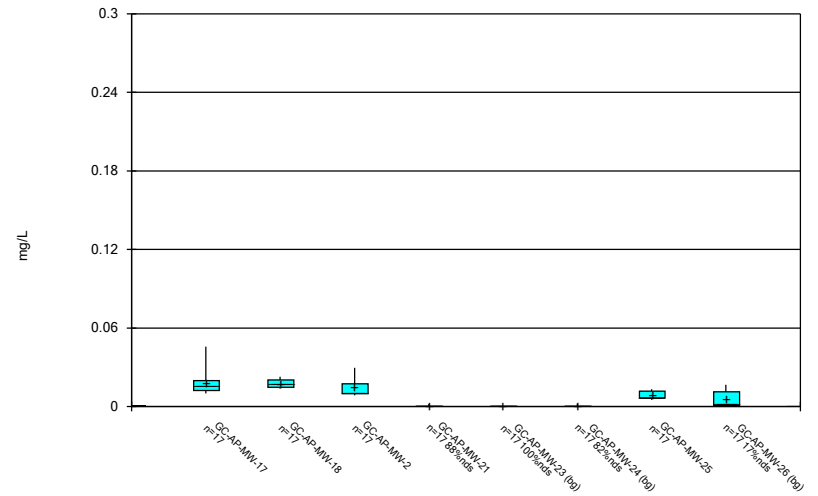
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Box & Whiskers Plot



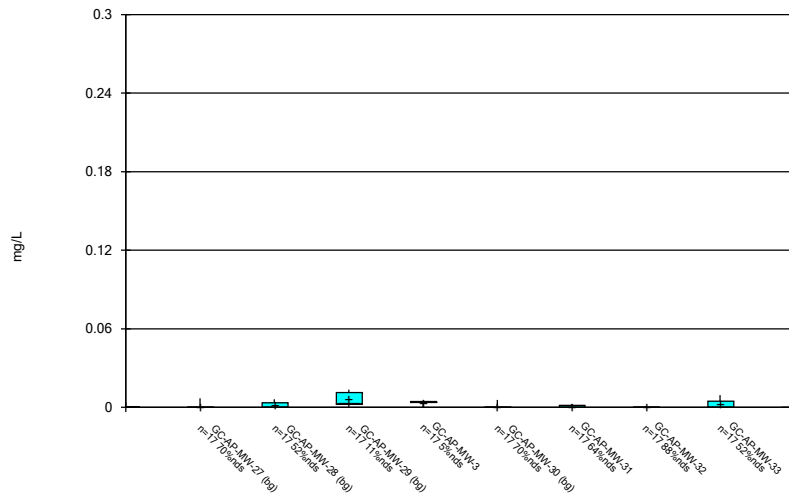
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Box & Whiskers Plot



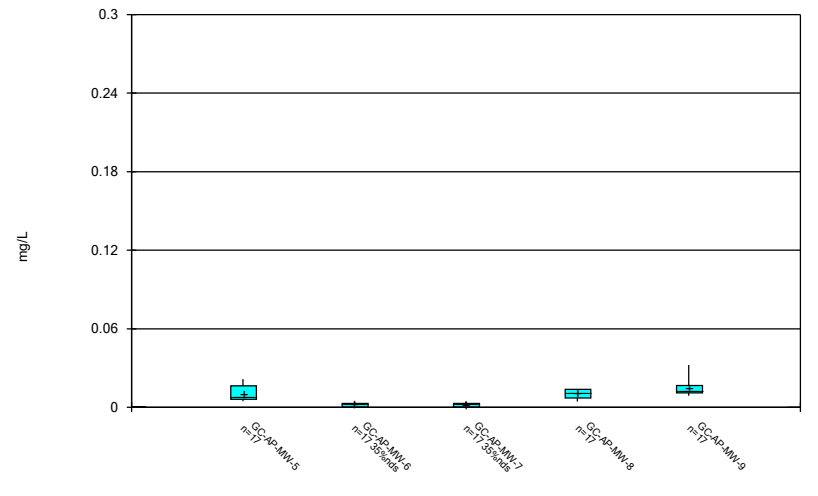
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



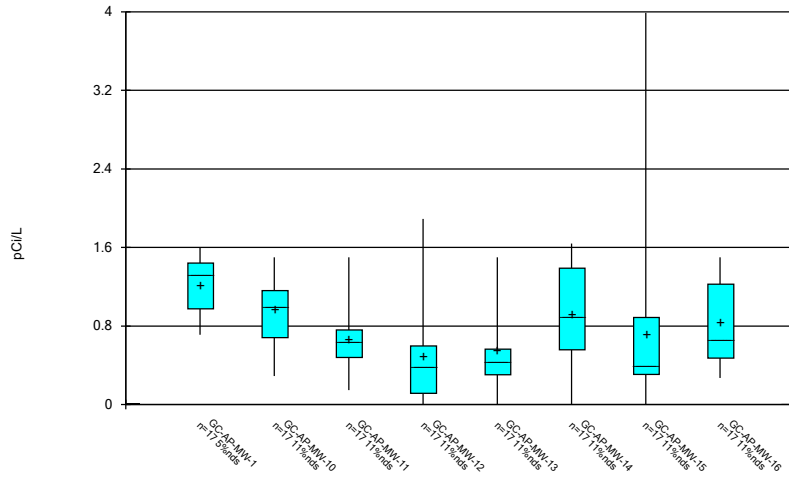
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



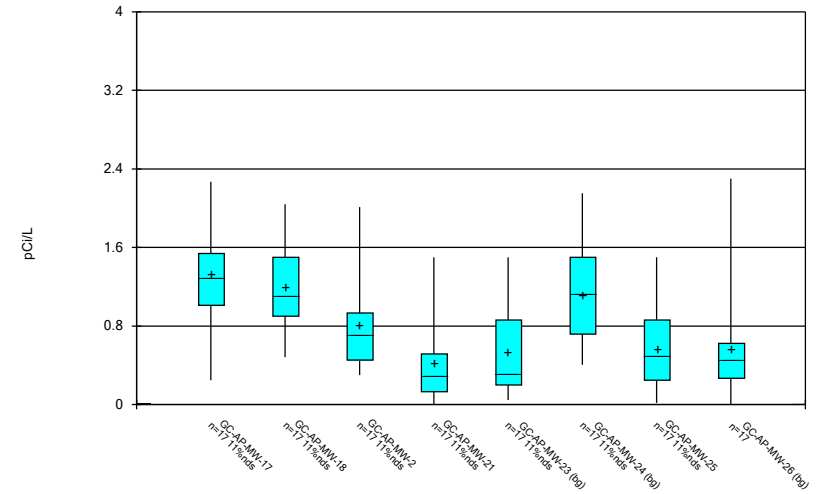
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



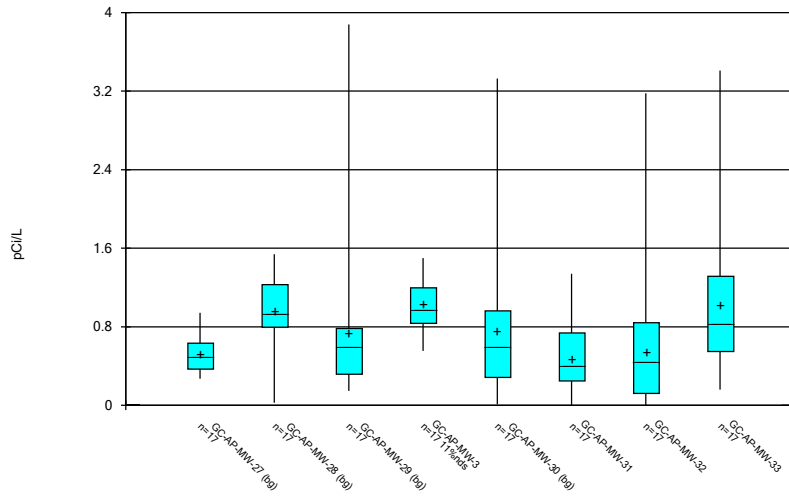
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



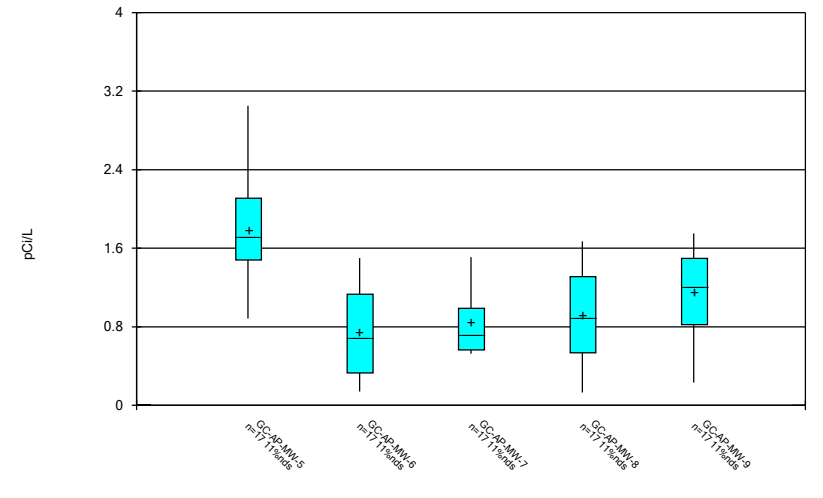
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



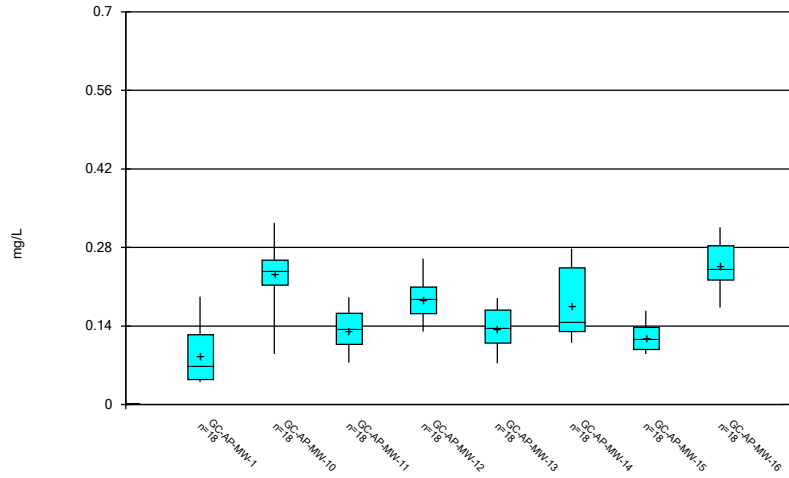
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



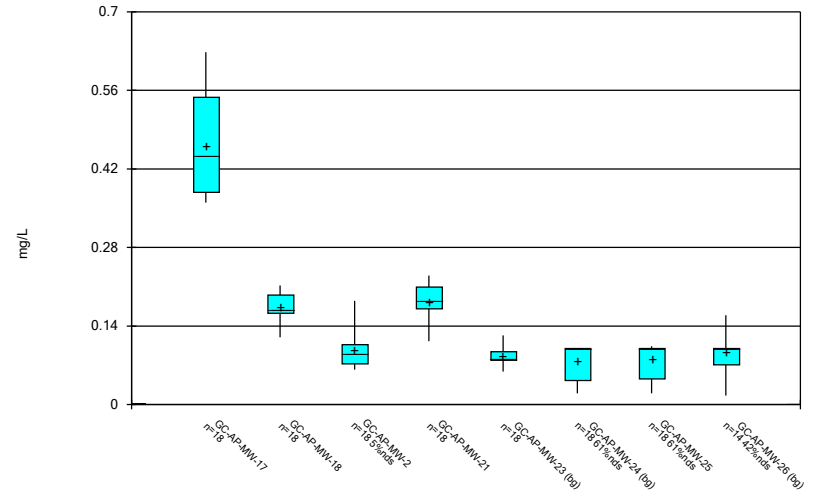
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



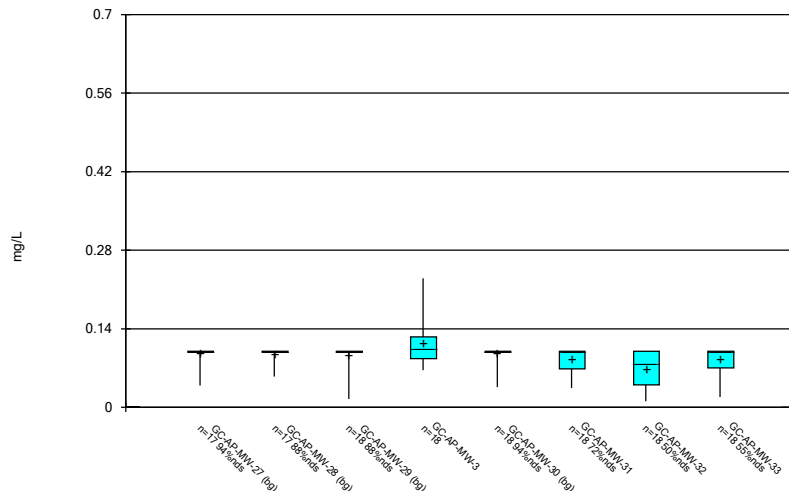
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



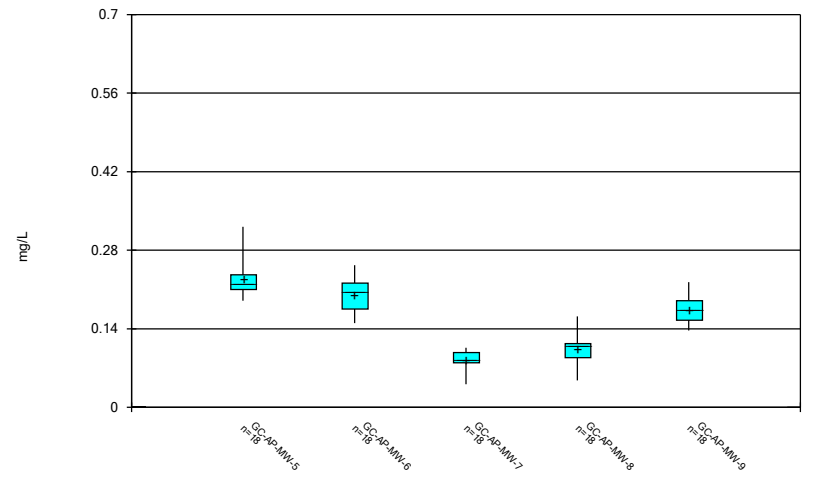
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



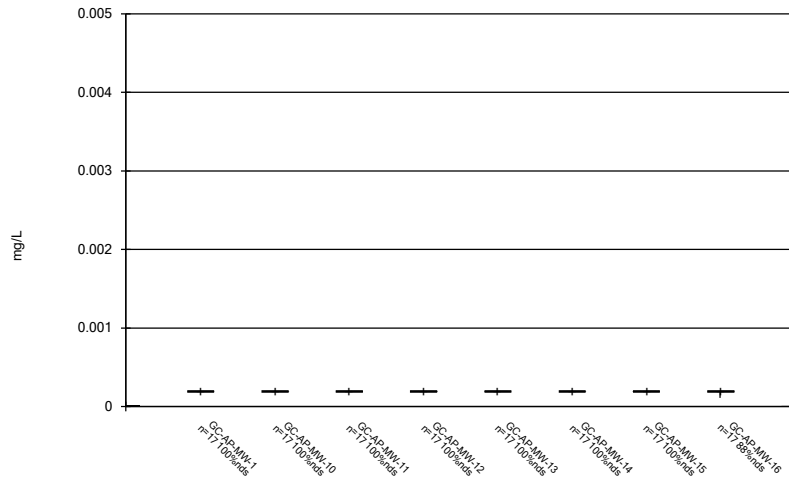
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



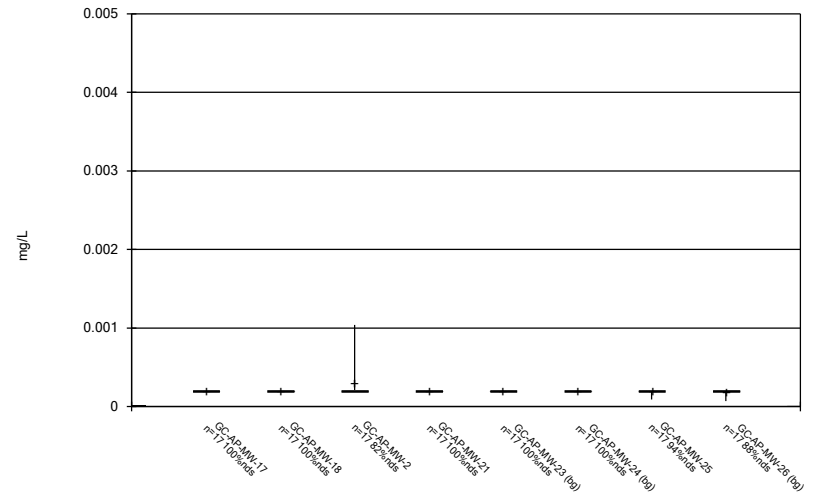
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



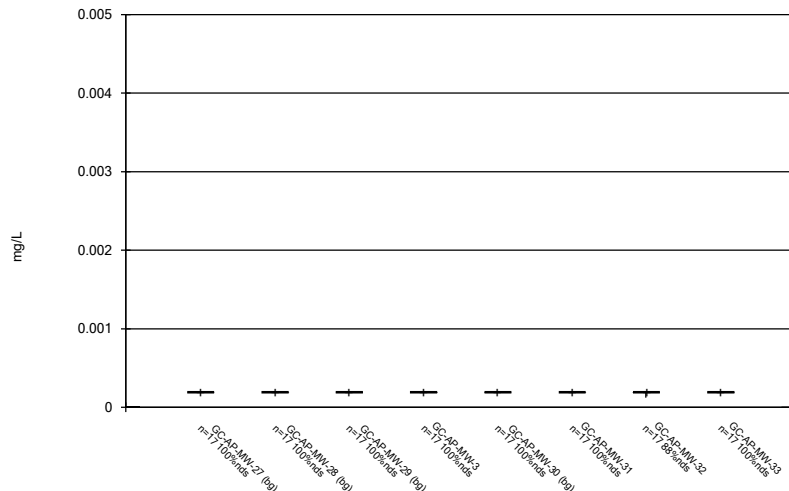
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



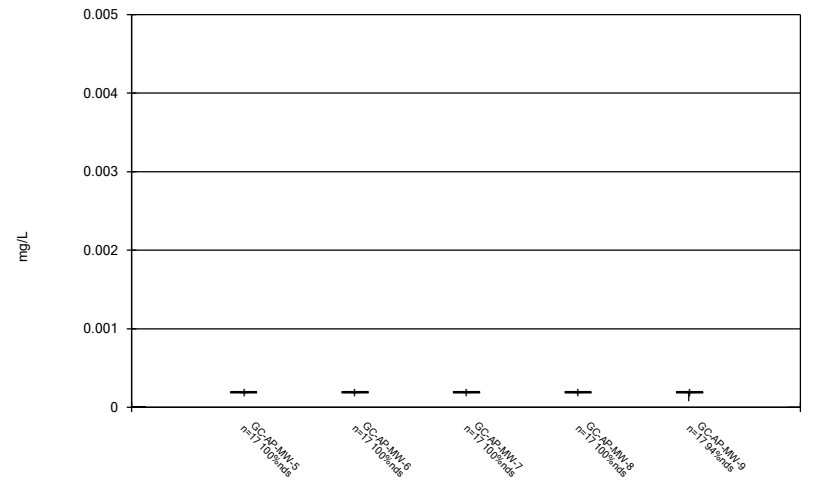
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



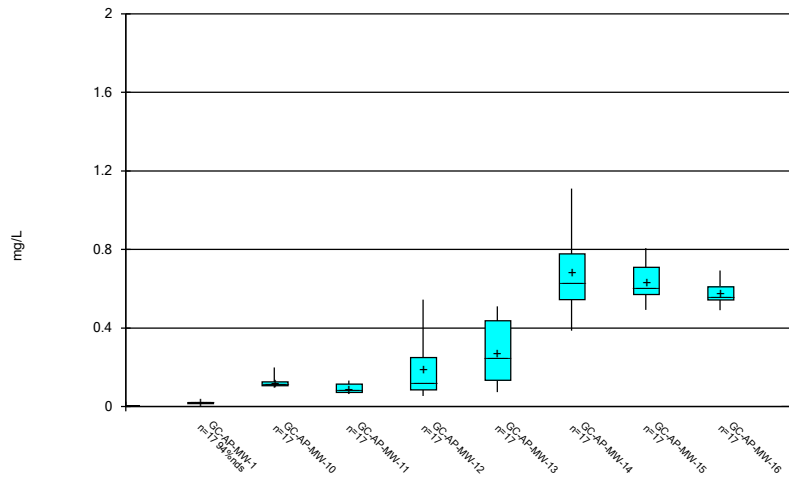
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



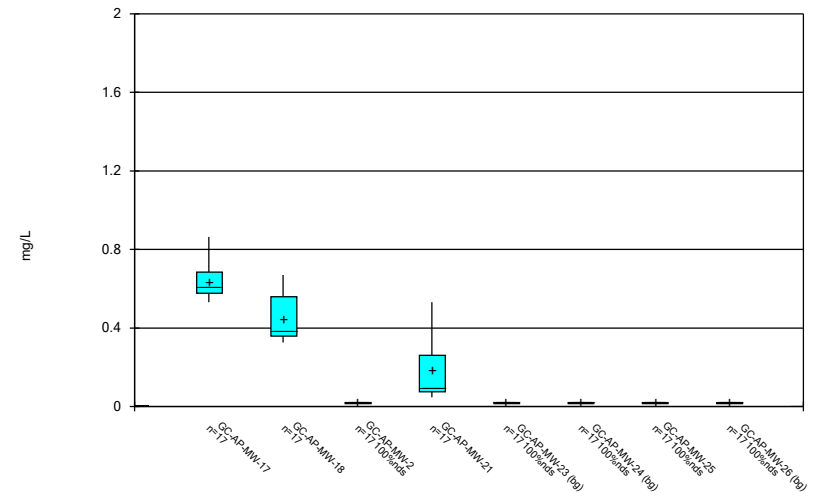
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



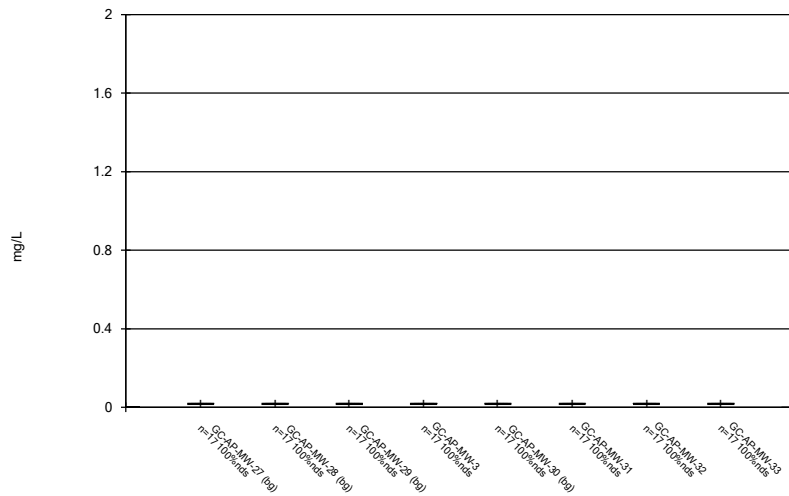
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



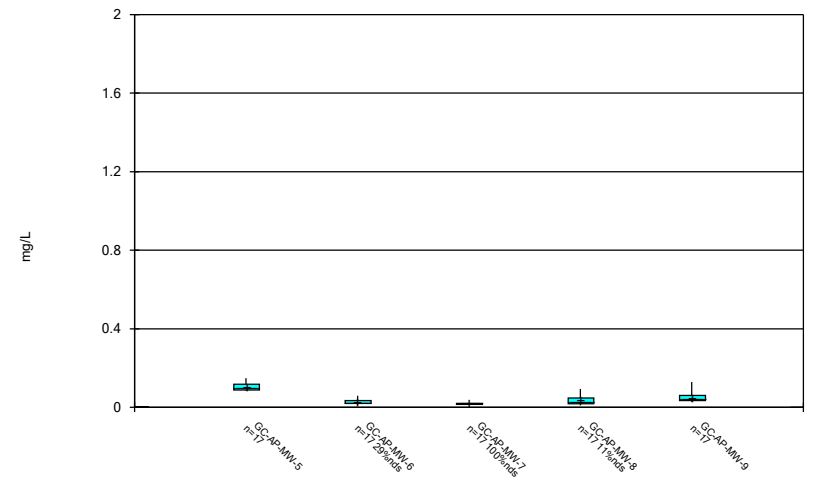
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Box & Whiskers Plot



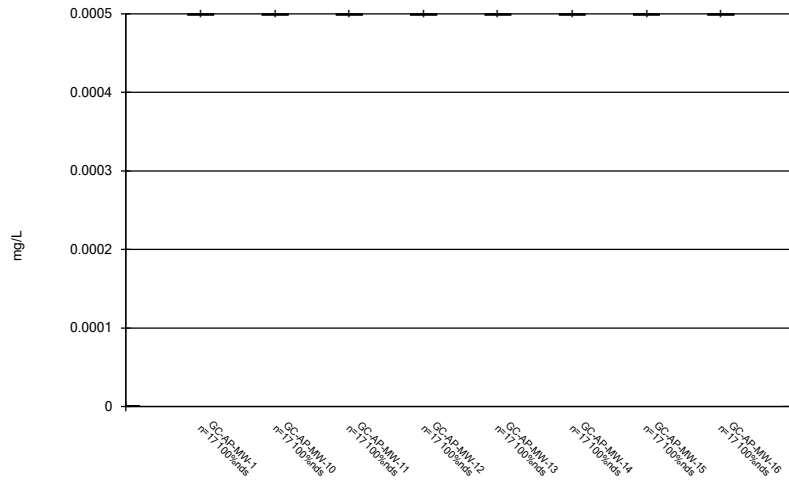
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



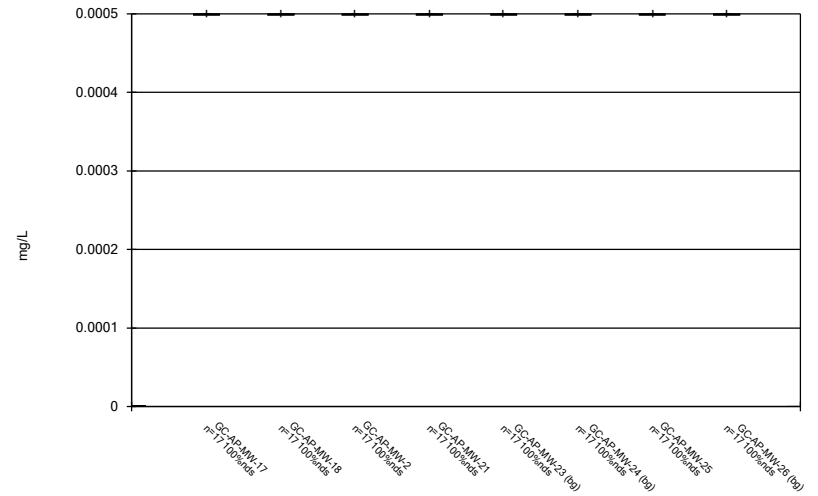
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



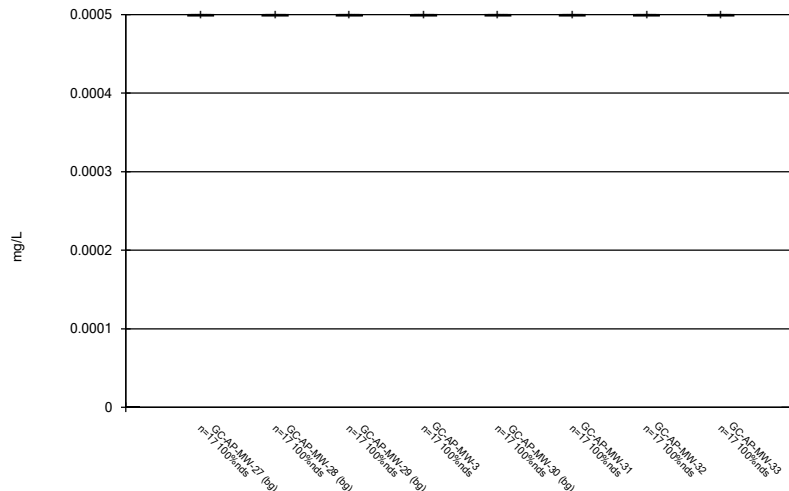
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



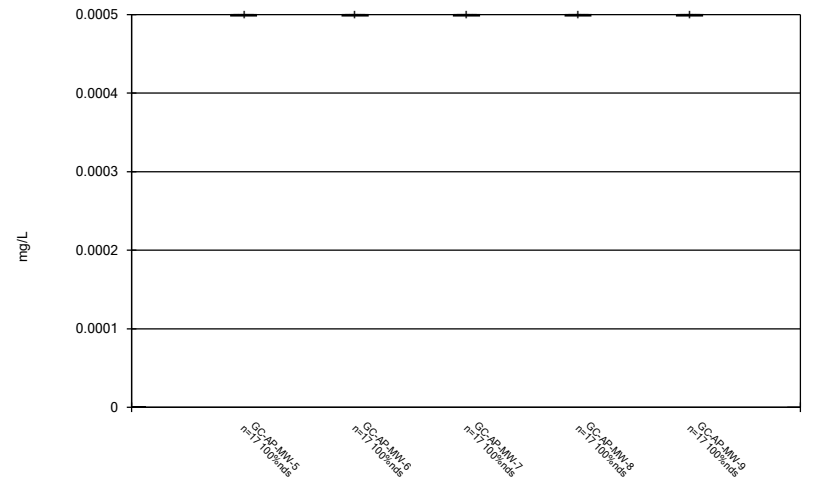
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



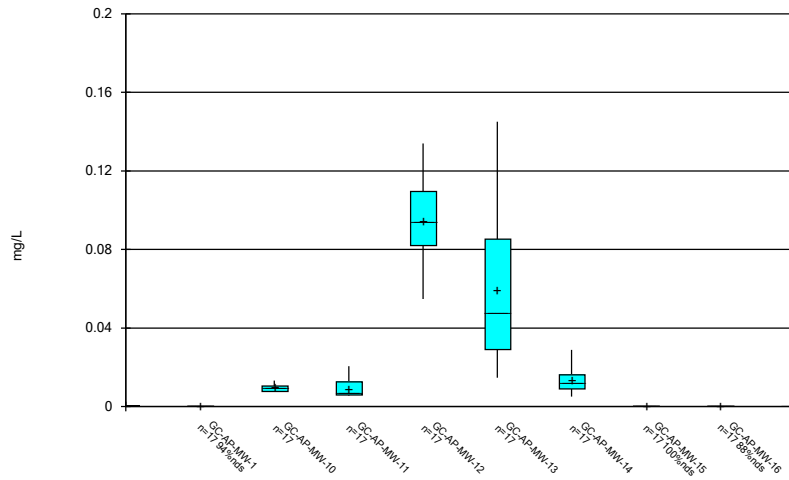
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Box & Whiskers Plot



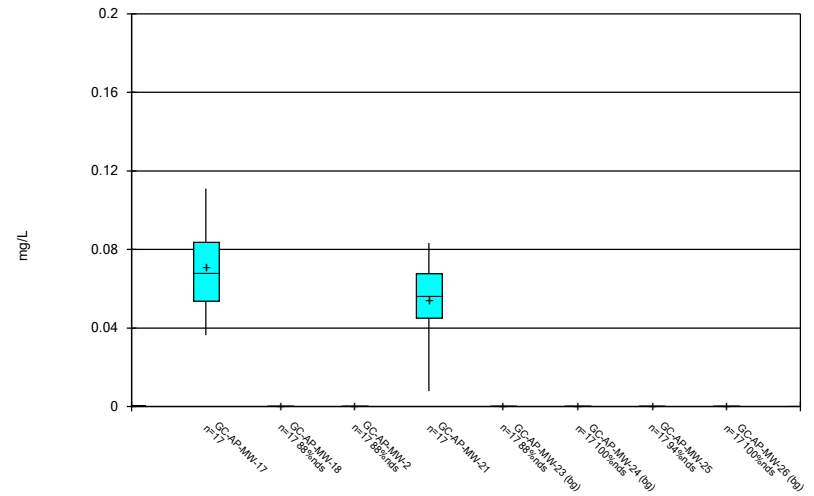
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Box & Whiskers Plot



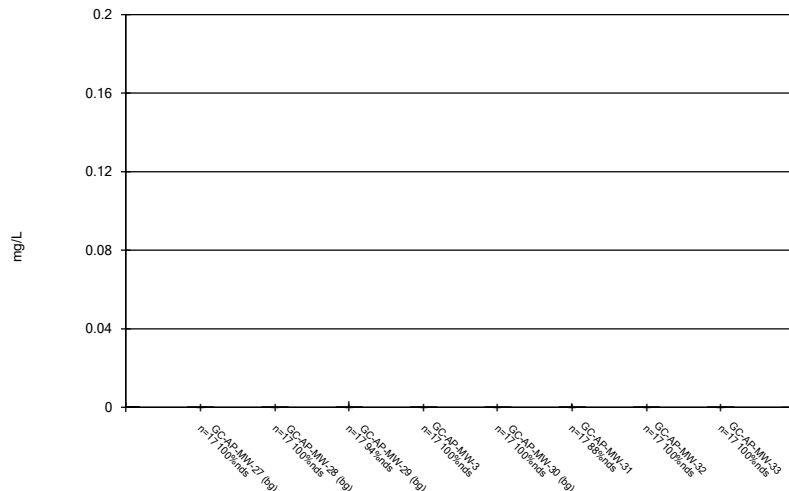
Constituent: Molybdenum Analysis Run 11/19/2021 7:58 AM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



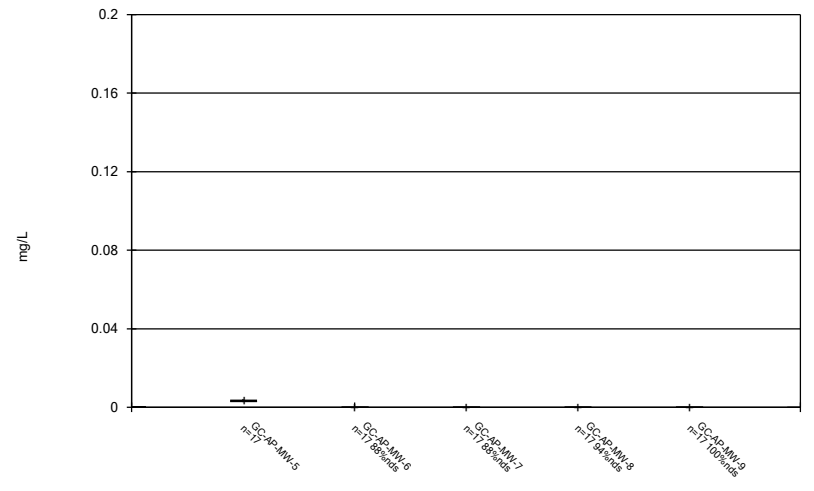
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



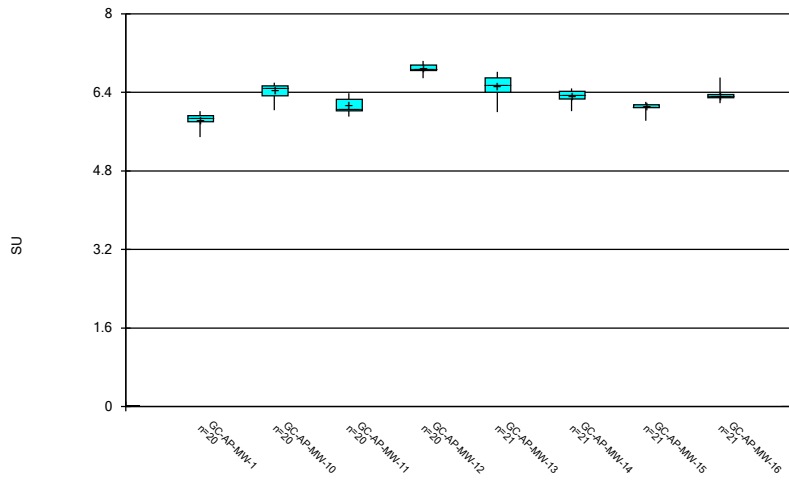
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



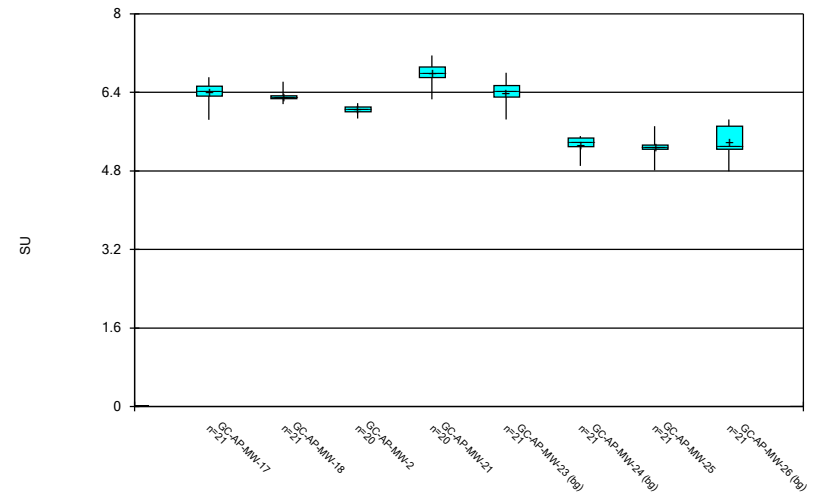
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



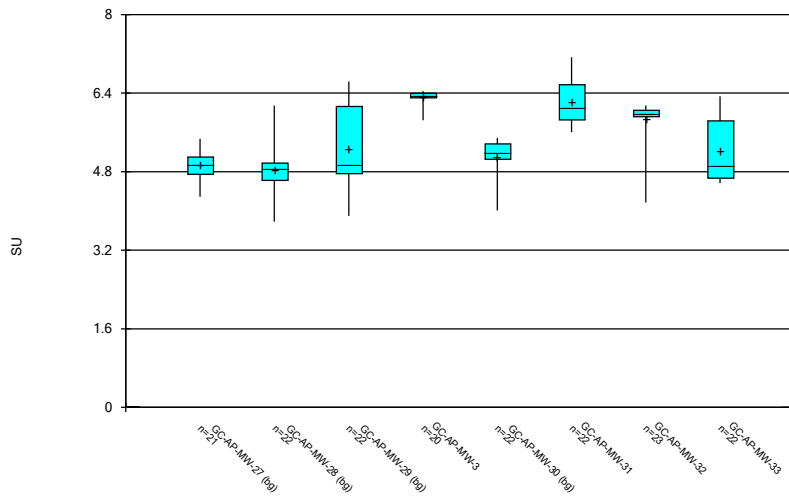
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



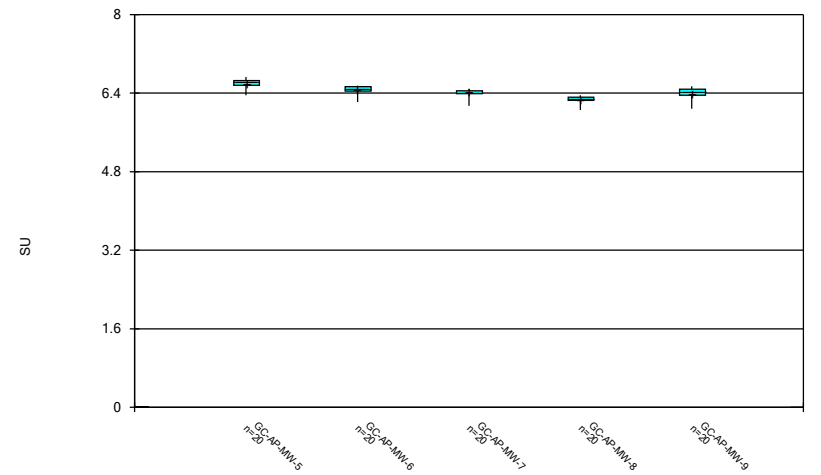
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



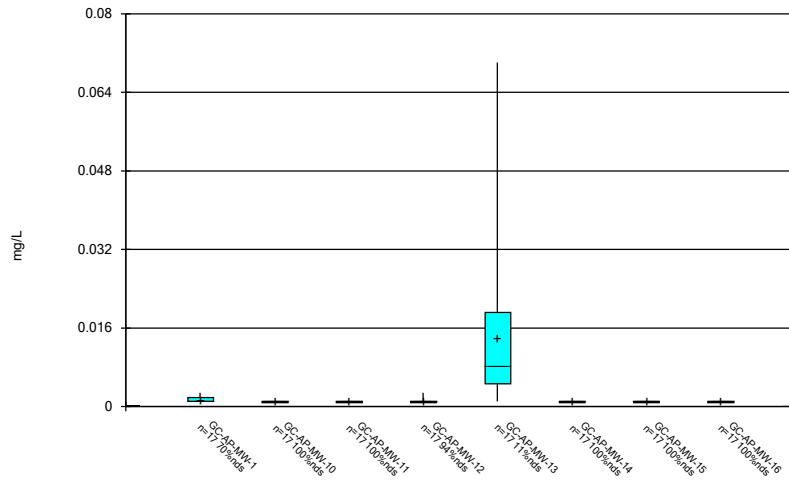
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



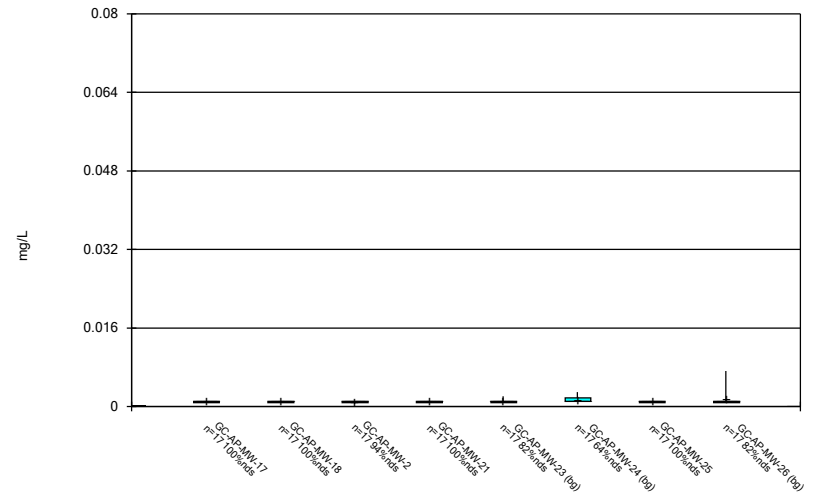
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



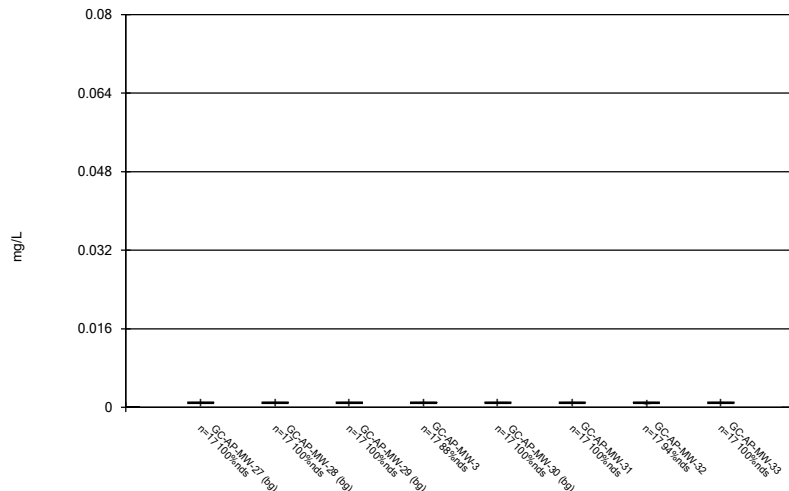
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



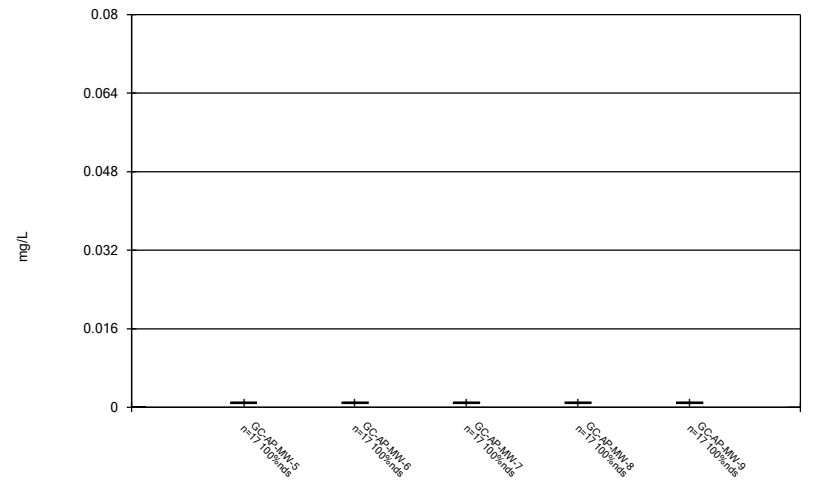
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



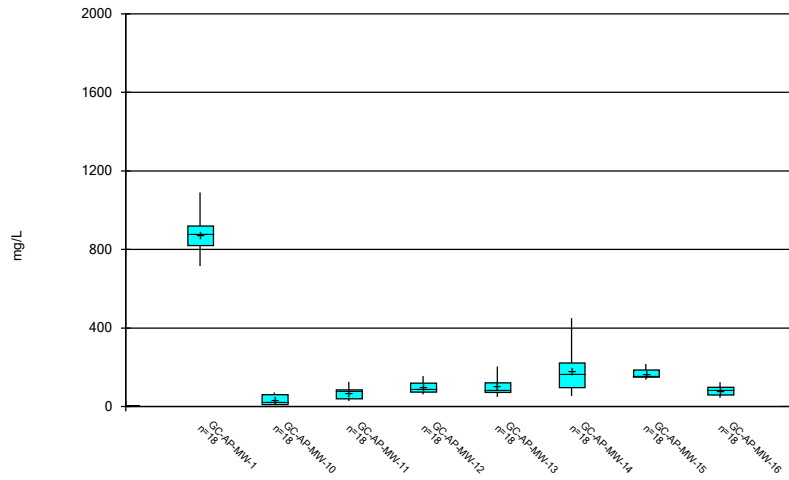
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



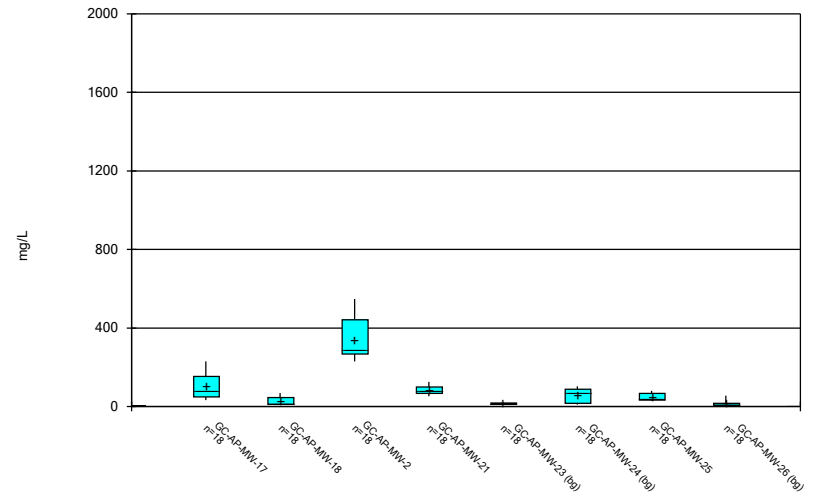
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



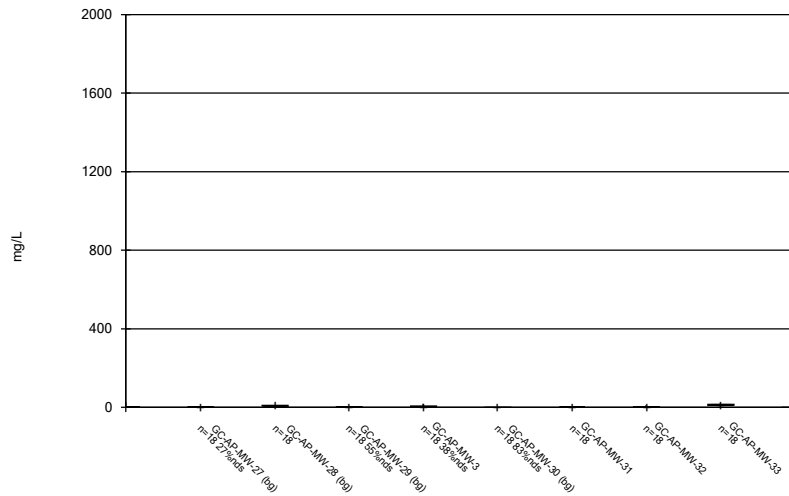
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



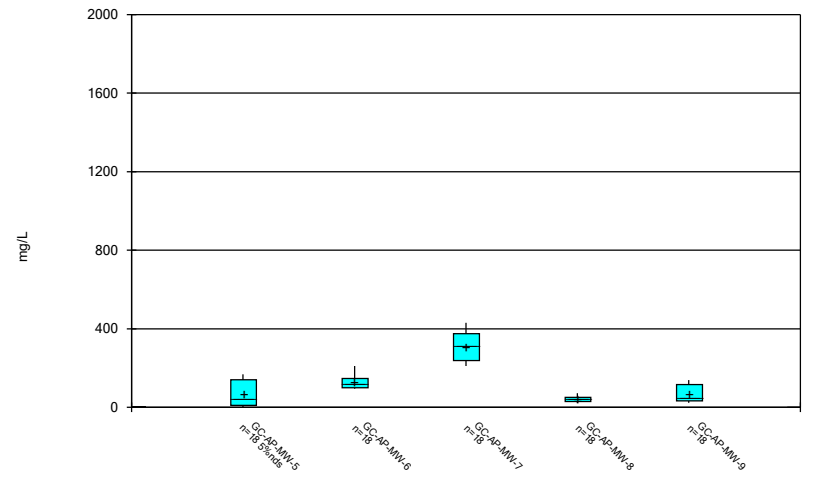
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



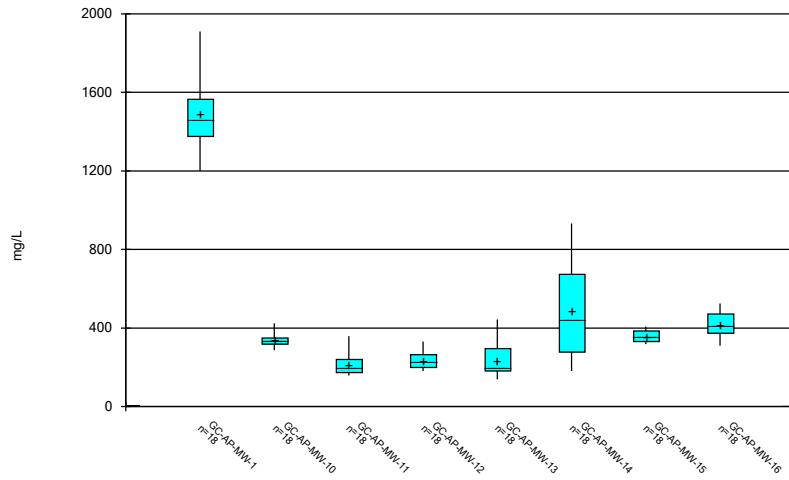
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



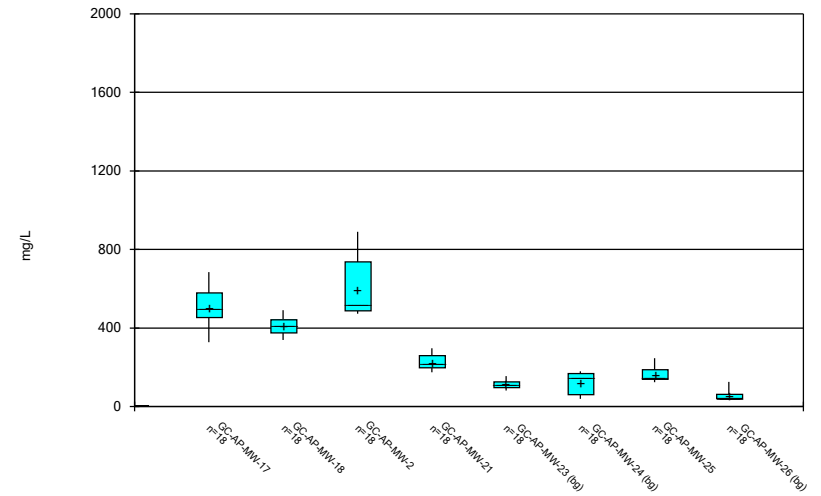
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



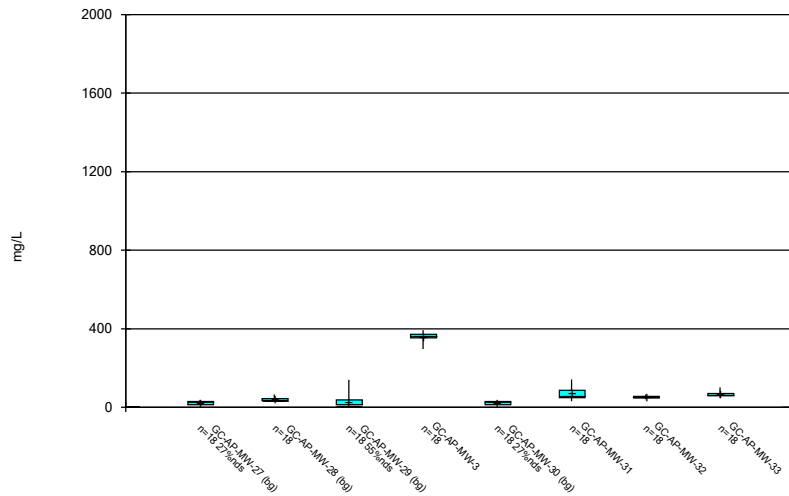
Constituent: TDS Analysis Run 11/19/2021 7:58 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



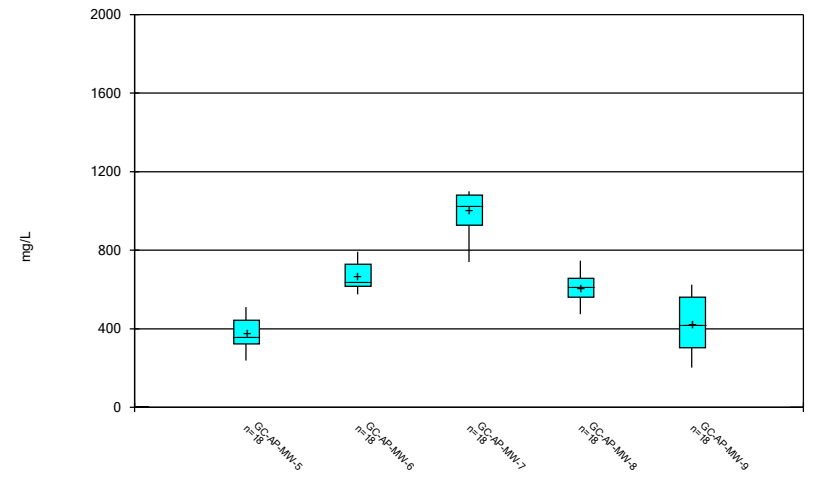
Constituent: TDS Analysis Run 11/19/2021 7:58 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



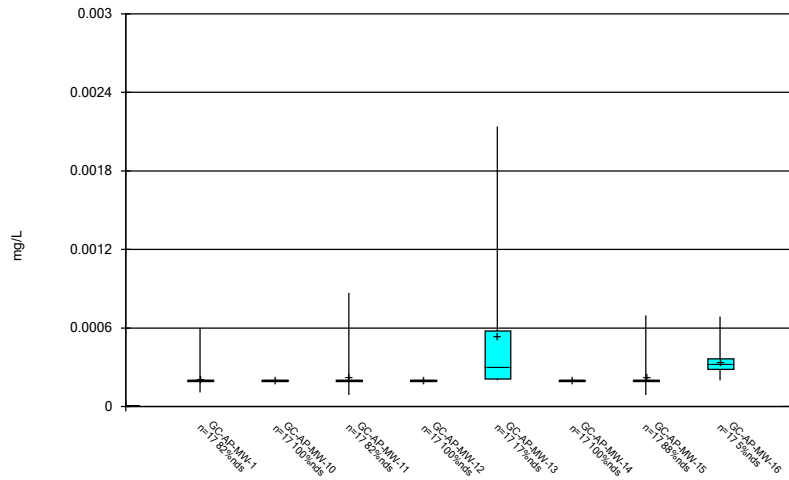
Constituent: TDS Analysis Run 11/19/2021 7:58 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



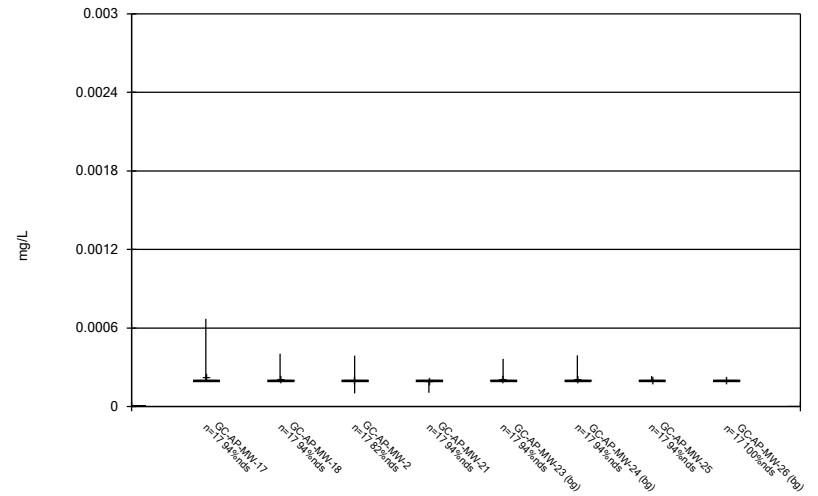
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



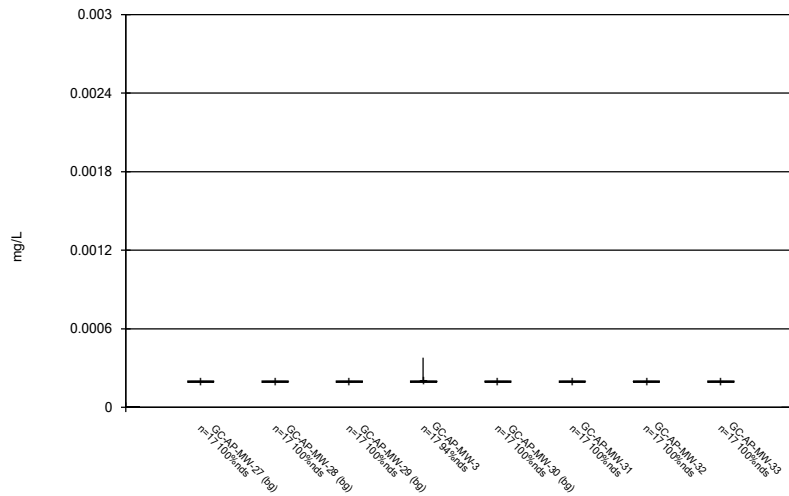
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



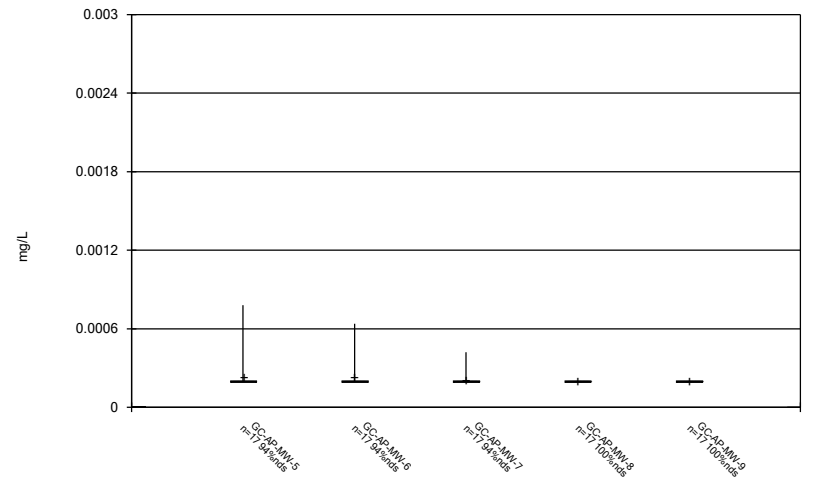
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/19/2021 7:58 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/19/2021 7:58 AM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE C.

Outlier Summary

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/19/2021, 8:04 AM

GC-AP-MW-26 Fluoride (mg/L)
GC-AP-MW-27 Fluoride (mg/L)
GC-AP-MW-28 Fluoride (mg/L)

9/20/2016	0.01 (o)	0.021 (o)
3/13/2017	0.31 (o)	
5/9/2017	0.25 (o)	
6/27/2017	0.22 (o)	
8/29/2017	0.22 (o)	

FIGURE D.

Interwell Prediction Limit - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 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)	GC-AP-MW-1	0.1015	n/a	8/17/2021	0.281	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	8/24/2021	1.93	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	8/25/2021	0.601	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	8/25/2021	0.393	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	8/25/2021	0.438	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	8/25/2021	1.33	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	8/25/2021	0.83	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	8/17/2021	1.98	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	8/17/2021	2.18	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	8/17/2021	1.45	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	8/17/2021	0.131	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	8/25/2021	0.288	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	8/24/2021	0.115	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	8/23/2021	0.628	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	8/24/2021	1.36	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	8/24/2021	0.216	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	8/24/2021	1.23	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	8/24/2021	1.14	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	8/17/2021	103	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	8/24/2021	83.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.8	n/a	8/25/2021	57.6	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	8/25/2021	45.2	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	8/25/2021	74.2	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	8/25/2021	134	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	8/25/2021	74.8	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	8/17/2021	103	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	8/17/2021	78.3	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	8/17/2021	77.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	8/17/2021	143	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	8/17/2021	55.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	8/23/2021	87.6	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	8/24/2021	129	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	8/24/2021	123	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	8/24/2021	86.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	8/24/2021	93.1	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.863	n/a	8/17/2021	34.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.863	n/a	8/24/2021	22.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.863	n/a	8/25/2021	14.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.863	n/a	8/25/2021	7.43	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.863	n/a	8/25/2021	6.37	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.863	n/a	8/25/2021	11.5	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.863	n/a	8/25/2021	10.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.863	n/a	8/17/2021	10.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.863	n/a	8/17/2021	14.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.863	n/a	8/17/2021	25.1	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.863	n/a	8/17/2021	12.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.863	n/a	8/25/2021	10.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.863	n/a	8/24/2021	25.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.863	n/a	8/17/2021	21.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.863	n/a	8/23/2021	6.37	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limit - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
Chloride (mg/L)	GC-AP-MW-5	5.863	n/a	8/23/2021	11.6	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.863	n/a	8/24/2021	56.6	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.863	n/a	8/24/2021	91.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.863	n/a	8/24/2021	90.8	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.863	n/a	8/24/2021	90.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	8/24/2021	0.277	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	8/25/2021	0.188	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	8/25/2021	0.239	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	8/25/2021	0.167	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	8/17/2021	0.286	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	8/17/2021	0.494	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	8/17/2021	0.212	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	8/17/2021	0.184	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	8/23/2021	0.322	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	8/24/2021	0.161	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	8/24/2021	0.164	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	8/25/2021	7.04	Yes	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	8/17/2021	745	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	8/25/2021	126	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	8/25/2021	118	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	8/25/2021	181	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	8/25/2021	346	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	8/25/2021	153	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	8/17/2021	502	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	8/23/2021	155	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	8/24/2021	210	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	8/24/2021	234	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	8/24/2021	139	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	8/17/2021	1340	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	8/24/2021	423	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	8/25/2021	358	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	8/25/2021	263	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	8/25/2021	359	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	8/25/2021	774	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	8/25/2021	407	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	8/17/2021	490	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	8/17/2021	506	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	8/17/2021	397	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	8/17/2021	808	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	8/25/2021	207	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	8/24/2021	224	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	8/17/2021	297	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	8/23/2021	481	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	179	n/a	8/24/2021	792	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	8/24/2021	930	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	8/24/2021	690	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	8/24/2021	624	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 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)	GC-AP-MW-1	0.1015	n/a	8/17/2021	0.281	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	8/24/2021	1.93	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	8/25/2021	0.601	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	8/25/2021	0.393	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	8/25/2021	0.438	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	8/25/2021	1.33	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	8/25/2021	0.83	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	8/17/2021	1.98	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	8/17/2021	2.18	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	8/17/2021	1.45	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	8/17/2021	0.131	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	8/25/2021	0.288	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	8/24/2021	0.115	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	8/17/2021	0.0518J	No	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	8/23/2021	0.1015ND	No	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	8/23/2021	0.1015ND	No	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	8/23/2021	0.1015ND	No	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	8/23/2021	0.628	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	8/24/2021	1.36	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	8/24/2021	0.216	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	8/24/2021	1.23	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	8/24/2021	1.14	Yes	119	n/a	n/a	93.28	n/a	n/a	0.0001365	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	8/17/2021	103	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	8/24/2021	83.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.8	n/a	8/25/2021	57.6	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	8/25/2021	45.2	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	8/25/2021	74.2	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	8/25/2021	134	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	8/25/2021	74.8	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	8/17/2021	103	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	8/17/2021	78.3	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	8/17/2021	77.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	8/17/2021	143	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	8/25/2021	31	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.8	n/a	8/24/2021	25.9	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	8/17/2021	55.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	42.8	n/a	8/23/2021	7.11	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	42.8	n/a	8/23/2021	2.16	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	42.8	n/a	8/23/2021	9.48	No	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	8/23/2021	87.6	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	8/24/2021	129	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	8/24/2021	123	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	8/24/2021	86.4	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	8/24/2021	93.1	Yes	126	n/a	n/a	0	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.863	n/a	8/17/2021	34.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.863	n/a	8/24/2021	22.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.863	n/a	8/25/2021	14.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.863	n/a	8/25/2021	7.43	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.863	n/a	8/25/2021	6.37	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.863	n/a	8/25/2021	11.5	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limit - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-15	5.863	n/a	8/25/2021	10.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.863	n/a	8/17/2021	10.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.863	n/a	8/17/2021	14.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.863	n/a	8/17/2021	25.1	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.863	n/a	8/17/2021	12.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.863	n/a	8/25/2021	10.4	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.863	n/a	8/24/2021	25.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.863	n/a	8/17/2021	21.3	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.863	n/a	8/23/2021	6.37	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.863	n/a	8/23/2021	5.61	No	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.863	n/a	8/23/2021	4.33	No	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.863	n/a	8/23/2021	11.6	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.863	n/a	8/24/2021	56.6	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.863	n/a	8/24/2021	91.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.863	n/a	8/24/2021	90.8	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.863	n/a	8/24/2021	90.7	Yes	126	0.7583	0.4749	3.968	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	8/17/2021	0.158	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	8/24/2021	0.277	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	8/25/2021	0.135	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	8/25/2021	0.188	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	8/25/2021	0.111	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	8/25/2021	0.239	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	8/25/2021	0.167	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	8/17/2021	0.286	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	8/17/2021	0.494	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	8/17/2021	0.212	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	8/17/2021	0.0974J	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	8/25/2021	0.117	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	8/24/2021	0.0914J	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	8/17/2021	0.184	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	8/23/2021	0.1ND	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	8/23/2021	0.1ND	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	8/23/2021	0.1ND	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	8/23/2021	0.322	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	8/24/2021	0.161	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	8/24/2021	0.1	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	8/24/2021	0.141	No	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	8/24/2021	0.164	Yes	120	n/a	n/a	67.5	n/a	n/a	0.0001336	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.8	3.78	8/17/2021	5.49	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.78	8/24/2021	6.04	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.78	8/25/2021	6.38	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	8/25/2021	7.04	Yes	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-13	6.8	3.78	8/25/2021	6.66	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.78	8/25/2021	6.21	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.78	8/25/2021	6.12	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.78	8/17/2021	6.33	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.78	8/17/2021	6.57	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.78	8/17/2021	6.38	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.78	8/17/2021	5.99	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.78	8/25/2021	6.51	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2

Interwell Prediction Limit - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method	
pH (SU)	GC-AP-MW-25	6.8	3.78	8/24/2021	5.25	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.78	8/17/2021	6.13	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.78	8/23/2021	5.67	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.78	8/23/2021	4.17	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.78	8/23/2021	6.04	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.78	8/23/2021	6.5	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.78	8/24/2021	6.22	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.78	8/24/2021	6.4	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.78	8/24/2021	6.16	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.78	8/24/2021	6.08	No	150	n/a	n/a	0	n/a	n/a	0.0001749	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	8/17/2021	745	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	8/24/2021	71.6	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	8/25/2021	126	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	8/25/2021	118	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	8/25/2021	181	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	8/25/2021	346	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	8/25/2021	153	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	8/17/2021	46.6	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	8/17/2021	32.8	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	8/17/2021	12.2	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	8/17/2021	502	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	8/25/2021	76.1	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	8/24/2021	66.6	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	8/17/2021	12	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	8/23/2021	4	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	8/23/2021	9.18	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	8/23/2021	2.44	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	8/23/2021	155	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	8/24/2021	210	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	8/24/2021	234	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	8/24/2021	71.4	No	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	8/24/2021	139	Yes	126	n/a	n/a	23.81	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	8/17/2021	1340	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	8/24/2021	423	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	8/25/2021	358	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	8/25/2021	263	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	8/25/2021	359	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	8/25/2021	774	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	8/25/2021	407	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	8/17/2021	490	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	8/17/2021	506	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	8/17/2021	397	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	8/17/2021	808	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	8/25/2021	207	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	8/24/2021	224	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	8/17/2021	297	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	179	n/a	8/23/2021	49.3	No	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	179	n/a	8/23/2021	64.7	No	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	179	n/a	8/23/2021	48.7	No	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	8/23/2021	481	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232	NP Inter (normality) 1 of 2

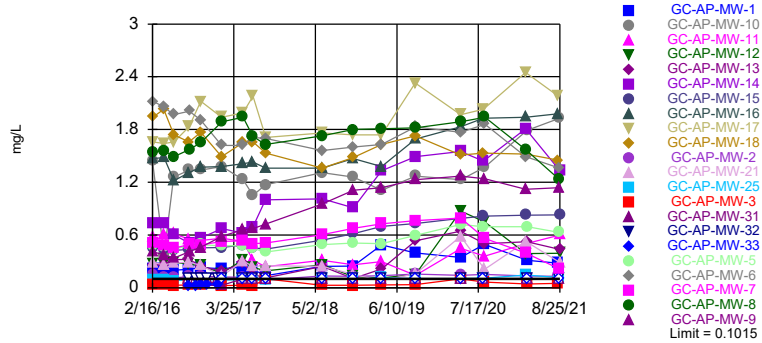
Interwell Prediction Limit - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	TransformAlpha	Method
TDS (mg/L)	GC-AP-MW-6	179	n/a	8/24/2021	792	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232 NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	8/24/2021	930	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232 NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	8/24/2021	690	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232 NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	8/24/2021	624	Yes	126	n/a	n/a	15.87	n/a	n/a	0.0001232 NP Inter (normality) 1 of 2

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit
Interwell Non-parametric

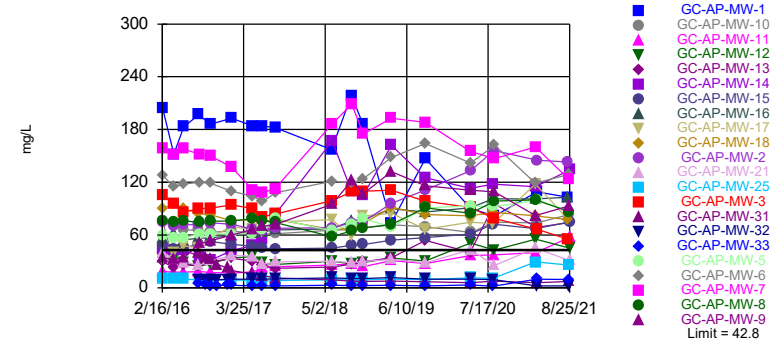


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 119 background values. 93.28% NDs. Annual per-constituent alpha = 0.005987. Individual comparison alpha = 0.0001365 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 11/18/2021 6:04 PM View: PLS
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit
Interwell Non-parametric

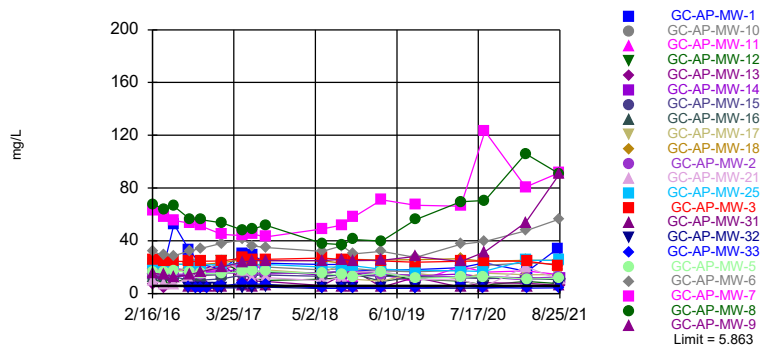


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 126 background values. Annual per-constituent alpha = 0.005406. Individual comparison alpha = 0.0001232 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 11/18/2021 6:04 PM View: PLS
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit
Interwell Parametric

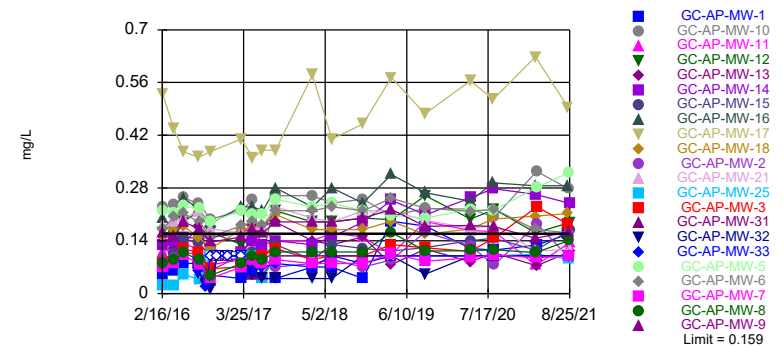


Background Data Summary (based on natural log transformation): Mean=0.7583, Std. Dev.=0.4749, n=126, 3.968% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 11.94, critical = 14.07. Kappa = 2.128 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Chloride Analysis Run 11/18/2021 6:04 PM View: PLS
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18,...

Prediction Limit
Interwell Non-parametric

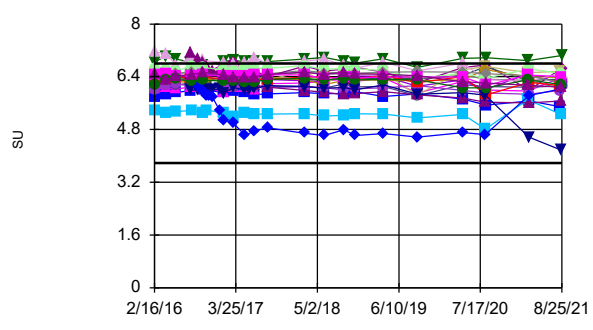


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 120 background values. 67.5% NDs. Annual per-constituent alpha = 0.005863. Individual comparison alpha = 0.0001336 (1 of 2). Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 11/18/2021 6:04 PM View: PLS
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limits: GC-AP-MW-12

Prediction Limit
Interwell Non-parametric



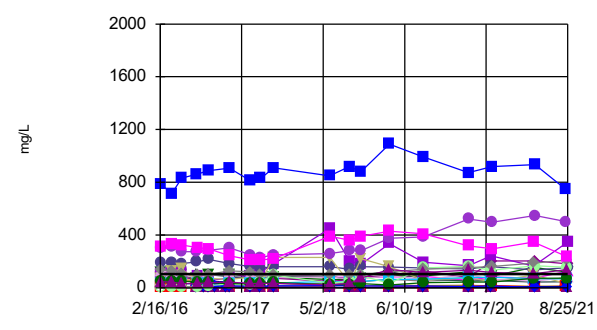
- GC-AP-MW-1
 - GC-AP-MW-10
 - ▲ GC-AP-MW-11
 - ▼ GC-AP-MW-12
 - ◆ GC-AP-MW-13
 - ◇ GC-AP-MW-14
 - GC-AP-MW-15
 - ▲ GC-AP-MW-16
 - ▼ GC-AP-MW-17
 - ◆ GC-AP-MW-18
 - ◇ GC-AP-MW-2
 - GC-AP-MW-21
 - ▲ GC-AP-MW-25
 - ▼ GC-AP-MW-3
 - ◆ GC-AP-MW-31
 - ◇ GC-AP-MW-32
 - GC-AP-MW-33
 - ▲ GC-AP-MW-5
 - ▼ GC-AP-MW-6
 - ◆ GC-AP-MW-7
 - ◇ GC-AP-MW-8
 - GC-AP-MW-9
- Limit = 6.8
Limit = 3.78

Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 150 background values. Annual per-constituent alpha = 0.007683. Individual comparison alpha = 0.0001749 (1 of 2). Comparing 22 points to limit.

Constituent: pH Analysis Run 11/18/2021 6:04 PM View: PLS
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-2,...

Prediction Limit
Interwell Non-parametric



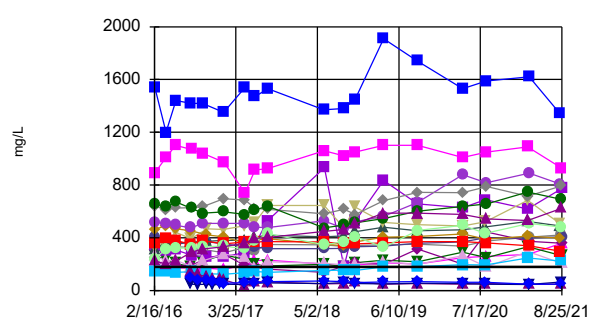
- GC-AP-MW-1
 - GC-AP-MW-10
 - ▲ GC-AP-MW-11
 - ▼ GC-AP-MW-12
 - ◆ GC-AP-MW-13
 - ◇ GC-AP-MW-14
 - GC-AP-MW-15
 - ▲ GC-AP-MW-16
 - ▼ GC-AP-MW-17
 - ◆ GC-AP-MW-18
 - ◇ GC-AP-MW-2
 - GC-AP-MW-21
 - ▲ GC-AP-MW-25
 - ▼ GC-AP-MW-3
 - ◆ GC-AP-MW-31
 - ◇ GC-AP-MW-32
 - GC-AP-MW-33
 - ▲ GC-AP-MW-5
 - ▼ GC-AP-MW-6
 - ◆ GC-AP-MW-7
 - ◇ GC-AP-MW-8
 - GC-AP-MW-9
- Limit = 103

Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 126 background values. 23.81% NDs. Annual per-constituent alpha = 0.005406. Individual comparison alpha = 0.0001232 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 11/18/2021 6:04 PM View: PLS
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit
Interwell Non-parametric



- GC-AP-MW-1
 - GC-AP-MW-10
 - ▲ GC-AP-MW-11
 - ▼ GC-AP-MW-12
 - ◆ GC-AP-MW-13
 - ◇ GC-AP-MW-14
 - GC-AP-MW-15
 - ▲ GC-AP-MW-16
 - ▼ GC-AP-MW-17
 - ◆ GC-AP-MW-18
 - ◇ GC-AP-MW-2
 - GC-AP-MW-21
 - ▲ GC-AP-MW-25
 - ▼ GC-AP-MW-3
 - ◆ GC-AP-MW-31
 - ◇ GC-AP-MW-32
 - GC-AP-MW-33
 - ▲ GC-AP-MW-5
 - ▼ GC-AP-MW-6
 - ◆ GC-AP-MW-7
 - ◇ GC-AP-MW-8
 - GC-AP-MW-9
- Limit = 179

Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 126 background values. 15.87% NDs. Annual per-constituent alpha = 0.005406. Individual comparison alpha = 0.0001232 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 11/18/2021 6:04 PM View: PLS
Plant Greene County Client: Southern Company Data: Greene County AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
8/23/2021									
8/24/2021	1.23	1.93	1.14					0.216	1.36
8/25/2021				0.288	0.393	0.438	1.33		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
8/23/2021	0.628								
8/24/2021								<0.1015	<0.1015
8/25/2021		0.83							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	0.581	0.219	0.0922 (J)						
4/12/2016			0.0935 (J)						
4/13/2016	0.61	0.211							
5/31/2016	0.615								
6/1/2016		0.2	0.0826 (J)						
8/15/2016		0.211							
8/16/2016	0.554			<0.1015	0.0268 (J)	<0.1015	<0.1015	<0.1015	
8/17/2016			0.092 (J)						<0.1015
9/19/2016				<0.1015	0.0225 (J)		<0.1015		
9/20/2016						<0.1015		<0.1015	<0.1015
10/11/2016		0.23	0.0976 (J)	<0.1015	0.0304 (J)	<0.1015	<0.1015	<0.1015	
10/12/2016	0.537								<0.1015
11/14/2016				<0.1015	0.0355 (J)		<0.1015		
11/15/2016						0.0229 (J)		<0.1015	<0.1015
1/3/2017				<0.1015	0.0304 (J)		<0.1015		
1/4/2017						<0.1015		<0.1015	<0.1015
1/23/2017								<0.1015	0.0217 (J)
1/24/2017		0.218	0.0877 (J)	0.0282 (J)			<0.1015		
1/25/2017	0.562				<0.1015				
1/26/2017						<0.1015			
5/9/2017	0.528	0.235	0.0953 (J)			<0.1015		<0.1015	<0.1015
5/10/2017				<0.1015	<0.1015		<0.1015		
6/27/2017		0.206		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/28/2017	0.313		0.0835 (J)						
8/29/2017	0.241		0.0914 (J)						<0.1015
8/30/2017		0.138		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	
6/4/2018		0.242							
6/5/2018	0.311			<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/6/2018			0.102						
11/5/2018	0.262						<0.1015		
11/6/2018		0.247	0.0995 (J)	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015
11/7/2018									
3/26/2019						<0.1015		<0.1015	<0.1015
3/27/2019	0.298	0.488	0.113	<0.1015	<0.1015		<0.1015		
9/9/2019									
9/10/2019	0.141	0.398	0.105						
9/11/2019				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
4/20/2020									
4/21/2020		0.347				<0.1015		<0.1015	<0.1015
4/22/2020	0.447		0.104	<0.1015	<0.1015		<0.1015		
8/11/2020			0.11	<0.1015					
8/12/2020					<0.1015		<0.1015		
8/17/2020		0.496							
8/18/2020	0.358					<0.1015		<0.1015	<0.1015
8/19/2020									
3/9/2021									
3/10/2021	0.502		0.146						
3/15/2021				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
3/16/2021		0.313							
8/17/2021		0.281							
8/18/2021						<0.1015		<0.1015	<0.1015

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	<0.1015	<0.1015
9/19/2016		
9/20/2016	<0.1015	<0.1015
10/11/2016		
10/12/2016	<0.1015	0.02 (J)
11/14/2016		
11/15/2016	<0.1015	<0.1015
1/3/2017		
1/4/2017	<0.1015	<0.1015
1/23/2017		0.0287 (J)
1/24/2017	0.0331 (J)	
1/25/2017		
1/26/2017		
5/9/2017	<0.1015	<0.1015
5/10/2017		
6/27/2017	<0.1015	<0.1015
6/28/2017		
8/29/2017		<0.1015
8/30/2017	<0.1015	
6/4/2018		
6/5/2018	<0.1015	<0.1015
6/6/2018		
11/5/2018		
11/6/2018	<0.1015	<0.1015
11/7/2018		
3/26/2019	<0.1015	<0.1015
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.1015	<0.1015
4/20/2020		
4/21/2020	<0.1015	<0.1015
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1015	<0.1015
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.1015	<0.1015
3/16/2021		
8/17/2021		
8/18/2021	<0.1015	<0.1015

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

8/23/2021
8/24/2021
8/25/2021

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-24 (bg)	GC-AP-MW-11
2/16/2016	34.6	75.9	76.3	40.4	33.9	44.4	29.8		
2/17/2016								6.54	18.6
4/12/2016						43.2	23.3	6.15	
4/13/2016	32.2	74.1	30.5	32.2	32.5				17.8
5/31/2016	28.8		65.9			43	25.9		17.7
6/1/2016		76.4		29.3	33.9			5.7	
8/15/2016									
8/16/2016	24		65.6	25.4			25.5	6.77	18.4
8/17/2016		74.2			50.3	35.9			
9/19/2016									
9/20/2016									
10/11/2016								8.84	
10/12/2016	27.8	75.7	63.4	30.7	53.3	31.1	29.5		17.3
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								12.8	
1/25/2017	33.7	76.1	64.2	36.8	59.9	42.7	33.6		16.6
1/26/2017									
5/9/2017	35.5			36.1		48.1	30.4		18
5/10/2017		78.6	62.6		66.5			12.4	
6/27/2017									
6/28/2017	28	76.4	60.8	26.9	69.8	55	26	17.9	22.6
8/29/2017	26.4	74.1	61.4	29.4	72	83.6	22.3	19	23.9
8/30/2017									
6/4/2018									
6/5/2018		58	65.5		95.1			30	25.7
6/6/2018	30.1			30.2		167	23.7		
9/10/2018				28.8					27.2
9/11/2018	27.4	64.9	66.1		122		26.8	28.7	
9/12/2018						109			
11/5/2018	28.8			29.7			29.4		24.1
11/6/2018									
11/7/2018		68.1	68.5		107	105		30.7	
3/26/2019	33.7	72		32.4	132		34.1	32.3	
3/27/2019			71.8			162			31
9/9/2019									
9/10/2019	30.5	91	69.3	28.4	116	125		32.8	27.7
9/11/2019							53.9		
4/20/2020							40.3		
4/21/2020	51	84.8		43.1	111	113			
4/22/2020			62.9					31.4	36.7
8/11/2020						118			
8/12/2020								35.8	
8/17/2020									
8/18/2020	42.9		74.4	25.5	109		95.3		37.6
8/19/2020		98.6							
3/9/2021		100			82.1	115			
3/10/2021	55.1			44.9				42.8	39.9
3/15/2021			73.8				68.9		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-24 (bg)	GC-AP-MW-11
3/16/2021									
8/17/2021									
8/18/2021									
8/23/2021									
8/24/2021		86.4	83.4		93.1			36.5	
8/25/2021	45.2			31		134	74.2		57.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-18	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	10.2	106	89.6						
4/12/2016	10	95.2	96.2						
4/13/2016									
5/31/2016									
6/1/2016	9.87	86.1	90.2						
8/15/2016		89.7	84.4						
8/16/2016				39.5	1.24	5.54	9.33	2.02	
8/17/2016	8.88								1.1
9/19/2016				34.5		3.01	9.26		
9/20/2016					1.11			1.22	0.771
10/11/2016	9.22	90.6		32.4	1.22	2.74	9.31	1.48	
10/12/2016			82.9						0.711
11/14/2016				26.5		2.47	9.17		
11/15/2016					1.34			1.36	0.641
1/3/2017				22.6		2.94	9.66		
1/4/2017					2.39			1.11	0.797
1/23/2017					1.83				0.655
1/24/2017	8.72	94.2	76.4	19.5			9.67		
1/25/2017						2.91			
1/26/2017								1.03	
5/9/2017	8.56	90.3			0.823			0.289 (J)	0.538
5/10/2017			77.4	15.7		2.27	9.81		
6/27/2017			75.4	13.8	0.956	2.2	9.88	0.292 (J)	0.413 (J)
6/28/2017	7.16	80.7							
8/29/2017	8.32								0.504
8/30/2017		84	78	11.1	1.04	2.26	10.3	0.336 (J)	
6/4/2018		98.8							
6/5/2018			66.3	9.12	1.18	2.97	11.4	0.2 (J)	0.339 (J)
6/6/2018	9.05								
9/10/2018									
9/11/2018				7.5	1.5	2.6	10.5	0.171 (J)	0.776
9/12/2018	8.98	109	67.8						
11/5/2018							10.5		
11/6/2018	9.21	110	72.7	7.39	1.64	2.42		0.193 (J)	0.746
11/7/2018									
3/26/2019			91.5		1.33			0.223 (J)	0.526
3/27/2019	9.77	111		7.65		2.75	11.6		
9/9/2019		98.5	83.2						
9/10/2019	9.28								
9/11/2019				6.96	0.925	2.17	9.95	0.158 (J)	0.638
4/20/2020		91.2							
4/21/2020			81.8		0.864			0.287 (J)	1.15
4/22/2020	11.3			5.92		3.15	9.87		
8/11/2020	10.7			7.46					
8/12/2020			85.9			1.78	9.48		
8/17/2020		78.9							
8/18/2020					0.926			0.231 (J)	0.884
8/19/2020									
3/9/2021			82						
3/10/2021	29.3								
3/15/2021				5.9	0.646	9.77	2.02	0.239 (J)	0.745

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	7.74	5.88
9/19/2016		
9/20/2016	2.43	5.95
10/11/2016		
10/12/2016	2.46	6.1
11/14/2016		
11/15/2016	2.28	6.28
1/3/2017		
1/4/2017	2.7	4.97
1/23/2017		5.17
1/24/2017	4.19	
1/25/2017		
1/26/2017		
5/9/2017	3.28	15.7
5/10/2017		
6/27/2017	3.76	14.2
6/28/2017		
8/29/2017		11.1
8/30/2017	2.31	
6/4/2018		
6/5/2018	2.76	3.93
6/6/2018		
9/10/2018		
9/11/2018	2.04	3.76
9/12/2018		
11/5/2018		
11/6/2018	2	4.81
11/7/2018		
3/26/2019	2.13	3.18
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.98	3.98
4/20/2020		
4/21/2020	2.41	3.83
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	2.23	4.58
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	1.73	4.67

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg) GC-AP-MW-26 (bg)

3/16/2021		
8/17/2021		
8/18/2021	1.94	4.84
8/23/2021		
8/24/2021		
8/25/2021		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-24 (bg)	GC-AP-MW-11
2/16/2016	10.8	67.9	18.4	9.95	15.6	16.4	6.52		
2/17/2016								3.3	16.6
4/12/2016						15.9	4.47	3.25	
4/13/2016	8.2	64.1	19	7.33	14.3				17
5/31/2016	7.74		19.2			13.6	10.8		19
6/1/2016		66.3		6.97	12.6			3.55	
8/15/2016									
8/16/2016	12.5		17.7	12			16.6	3.45	17
8/17/2016		56.7			14.4	12.8			
9/19/2016									
9/20/2016									
10/11/2016								3.78	
10/12/2016	15.7	56.1	16.8	15.4	16.4	16.3	18.5		16.2
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								4.61	
1/25/2017	24.4	53.6	18.6	24.7	20	16.4	22		18
1/26/2017									
5/9/2017	15			17		19	10		23
5/10/2017		48	22		24			5.9	
6/27/2017									
6/28/2017	12	49	20	11	25	17	9.4	5.7	24
8/29/2017	10	52	20	12	25	17	9.3	6.8	15
8/30/2017									
6/4/2018									
6/5/2018		38	18		25			7.9	16
6/6/2018	11			9.7		14	6.1		
9/10/2018				12					13
9/11/2018	12	37	19		26		14	6.1	
9/12/2018						14			
11/5/2018	17			16			18		13
11/6/2018									
11/7/2018		41	19		25	15		5.2	
3/26/2019	14.5	39.7		17.2	25.3		4.7	6.92	
3/27/2019			17.1			14.9			14.2
9/9/2019									
9/10/2019	10.9	56.1	16.5	11	28	13.5		4.39	8.88
9/11/2019							12.3		
4/20/2020							4.7		
4/21/2020	9.49	69.5		10.1	24.2	14.8			
4/22/2020			17.6					2.75	20.5
8/11/2020						12.7			
8/12/2020								4.14	
8/17/2020									
8/18/2020	6.46		21.3	5.54	31.4		8.24		16.2
8/19/2020		70.5							
3/9/2021		106			53.9	10.4			
3/10/2021	9.3			20.4				3.51	17.1
3/15/2021			23.2				7.68		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-24 (bg)	GC-AP-MW-11
3/16/2021									
8/17/2021									
8/18/2021									
8/23/2021									
8/24/2021		90.8	22.4		90.7			3.42	
8/25/2021	7.43			10.4		11.5	6.37		14.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-18	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	22.9	25.2	22.3						
4/12/2016	22.2	24.6	22.1						
4/13/2016									
5/31/2016									
6/1/2016	22.3	24.5	22						
8/15/2016		24.2	22.4						
8/16/2016				5.32	2.54	4.88	4.24	2.21	
8/17/2016	22.1								1.78
9/19/2016				5.29		4.45	4.13		
9/20/2016					2.51			2.12	1.61
10/11/2016	21.8	24.4		5.26	2.34	4.36	4.07	2.24	
10/12/2016			22.1						1.51
11/14/2016				5.28		4.42	4.08		
11/15/2016					2.1			6.65	1.5
1/3/2017				5.18		5.18	4.06		
1/4/2017					2.44			2.15	1.53
1/23/2017					2.37				1.62
1/24/2017	21.8	24.6	23.2	5.41			4.4		
1/25/2017						5.66			
1/26/2017								2.31	
5/9/2017	23	27			2.8			2.3	2.2
5/10/2017			26	5.8		8	4.4		
6/27/2017			25	5.4	2.1	7.2	4	2.1	1.9 (J)
6/28/2017	22	26							
8/29/2017	22								2
8/30/2017		26	25	6	3	6.9	4.8	2.8	
6/4/2018		27							
6/5/2018			25	5.2	2.3	4.2	3.8	1.8 (J)	1.9 (J)
6/6/2018	20								
9/10/2018									
9/11/2018				5.5	1.5 (J)	4.2	4.1	<2	<2
9/12/2018	20	26	23						
11/5/2018							3.9		
11/6/2018	21	26	26	5.1	1.4 (J)	4.5		<2	1.9 (J)
11/7/2018									
3/26/2019			25.4		2.42			1.07	2.18
3/27/2019	18.4	24.8		5.26		4.33	3.9		
9/9/2019		23.8	25.6						
9/10/2019	17.7								
9/11/2019				5.31	3.72	4.16	4.21	1.19	1.7
4/20/2020		24.5							
4/21/2020			26.3		3.89			1.09	1.9
4/22/2020	17.1			5.37		5.66	4		
8/11/2020	16.7			5.45					
8/12/2020			24.5			4.46	4.17		
8/17/2020		24.6							
8/18/2020					3.8			1.05	1.63
8/19/2020									
3/9/2021			25.2						
3/10/2021	25.3								
3/15/2021				5.47	4.38	4.18	5.57	1.25	2.46

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	1.77	2.44
9/19/2016		
9/20/2016	1.56	2.54
10/11/2016		
10/12/2016	1.54	2.67
11/14/2016		
11/15/2016	1.53	2.94
1/3/2017		
1/4/2017	1.58	2.92
1/23/2017		3.21
1/24/2017	1.71	
1/25/2017		
1/26/2017		
5/9/2017	2.1	2.5
5/10/2017		
6/27/2017	2	3
6/28/2017		
8/29/2017		3.6
8/30/2017	1.5 (J)	
6/4/2018		
6/5/2018	1.2 (J)	2.2
6/6/2018		
9/10/2018		
9/11/2018	<2	1.5 (J)
9/12/2018		
11/5/2018		
11/6/2018	<2	2.5
11/7/2018		
3/26/2019	1.2	2
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.26	2.34
4/20/2020		
4/21/2020	1.32	2.04
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.38	2.16
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	1.27	2.83

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg) GC-AP-MW-26 (bg)

3/16/2021		
8/17/2021		
8/18/2021	1.42	2.97
8/23/2021		
8/24/2021		
8/25/2021		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-14	GC-AP-MW-6	GC-AP-MW-11
8/18/2021									
8/23/2021									
8/24/2021	0.164		0.141			0.277		0.161	
8/25/2021		0.117		0.188	0.111		0.239		0.135

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-3	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-24 (bg)	GC-AP-MW-16	GC-AP-MW-23 (bg)	GC-AP-MW-17	GC-AP-MW-2
2/16/2016									
2/17/2016	0.22 (J)	0.08 (J)	0.05 (J)	0.02 (J)	0.02 (J)	0.2 (J)	0.08 (J)	0.53	0.09 (J)
4/12/2016	0.214 (J)	0.083 (J)		0.021 (J)	0.026 (J)		0.077 (J)		
4/13/2016			0.061 (J)			0.173 (J)		0.437	0.092 (J)
5/31/2016	0.232 (J)								
6/1/2016		0.118 (J)	0.079 (J)	0.051 (J)	0.057 (J)	0.253 (J)	0.101 (J)	0.376	0.108 (J)
8/15/2016		0.109 (J)	0.081 (J)			0.224 (J)		0.362	0.105 (J)
8/16/2016					0.046 (J)		0.093 (J)		
8/17/2016	0.225 (J)			0.037 (J)					
9/19/2016									
9/20/2016									
10/11/2016	0.19 (J)	0.066 (J)	0.049 (J)	<0.1	<0.1		0.059 (J)		0.062 (J)
10/12/2016						0.187 (J)		0.377	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	0.22	0.07 (J)	0.04 (J)	<0.1	<0.1	0.23	0.07 (J)	0.41	<0.1
3/15/2017									
5/9/2017	0.21	0.09 (J)	0.05 (J)	<0.1			0.08 (J)		0.07 (J)
5/10/2017					<0.1	0.23		0.36	
6/27/2017			0.04 (J)			0.22	0.08 (J)	0.38	
6/28/2017	0.21	0.1		0.04 (J)	<0.1				0.09 (J)
8/29/2017				<0.1	0.04 (J)		0.1		
8/30/2017	0.25	0.12	0.04 (J)			0.28		0.38	0.07 (J)
2/27/2018	0.23	0.09 (J)	0.07 (J)		<0.1		0.08 (J)		0.08 (J)
2/28/2018				<0.1		0.23		0.58	
6/4/2018		0.1	0.07 (J)						0.09 (J)
6/5/2018	0.24				0.04 (J)	0.28	0.09 (J)	0.41	
6/6/2018				<0.1					
11/5/2018									
11/6/2018	0.22	0.1	0.04 (J)	<0.1		0.24		0.45	0.07 (J)
11/7/2018					<0.1		0.08 (J)		
3/26/2019					<0.1	0.316	0.123	0.573	
3/27/2019	0.208	0.13	0.192	<0.1					0.089 (J)
9/9/2019		0.121						0.477	0.163
9/10/2019			0.179	<0.1	0.0545 (J)	0.267	0.0914 (J)		
9/11/2019	0.2								
4/20/2020		0.112				0.245			
4/21/2020	0.224		0.12				0.095 (J)	0.565	0.126
4/22/2020				<0.1	<0.1				
8/11/2020				<0.1		0.294		0.515	
8/12/2020	0.221				<0.1		0.0867 (J)		
8/17/2020		0.148	0.115						0.0753 (J)
8/18/2020									
8/19/2020									
3/9/2021						0.286		0.628	
3/10/2021				0.104	<0.1		0.085 (J)		
3/15/2021									
3/16/2021	0.282	0.23	0.129						0.185
8/17/2021		0.184	0.158			0.286		0.494	0.0974 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-7	GC-AP-MW-18	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	0.09 (J)	0.07 (J)	0.15 (J)						
4/12/2016	0.107 (J)		0.168 (J)						
4/13/2016		0.081 (J)							
5/31/2016	0.145 (J)	0.103 (J)							
6/1/2016			0.178 (J)						
8/15/2016			0.149 (J)						
8/16/2016	0.135 (J)			0.05 (J)	0.087 (J)	0.054 (J)	0.061 (J)	0.036 (J)	
8/17/2016		0.078 (J)							0.159 (J)
9/19/2016					0.045 (J)	0.023 (J)	0.018 (J)		
9/20/2016				0.015 (J)				<0.1	0.126 (J)
10/11/2016	0.096 (J)			<0.1	0.034 (J)	0.011 (J)	<0.1	<0.1	
10/12/2016		0.041 (J)	0.12 (J)						0.1 (J)
11/14/2016					<0.1	<0.1	<0.1		
11/15/2016				<0.1				<0.1	0.016 (J)
1/3/2017					<0.1	<0.1	<0.1		
1/4/2017				<0.1				<0.1	<0.1
3/13/2017				<0.1					0.31 (o)
3/14/2017	0.09 (J)	0.07 (J)	0.17		<0.1	<0.1	<0.1	<0.1	
3/15/2017									
5/9/2017				<0.1				<0.1	0.25 (o)
5/10/2017	0.11	0.09 (J)	0.17		0.05 (J)	0.05 (J)	0.06 (J)		
6/27/2017	0.1		0.18	<0.1	0.05 (J)	0.04 (J)	0.07 (J)	<0.1	0.22 (o)
6/28/2017		0.08 (J)							
8/29/2017		0.09 (J)							0.22 (o)
8/30/2017	0.13		0.21	<0.1	<0.1	0.04 (J)	0.08 (J)	<0.1	
2/27/2018		0.08 (J)		<0.1	<0.1	0.04 (J)	0.07 (J)	<0.1	0.08 (J)
2/28/2018	0.09 (J)		0.17						
6/4/2018									
6/5/2018	0.13	0.08 (J)	0.17	<0.1	<0.1	0.04 (J)	0.1	<0.1	0.07 (J)
6/6/2018									
11/5/2018						<0.1			
11/6/2018	0.12		0.17	<0.1	<0.1		0.08 (J)	<0.1	0.07 (J)
11/7/2018		0.08 (J)							
3/26/2019	0.113	0.106	0.192	<0.1				<0.1	<0.1
3/27/2019					<0.1	<0.1	<0.1		
9/9/2019			0.157						
9/10/2019	0.122	0.086 (J)							
9/11/2019				<0.1	<0.1	0.0518 (J)	<0.1	<0.1	0.0716 (J)
4/20/2020	0.14								
4/21/2020		0.0951 (J)	0.171	<0.1				<0.1	<0.1
4/22/2020					<0.1	<0.1	<0.1		
8/11/2020					<0.1				
8/12/2020	0.147		0.198			<0.1	<0.1		
8/17/2020									
8/18/2020				<0.1				<0.1	<0.1
8/19/2020		0.103							
3/9/2021		0.0949 (J)	0.205						
3/10/2021	0.115								
3/15/2021				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/16/2021									
8/17/2021			0.212						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	0.055 (J)	0.039 (J)
9/19/2016		
9/20/2016	0.021 (o)	0.01 (o)
10/11/2016		
10/12/2016	<0.1	<0.1
11/14/2016		
11/15/2016	<0.1	<0.1
1/3/2017		
1/4/2017	<0.1	<0.1
3/13/2017		
3/14/2017	<0.1	<0.1
3/15/2017		
5/9/2017	<0.1	<0.1
5/10/2017		
6/27/2017	<0.1	<0.1
6/28/2017		
8/29/2017		<0.1
8/30/2017	<0.1	
2/27/2018	<0.1	<0.1
2/28/2018		
6/4/2018		
6/5/2018	<0.1	<0.1
6/6/2018		
11/5/2018		
11/6/2018	<0.1	<0.1
11/7/2018		
3/26/2019	<0.1	<0.1
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	0.0649 (J)	<0.1
4/20/2020		
4/21/2020	<0.1	<0.1
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1	<0.1
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.1	<0.1
3/16/2021		
8/17/2021		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg) GC-AP-MW-27 (bg)

8/18/2021	<0.1	<0.1
8/23/2021		
8/24/2021		
8/25/2021		

Prediction Limit

Constituent: pH (SU) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-11	GC-AP-MW-7
2/16/2016	6.29	6.84	6.16	7.15	6.4	6.21	6.5		
2/17/2016								6.04	6.45
4/12/2016					6.41	6.37			
4/13/2016	6.21	7.03	6.29	7.1			6.32	6.07	6.49
5/31/2016	6.45	6.94			6.22	6.42		6.03	6.43
6/1/2016			6.33	6.76			6.43		
8/15/2016									
8/16/2016	6.58	6.84		6.99	6.41			6.09	
8/17/2016			6.27			6.42	6.46		6.43
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	6.6	6.75	6.3	6.89	6.42	6.38	6.53	6.06	6.46
10/31/2016									
11/1/2016					6.55	6.33			
11/2/2016									
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									
1/25/2017	6.47	6.87	6.27	6.84	6.76	6.37	6.45	5.94	6.43
1/26/2017									
3/13/2017									
3/14/2017						6.3		6.08	6.41
3/15/2017	6.54	6.9	6.27	6.78	6.82		6.39		
5/9/2017		6.85		6.83	6.7	6.43		6.07	
5/10/2017	6.53		6.25				6.39		6.41
5/31/2017									
6/27/2017									
6/28/2017	6.49	6.85	6.25	6.98	6.58	6.4	6.4	6.02	6.46
8/29/2017	6.49	6.86	6.32	6.8	6.4	6.32	6.47	6.19	6.46
8/30/2017									
2/27/2018	6.59		6.36			6.28	6.54	6.21	6.45
2/28/2018		6.94		6.87	6.72				
6/4/2018									
6/5/2018	6.52		6.3				6.47	6.27	6.36
6/6/2018		6.99		6.94	6.57	6.25			
9/10/2018				6.74				6.33	
9/11/2018	6.53	6.87	6.36		6.64		6.53		6.38
9/12/2018						6.42			
11/5/2018		6.81		6.66	6.69			6.26	
11/6/2018									
11/7/2018	6.51		6.31			6.42	6.49		6.37
3/26/2019		6.95	6.32	6.84	6.54		6.47		6.39
3/27/2019	6.53					6.41		6.37	
9/9/2019									
9/10/2019	6.33	6.69	6.31	6.58		6.11	6.43	5.91	6.39
9/11/2019					6.22				

Prediction Limit

Constituent: pH (SU) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-11	GC-AP-MW-7
4/20/2020					6.68				
4/21/2020		6.96	6.06	6.81		6.31	6.25		6.39
4/22/2020	6.44							6.26	
8/11/2020						6.02			
8/12/2020									
8/17/2020									
8/18/2020	6.33	6.98		6.31	6.76		6.21	6	
8/19/2020			6.06						6.14
3/9/2021			6.31			6.48	6.14		6.45
3/10/2021		6.89		6.26				5.97	
3/15/2021	6.29				6				
3/16/2021									
8/17/2021									
8/18/2021									
8/23/2021									
8/24/2021	6.04		6.16				6.08		6.4
8/25/2021		7.04		6.51	6.66	6.21		6.38	

Prediction Limit

Constituent: pH (SU) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-6	GC-AP-MW-17	GC-AP-MW-5	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25
2/16/2016									
2/17/2016	6.02	6.46	6.32	6.63	6.23	6.01	6.8	5.39	5.36
4/12/2016	6.17	6.45		6.59	6.3		6.54	5.29	5.31
4/13/2016			6.44			6.17			
5/31/2016	6.15	6.51		6.57					
6/1/2016			6.24		6.24	6.18	6.49	5.39	5.35
8/15/2016			6.34		6.25	6.12			
8/16/2016	6.21						6.57	5.51	
8/17/2016		6.54		6.72					5.38
9/19/2016									
9/20/2016									
10/11/2016	6.14	6.53		6.69		6.09	6.54	5.44	5.31
10/12/2016			6.42		6.26				
10/31/2016									
11/1/2016	6.15								
11/2/2016			6.48		6.3		6.54	5.49	5.39
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	6.11	6.44	6.53	6.61	6.3	6.04	6.42	5.44	5.29
1/25/2017									
1/26/2017									
3/13/2017									
3/14/2017	6.09	6.4	6.43	6.55	6.31	6.11	6.59	5.48	5.19
3/15/2017									
5/9/2017				6.65		6.1	6.42		5.29
5/10/2017	6.11	6.4	6.33		6.34			5.43	
5/31/2017									
6/27/2017	6.09		6.38		6.32		6.44		
6/28/2017		6.46		6.66		6.09		5.49	5.27
8/29/2017		6.47					6.43	5.46	5.27
8/30/2017	6.1		6.31	6.66	6.38	6.07			
2/27/2018		6.53		6.73		6.09	6.49	5.48	
2/28/2018	6.11		6.57		6.31				5.28
6/4/2018						6.07			
6/5/2018	6.05	6.49	6.21	6.63	6.16		6.43	5.31	
6/6/2018									5.21
9/10/2018						6			
9/11/2018	6.18	6.48		6.65			6.35	5.36	
9/12/2018			6.43		6.29				5.23
11/5/2018									
11/6/2018	6.09		6.47	6.65	6.31	6.04			5.28
11/7/2018		6.48					6.37	5.34	
3/26/2019	6.1	6.54	6.52		6.3		6.46	5.32	
3/27/2019				6.59		6.06			5.27
9/9/2019			5.84		6.28	6.13			
9/10/2019	5.82	6.55					5.85	4.9	5.15
9/11/2019				6.36					

Prediction Limit

Constituent: pH (SU) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-1	GC-AP-MW-3	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	6.18	5.8	6.29						
4/12/2016			6.33						
4/13/2016	6.28	5.85							
5/31/2016									
6/1/2016	6.36	5.92	6.4						
8/15/2016	6.37	5.99	6.36						
8/16/2016				6.34	6.21	7.13	5.39	6	
8/17/2016									5.85
9/19/2016				6.11		6.94		6	
9/20/2016					6.05		5.37		5.82
10/11/2016		6.02	6.38	5.99	6.2	6.82	5.39	6.02	
10/12/2016	6.32								5.76
10/31/2016					6.61		5.36		
11/1/2016				5.84		6.71		5.97	
11/2/2016	6.33								
11/14/2016				5.83		6.57		5.98	
11/15/2016					6.64		5.33		5.79
11/28/2016				5.79		6.57		6	
11/29/2016					6.39		5.33		5.73
1/3/2017				5.39		6.56		6.03	
1/4/2017					6.06		5.49		5.69
1/23/2017							5.48		5.45
1/24/2017	6.29	5.92	6.34			6.41		5.9	
1/25/2017				5.09					
1/26/2017					6.02				
3/13/2017					5.68				4.8
3/14/2017	6.27	5.96	6.42	4.99		6.37	5.17	6.07	
3/15/2017									
5/9/2017		5.93	6.35		5.05		5.11		4.82
5/10/2017	6.3			4.63		6.41		6	
5/31/2017								6.02	
6/27/2017	6.28	5.86		4.76	4.9	6.14	5.29	6.05	5.27
6/28/2017			6.32						
8/29/2017									5.28
8/30/2017	6.34	5.88	6.32	4.85	4.73	6.08	5.09	6.13	
2/27/2018		5.92	6.39	4.69	4.87	5.99	5.25	6.1	5.11
2/28/2018	6.33								
6/4/2018		5.89	6.4						
6/5/2018	6.29			4.62	4.89	5.93	5.12	6.05	5.24
6/6/2018									
9/10/2018		5.89							
9/11/2018				4.79	4.88	5.86	5.19	6.07	5.28
9/12/2018	6.36		6.35						
11/5/2018								6.01	
11/6/2018	6.37	5.95	6.34	4.62	4.86	5.89	5.12		5.54
11/7/2018									
3/26/2019	6.34				4.97		5.16		5.4
3/27/2019		5.8	6.44	4.68		5.95		6.15	
9/9/2019			6.22						
9/10/2019	6.35	5.88							
9/11/2019				4.57	3.96	5.85	4.11	5.87	5.53

Prediction Limit

Constituent: pH (SU) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	6.15	5.47
9/19/2016		
9/20/2016	4.99	5.22
10/11/2016		
10/12/2016	4.88	5.1
10/31/2016	4.87	
11/1/2016		
11/2/2016		
11/14/2016		
11/15/2016	4.81	5.07
11/28/2016		
11/29/2016	4.84	5.1
1/3/2017		
1/4/2017	4.88	5.3
1/23/2017		5.12
1/24/2017	5.4	
1/25/2017		
1/26/2017		
3/13/2017		
3/14/2017	5.13	4.74
3/15/2017		
5/9/2017	4.96	4.83
5/10/2017		
5/31/2017		
6/27/2017	5.34	4.87
6/28/2017		
8/29/2017		4.71
8/30/2017	4.69	
2/27/2018	4.91	4.96
2/28/2018		
6/4/2018		
6/5/2018	4.87	5
6/6/2018		
9/10/2018		
9/11/2018	4.65	4.94
9/12/2018		
11/5/2018		
11/6/2018	4.67	4.9
11/7/2018		
3/26/2019	4.92	4.96
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	4.33	4.85

Prediction Limit

Constituent: pH (SU) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)
4/20/2020		
4/21/2020	4.07	4.29
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	4.59	4.75
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	4.45	4.73
3/16/2021		
8/17/2021		
8/18/2021	3.78	4.52
8/23/2021		
8/24/2021		
8/25/2021		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-24 (bg)	GC-AP-MW-11
2/16/2016	119	49.4	9.03	125	45.2	108	113		
2/17/2016								10.4	40.2
4/12/2016						114	86.7	11.3	
4/13/2016	122	51.7	10.7	119	43.9				33.1
5/31/2016	94.3		10.2			114	83.1		28.1
6/1/2016		51.2		99.2	32			10.4	
8/15/2016									
8/16/2016	67.1		9.1	71.9			59.3	12.2	38.5
8/17/2016		42.9			31.9	85.4			
9/19/2016									
9/20/2016									
10/11/2016								19.8	
10/12/2016	94.1	39.5	7.24	93.9	39.6	53.5	99.3		38.3
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								30.7	
1/25/2017	101	31.3	9.71	103	44	75.4	113		32
1/26/2017									
5/9/2017	91			100		84	74		44
5/10/2017		30	11		32			33	
6/27/2017									
6/28/2017	71	35	10	69	34	120	71	56	88
8/29/2017	80	40	14	77	34	180	72	61	110
8/30/2017									
6/4/2018									
6/5/2018		25	39		22			97	79
6/6/2018	62			81		450	48		
9/10/2018				64					80
9/11/2018	63	23	29		33		62	83	
9/12/2018						200			
11/5/2018	74			68			81		81
11/6/2018									
11/7/2018		30	45		76	180		91	
3/26/2019	92.3	21.6		92	138		92.4	103	
3/27/2019			66.2			335			83.2
9/9/2019									
9/10/2019	89.3	37.4	50.5	63.1	115	193		83.4	87.2
9/11/2019							128		
4/20/2020							76.5		
4/21/2020	121	43.3		99	133	168			
4/22/2020			63.2					84.7	58.7
8/11/2020						242			
8/12/2020								82.2	
8/17/2020									
8/18/2020	89		58.6	63.4	115		203		81.1
8/19/2020		44.5							
3/9/2021		71.7			107	165			
3/10/2021	155			51.7				99.9	73.2
3/15/2021			68.5				204		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-24 (bg)	GC-AP-MW-11
3/16/2021									
8/17/2021									
8/18/2021									
8/23/2021									
8/24/2021		71.4	71.6		139			81.8	
8/25/2021	118			76.1		346	181		126

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-18	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	28.7	<1	60.2						
4/12/2016	32.5	0.49 (J)	68.2						
4/13/2016									
5/31/2016									
6/1/2016	31.9	0.544 (J)	61.4						
8/15/2016		0.332 (J)	56						
8/16/2016				1.78	0.702 (J)	9.33	2.06	0.894 (J)	
8/17/2016	30.5								0.928 (J)
9/19/2016				2.06		11.2	1.44		
9/20/2016					<1			<1	0.478 (J)
10/11/2016	32.3	<1		2.33	<1	12.6	1.38	<1	
10/12/2016			36.6						0.727 (J)
11/14/2016				2.31		12.4	1.15		
11/15/2016					<1			1.19	0.448 (J)
1/3/2017				2.81		14.3	1.57		
1/4/2017					<1			<1	0.627 (J)
1/23/2017					0.493 (J)				1.34
1/24/2017	33.5	<1	12.3	3.34			2.06		
1/25/2017						15.2			
1/26/2017								0.6 (J)	
5/9/2017	33	2.1 (J)			<1			<1	<1
5/10/2017			10	2.9 (J)		12	2.1 (J)		
6/27/2017			9.7	3.4 (J)	<1	13	2.7 (J)	<1	<1
6/28/2017	35	<1							
8/29/2017	37								<1
8/30/2017		<1	7.8	3.7 (J)	<1	15	2.6 (J)	<1	
6/4/2018		1.4 (J)							
6/5/2018			13	3.7 (J)	<1	17	3.1 (J)	1.4 (J)	2.1 (J)
6/6/2018	47								
9/10/2018									
9/11/2018				2.2 (J)	<1	16	1.6 (J)	<1	<1
9/12/2018	41	<1	28						
11/5/2018							2.4 (J)		
11/6/2018	48	<1	11	3.1 (J)	<1	15		<1	<1
11/7/2018									
3/26/2019			21.3		<1			0.594 (J)	1.66
3/27/2019	62.4	6.64		3.55		15.1	3.24		
9/9/2019		6.56	17.8						
9/10/2019	66								
9/11/2019				3.83	<1	14.5	2.66	<1	1.29
4/20/2020		10.5							
4/21/2020			19.2		<1			0.694 (J)	2.21
4/22/2020	76.1			3.78		9.64	2.51		
8/11/2020	79.5			4.33					
8/12/2020			13.8			13.6	2.54		
8/17/2020		17.3							
8/18/2020					<1			0.608 (J)	1.57
8/19/2020									
3/9/2021			11.6						
3/10/2021	70.3								
3/15/2021				3.74	<1	2.76	8.5	<1	2.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	6.46	16.2
9/19/2016		
9/20/2016	8.3	14.9
10/11/2016		
10/12/2016	8.36	12.4
11/14/2016		
11/15/2016	8.75	8.6
1/3/2017		
1/4/2017	7.85	12.2
1/23/2017		16
1/24/2017	6.62	
1/25/2017		
1/26/2017		
5/9/2017	5.6	55
5/10/2017		
6/27/2017	5.3	45
6/28/2017		
8/29/2017		37
8/30/2017	8.2	
6/4/2018		
6/5/2018	8.3	9.3
6/6/2018		
9/10/2018		
9/11/2018	8.9	7.8
9/12/2018		
11/5/2018		
11/6/2018	8.6	6
11/7/2018		
3/26/2019	10.1	6.86
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	10.6	5.29
4/20/2020		
4/21/2020	9.4	6.28
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	10.3	9.57
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	10.4	7.66

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg) GC-AP-MW-26 (bg)

3/16/2021		
8/17/2021		
8/18/2021	10.1	7.07
8/23/2021		
8/24/2021		
8/25/2021		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-23 (bg)
2/16/2016	312	656	264	264	242	226	340		
2/17/2016								892	142
4/12/2016					176		298		155
4/13/2016	324	634	226	238		202		1010	
5/31/2016	333			206	189		309	1100	
6/1/2016		672	231			224			148
8/15/2016									
8/16/2016	327		181	180	192				132
8/17/2016		624				290	269	1070	
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	312	586	225	223		315		1040	
10/31/2016									
11/1/2016					244		252		
11/2/2016									115
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									107
1/25/2017	286	596	277	271	274	332	259	972	
1/26/2017									
5/9/2017			255	236	191		285		80.7
5/10/2017	326	576				361		740	
6/27/2017									96.7
6/28/2017	304	612	175	198	176	396	348	914	
8/29/2017	348	640	218	187	163	402	528	924	120
8/30/2017									
6/4/2018									
6/5/2018	346	474				448		1060	113
6/6/2018			207	199	138		932		
9/10/2018			197						
9/11/2018	335	496		184	185	462		1020	108
9/12/2018							180		
11/5/2018			200	210	208				
11/6/2018									
11/7/2018	342	514				506	528	1050	96.7
3/26/2019		546	218	230	198	586		1100	103
3/27/2019	347						834		
9/9/2019									
9/10/2019	351	601 (D)	198	218 (D)		586	658	1100	107
9/11/2019					316				
4/20/2020					201				
4/21/2020		638	265	291		578	628	1010	107
4/22/2020	338								
8/11/2020							688		
8/12/2020									96
8/17/2020									
8/18/2020	376		179	250	444	542			
8/19/2020		658						1050	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-23 (bg)
3/9/2021		746				532	618	1090	
3/10/2021			296	331					105
3/15/2021	406				374				
3/16/2021									
8/17/2021									
8/18/2021									
8/23/2021									
8/24/2021	423	690				624		930	96.7
8/25/2021			207	263	359		774		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-6	GC-AP-MW-2	GC-AP-MW-5	GC-AP-MW-1	GC-AP-MW-11	GC-AP-MW-17	GC-AP-MW-3	GC-AP-MW-15
2/16/2016									
2/17/2016	310	640	516	238	1540	158	328	358	408
4/12/2016		610		316				393	334
4/13/2016	372		508		1200	161	373		
5/31/2016		626		320		173			351
6/1/2016	360		494		1440		442	381	
8/15/2016	366		476		1420		392	348	
8/16/2016						173			367
8/17/2016		628		325					
9/19/2016									
9/20/2016									
10/11/2016		636	508	333	1420			379	
10/12/2016						173			
10/31/2016									
11/1/2016									372
11/2/2016	374						469		
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	380	696	510	336	1350		464	354	354
1/25/2017						161			
1/26/2017									
5/9/2017			510	317	1540	195		368	
5/10/2017	381	687					492		332
6/27/2017	404				1470		516		331
6/28/2017		622	480	373		227		368	
8/29/2017		616				229			
8/30/2017	420		478	432	1530		646	370	317
6/4/2018			528		1370			369	
6/5/2018	408	582		347		200	644		318
6/6/2018									
9/10/2018			472		1380	183			
9/11/2018		616		370					321
9/12/2018	415						476	354	
11/5/2018						193			
11/6/2018	447		522	409	1450		634	354	331
11/7/2018		576							
3/26/2019	481	682					516		338 (D)
3/27/2019			562	328	1910	211		362	
9/9/2019			666				500	371	
9/10/2019	453	744			1740	201			358
9/11/2019				455					
4/20/2020	461							371	369
4/21/2020		742	878	494	1530		490		
4/22/2020						249			
8/11/2020	482						522		
8/12/2020				433					401
8/17/2020			818		1590			361	
8/18/2020						260			
8/19/2020		788							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-6	GC-AP-MW-2	GC-AP-MW-5	GC-AP-MW-1	GC-AP-MW-11	GC-AP-MW-17	GC-AP-MW-3	GC-AP-MW-15
3/9/2021	524	716					684		
3/10/2021						274			397
3/15/2021									
3/16/2021			890	510	1620			340	
8/17/2021	490		808		1340		506	297	
8/18/2021									
8/23/2021				481					
8/24/2021		792							
8/25/2021						358			407

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	36.7	64
9/19/2016		
9/20/2016	25.3	60
10/11/2016		
10/12/2016	<25	54.7
10/31/2016		
11/1/2016		
11/2/2016		
11/28/2016		
11/29/2016	<25	42
1/3/2017		
1/4/2017	27.3	56
1/23/2017	<25	50.7
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	28.7	126
5/10/2017		
6/27/2017	27.3	93.3
6/28/2017		
8/29/2017	30.7	84
8/30/2017		
6/4/2018		
6/5/2018	26	38.7
6/6/2018		
9/10/2018		
9/11/2018	<25	35.3
9/12/2018		
11/5/2018		
11/6/2018	26	40.7
11/7/2018		
3/26/2019	<25	36.7
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	27.3	40.7
4/20/2020		
4/21/2020	30.7	39.3
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	27.3	42
8/19/2020		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/18/2021 6:08 PM View: PLs
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg) GC-AP-MW-26 (bg)

3/9/2021		
3/10/2021		
3/15/2021	30.7	42.7
3/16/2021		
8/17/2021		
8/18/2021	28.7	43.3
8/23/2021		
8/24/2021		
8/25/2021		

FIGURE E.

Trend Test Summary - Prediction Limit Exceedances - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.02081	71	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2041	87	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08039	107	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1127	73	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08103	65	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05803	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.005272	84	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03503	77	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.08403	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.209	112	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-17.24	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11	4.674	117	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	6.808	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	19.03	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	4.046	85	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.568	135	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.432	101	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	12.36	82	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.422	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	7.167	137	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.202	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.2296	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-31	-5.985	-137	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.433	123	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	21.18	102	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.5946	76	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.06253	-72	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-0.9813	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	4.357	121	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02762	91	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01593	90	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.008196	73	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.01511	91	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-8	0.008132	99	68	Yes	18	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-18	0.02099	91	87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-2	-0.03442	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-21	-0.1056	-111	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.08781	-136	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05649	-92	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-25	-0.02903	-96	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1145	-122	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1998	-123	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.5724	-169	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.1632	-156	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-31	-0.2964	-215	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	12.49	119	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	11.03	75	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	32.47	73	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-9.591	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-16	-9.018	-76	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-21	-7.989	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.495	-114	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	18.74	104	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-25	8.676	131	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-1.883	-69	-68	Yes	18	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - Significant Results Page 2

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 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>
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.621	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-3	1.821	96	68	Yes	18	38.89	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-31	0.3994	110	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	31.37	123	68	Yes	18	5.556	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	13.6	96	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	21.85	113	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	29.07	139	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	34.4	84	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	46.99	77	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-7.672	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	29.12	108	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	15.53	103	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.803	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-7.696	-94	-68	Yes	18	55.56	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-31	-11.44	-102	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	37.62	113	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	84.19	130	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.02081	71	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	0.03079	23	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.04768	-50	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	0.01284	4	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.03747	22	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2041	87	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08039	107	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1127	73	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08103	65	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05803	-70	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.003153	38	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	-0.007483	-12	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	31	63	No	17	82.35	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.005272	84	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	6	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	19	63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	6	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	10	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-3	0.003336	53	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-31	0	6	63	No	17	94.12	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03503	77	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.08403	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-7	0.04246	42	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.06666	45	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.209	112	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-17.24	-73	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	2.375	57	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11	4.674	117	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	2.257	53	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	6.808	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	19.03	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	4.046	85	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.568	135	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.432	101	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-1.983	-34	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	12.36	82	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21	0.02495	1	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.422	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	7.167	137	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-25	0.3412	41	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.4131	-51	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.01359	7	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.202	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.2296	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	-3.136	-25	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1035	-55	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-31	-5.985	-137	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.433	123	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	3.914	52	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	0.8153	6	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.404	43	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	21.18	102	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-1	-0.9707	-22	-68	No	18	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - All Results Page 2

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-10	0.3117	23	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.5547	-36	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.6098	-36	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	-0.7281	-30	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.7811	-62	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-15	0	-5	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.4435	-38	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-0.8258	-36	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.5946	76	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.2281	-20	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	0.2131	11	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.06253	-72	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.1493	17	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-1.023	-59	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.06722	-20	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.1165	55	68	No	18	5.556	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.07889	-53	-68	No	18	11.11	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.2872	-64	-68	No	18	11.11	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	-0.1304	-27	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.3834	50	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31	0.04384	38	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-0.9813	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	1.846	54	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	5.463	55	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	0.3827	2	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	4.357	121	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-1	0.01675	53	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.004011	17	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-11	0.01011	37	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.007821	47	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-13	-0.01152	-55	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02762	91	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-15	0.007359	55	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01593	90	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03042	65	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.008196	73	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-2	0.002309	17	68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-21	-0.004472	-22	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.001166	19	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	53	68	No	18	61.11	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-25	0.00132	64	68	No	18	61.11	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	0	-7	-48	No	14	42.86	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	16	63	No	17	94.12	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	9	63	No	17	88.24	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	31	68	No	18	88.89	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.01511	91	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	17	68	No	18	94.44	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-31	0	52	68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0.003519	29	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.004591	33	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-7	0.004647	64	68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-8	0.008132	99	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-9	0.003148	25	68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-1	-0.05203	-80	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-10	-0.02949	-40	-81	No	20	0	n/a	n/a	0.01	NP

Trend Test Summary - Prediction Limit Exceedances - All Results Page 3

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (SU)	GC-AP-MW-11	0.05718	48	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-12	0.01338	44	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-13	0.0416	34	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-14	-0.0186	-32	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-15	-0.01006	-48	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-16	0.01897	66	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-17	0.04252	67	87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-18	0.02099	91	87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-2	-0.03442	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-21	-0.1056	-111	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.08781	-136	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05649	-92	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-25	-0.02903	-96	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.1266	-85	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1145	-122	-87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1998	-123	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.5724	-169	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-3	-0.01997	-32	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.1632	-156	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-31	-0.2964	-215	-92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-5	-0.0211	-50	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-6	0.004905	16	81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-7	-0.01606	-75	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-8	0	-2	-81	No	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-9	-0.04491	-48	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	24.86	61	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	12.49	119	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	11.03	75	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-12	-0.2485	-3	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	9.79	34	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	32.47	73	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-9.591	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-16	-9.018	-76	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-17	-5.543	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-18	-7.17	-57	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	37.03	63	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-21	-7.989	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.495	-114	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	18.74	104	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-25	8.676	131	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-1.883	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.3369	64	68	No	18	27.78	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.621	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	10	68	No	18	55.56	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-3	1.821	96	68	Yes	18	38.89	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	8	68	No	18	83.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-31	0.3994	110	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	31.37	123	68	Yes	18	5.556	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	9.524	45	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	4.816	12	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-8	-1.087	-8	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	17.94	62	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	31.17	36	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	13.6	96	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	21.85	113	68	Yes	18	0	n/a	n/a	0.01	NP

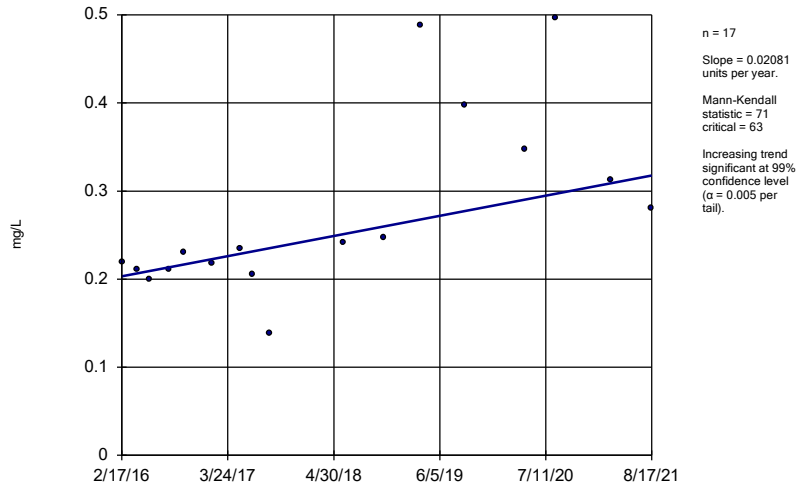
Trend Test Summary - Prediction Limit Exceedances - All Results Page 4

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	GC-AP-MW-12	8.513	31	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	18.54	50	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	88.77	68	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	4.632	22	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	29.07	139	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	34.4	84	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-13.62	-45	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	46.99	77	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-4.584	-23	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-7.672	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	29.12	108	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	15.53	103	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-3.865	-45	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.5112	30	68	No	18	27.78	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.803	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-7.696	-94	-68	Yes	18	55.56	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-4.673	-42	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	0.8435	38	68	No	18	27.78	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-31	-11.44	-102	-68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	37.62	113	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	24.46	50	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	11.34	26	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	4.354	11	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	84.19	130	68	Yes	18	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

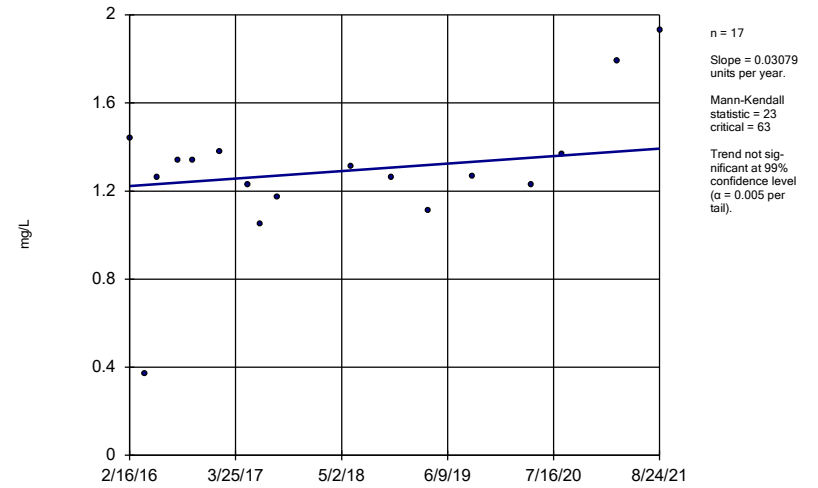
GC-AP-MW-1



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

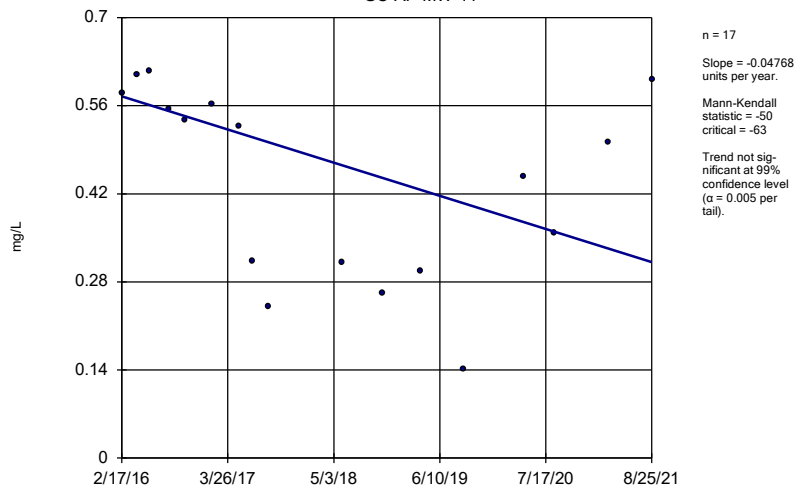
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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

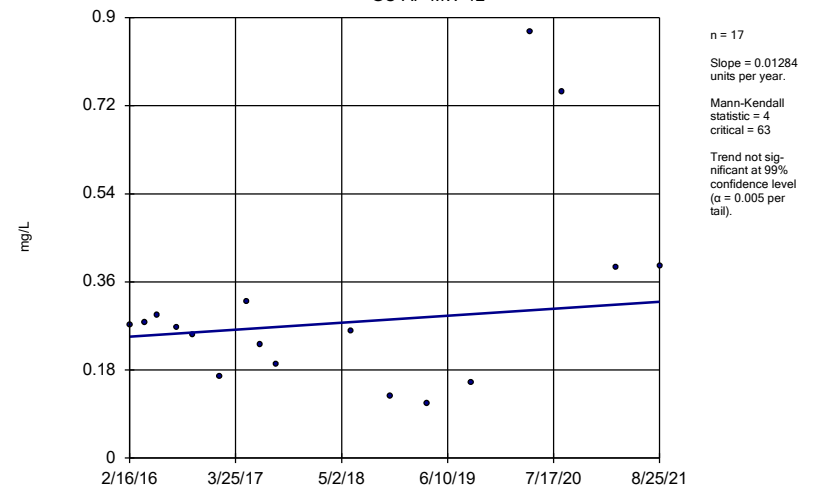
GC-AP-MW-11



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

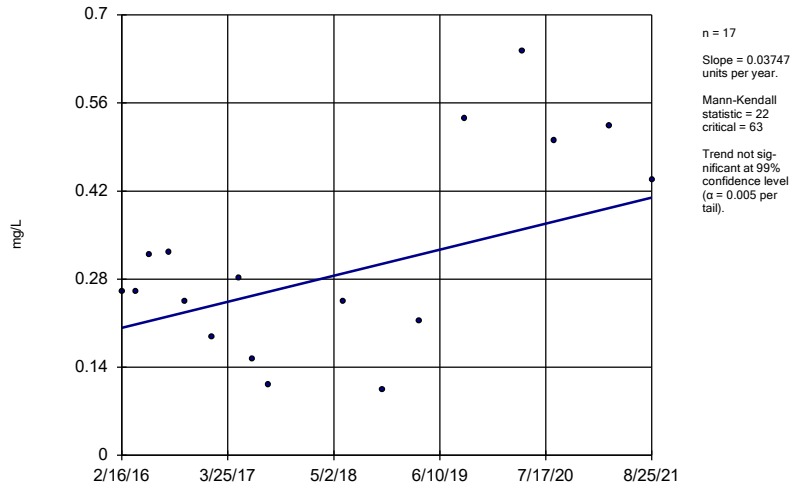
GC-AP-MW-12



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

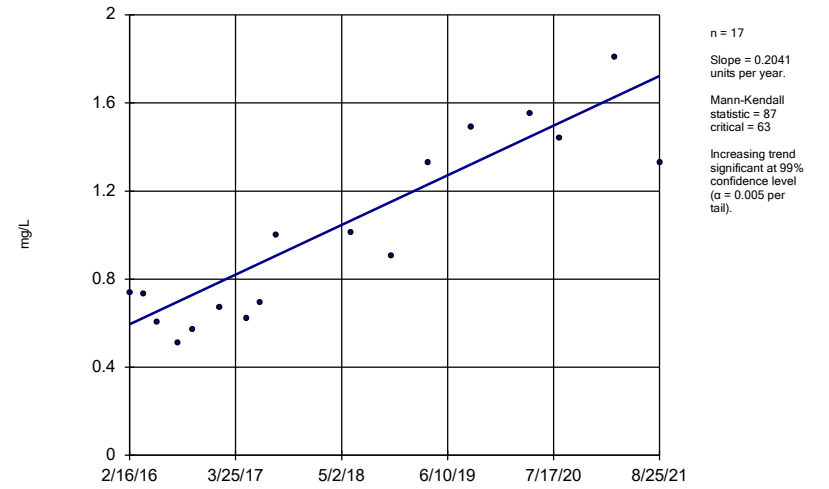
GC-AP-MW-13



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

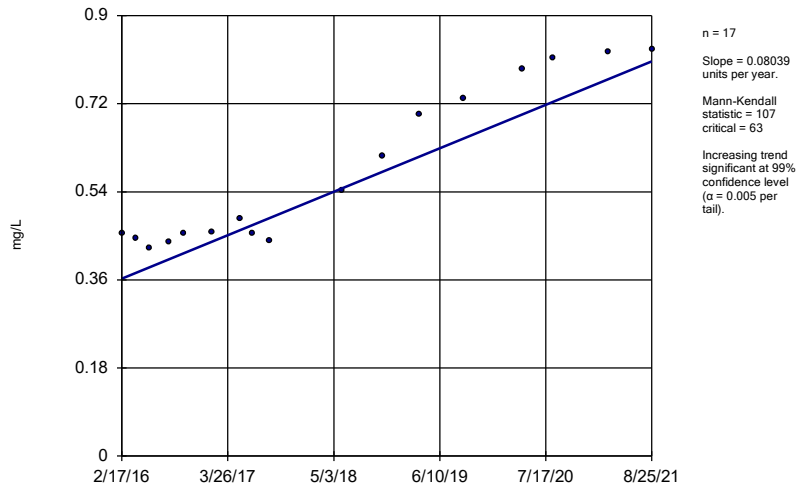
GC-AP-MW-14



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

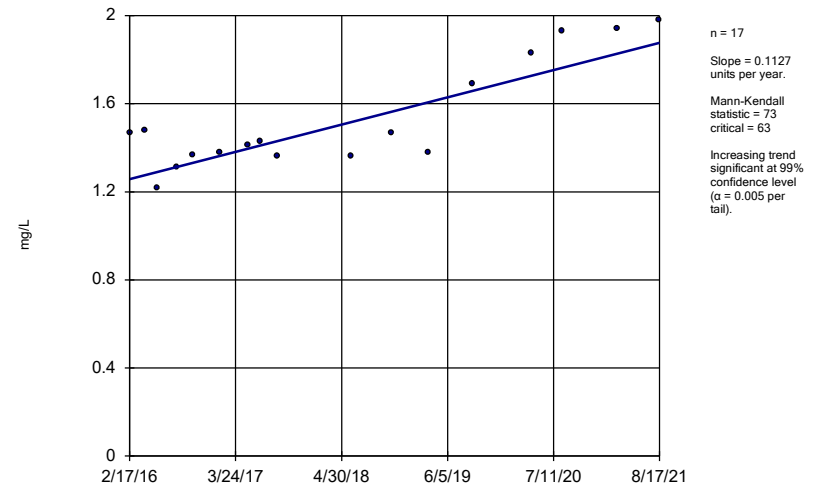
GC-AP-MW-15



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

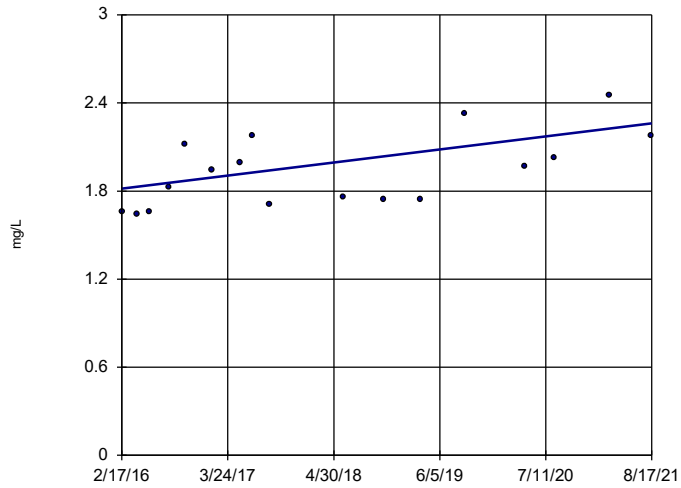
GC-AP-MW-16



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-17

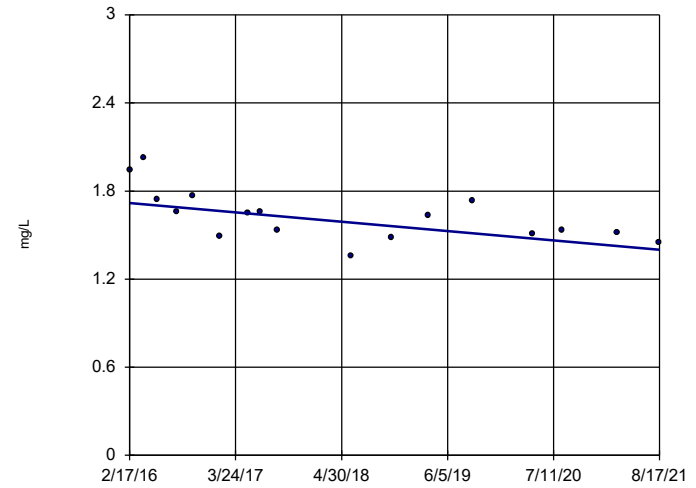


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 Slope = 0.08103
 units per year.
 Mann-Kendall
 statistic = 65
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-18

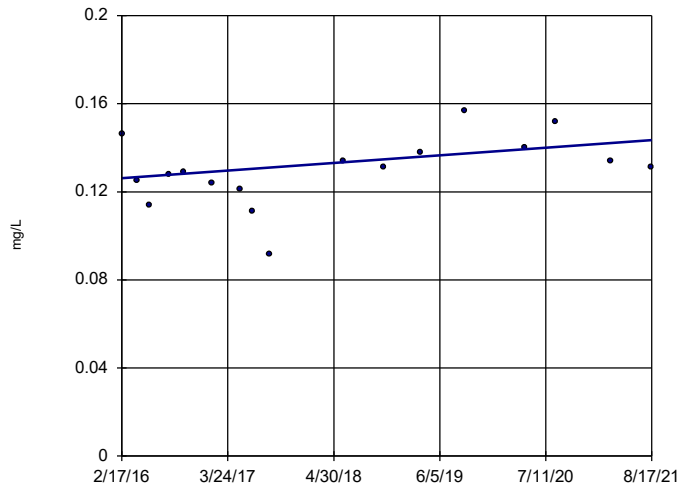


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 units per year.
 Mann-Kendall
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 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
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 tail).

Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-2

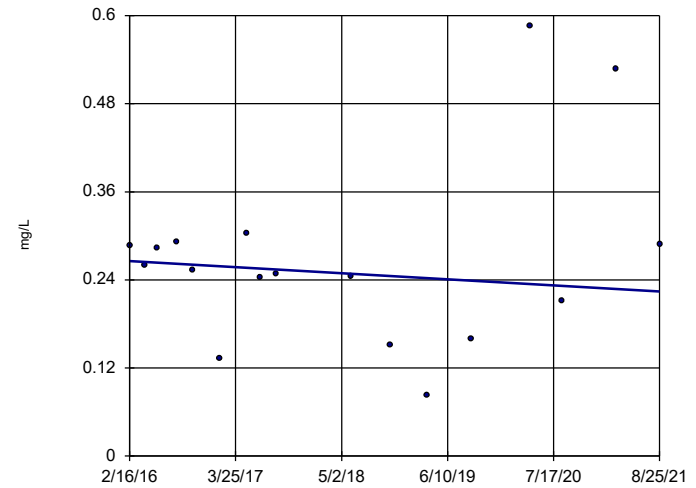


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 Mann-Kendall
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 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
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 tail).

Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-21

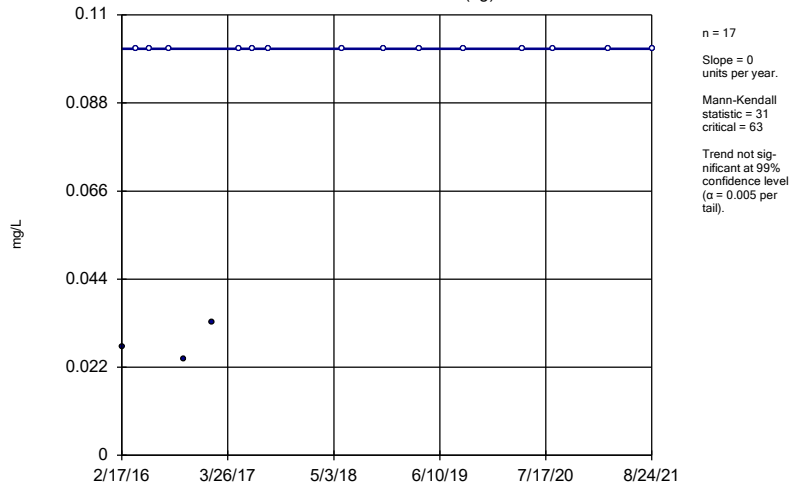


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 Slope = -0.007483
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

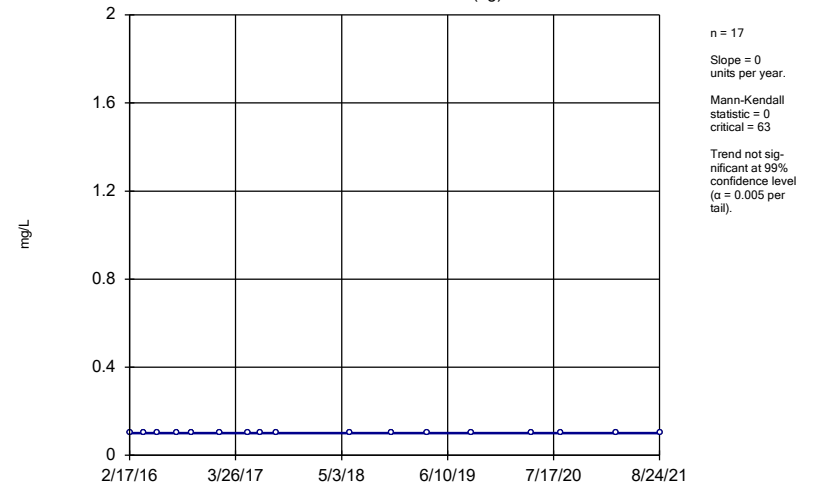
GC-AP-MW-23 (bg)



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

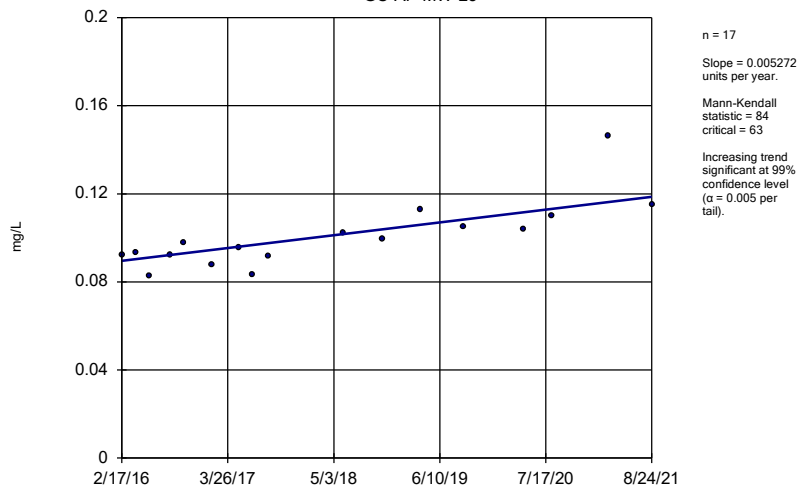
GC-AP-MW-24 (bg)



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

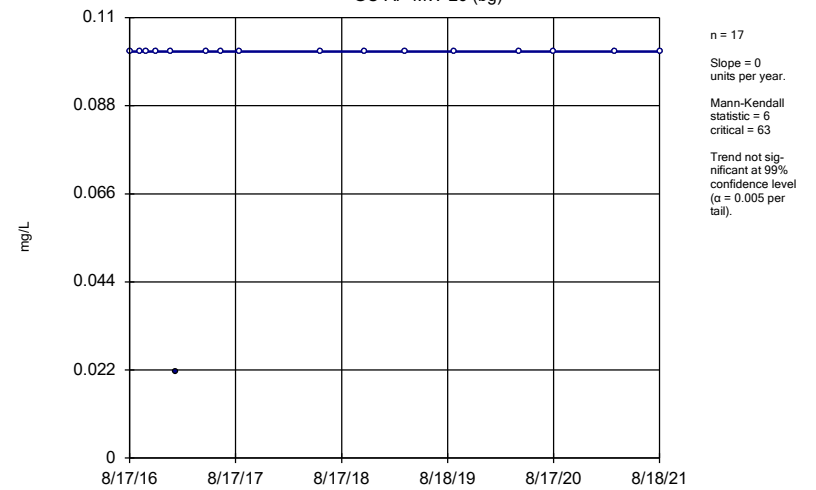
GC-AP-MW-25



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

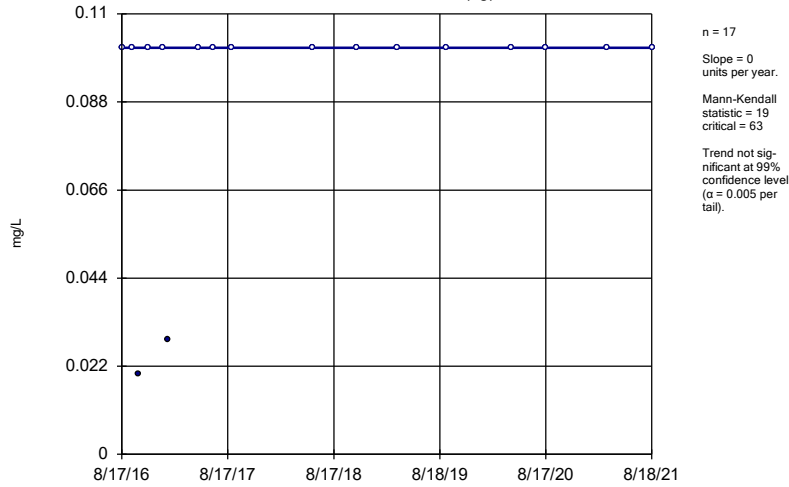
GC-AP-MW-26 (bg)



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

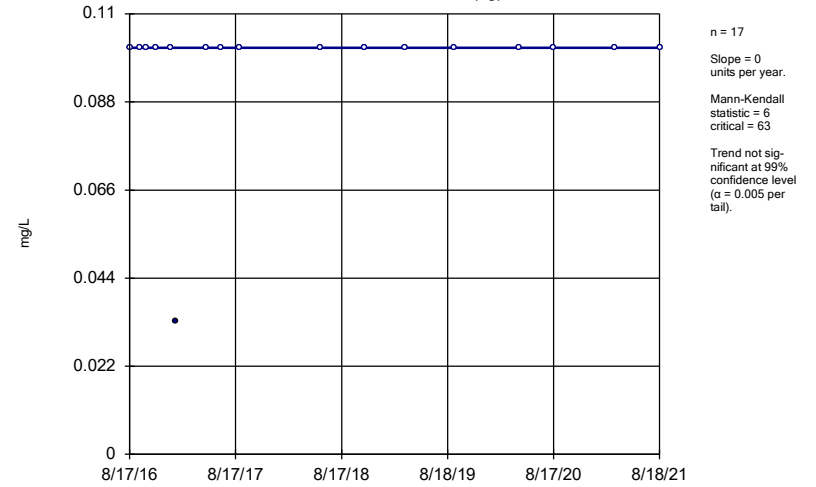
GC-AP-MW-27 (bg)



Constituent: Boron Analysis Run 11/18/2021 6:11 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

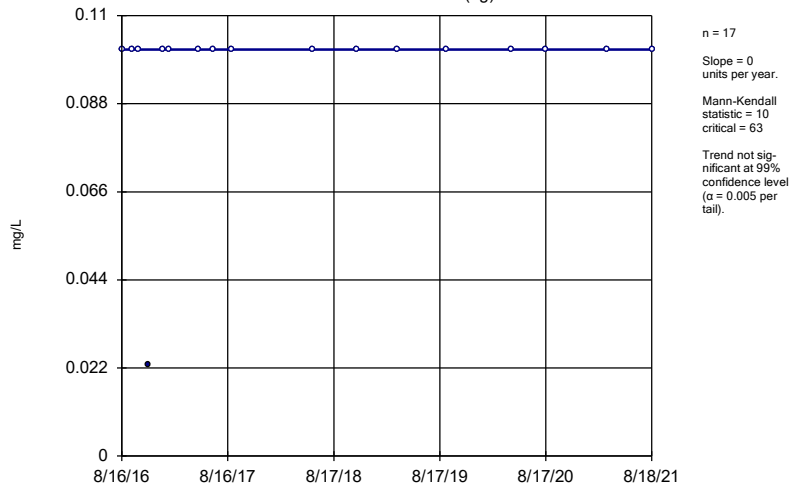
GC-AP-MW-28 (bg)



Constituent: Boron Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

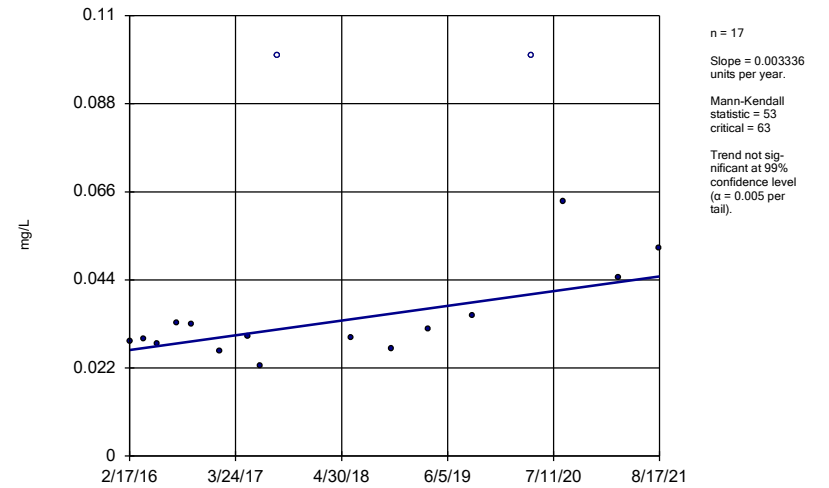
GC-AP-MW-29 (bg)



Constituent: Boron Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

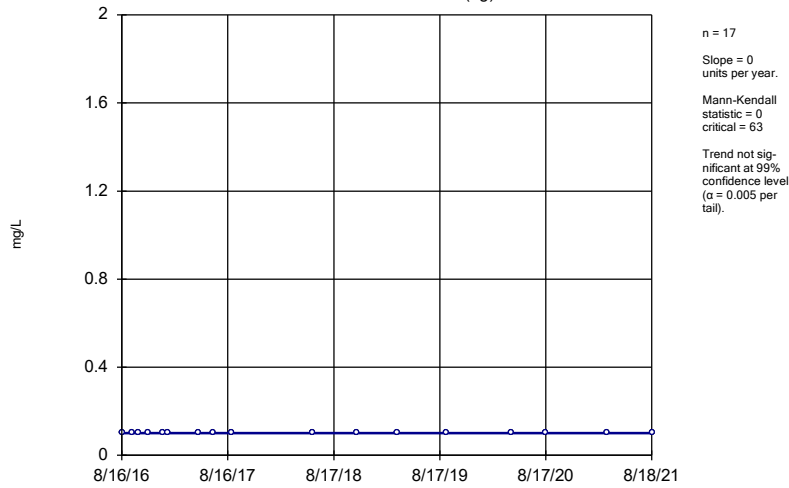
GC-AP-MW-3



Constituent: Boron Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

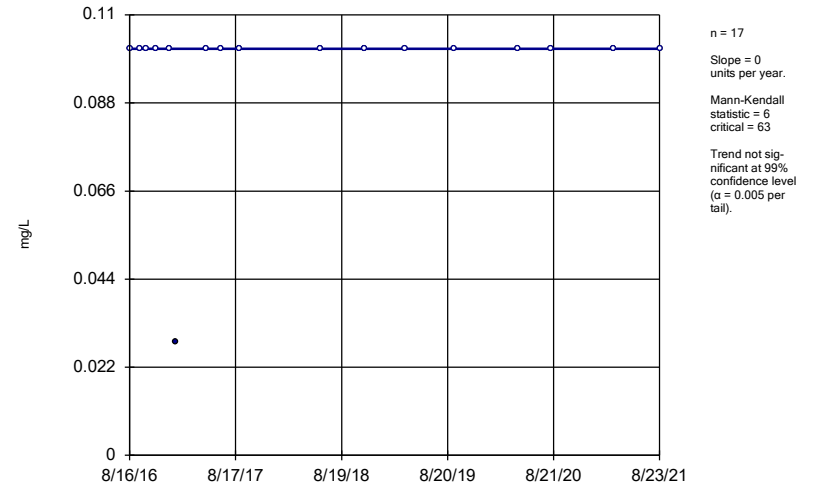
GC-AP-MW-30 (bg)



Constituent: Boron Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

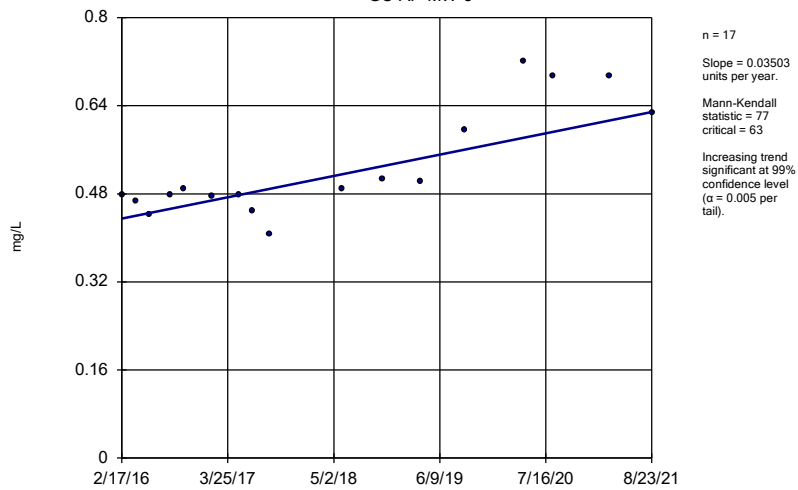
GC-AP-MW-31



Constituent: Boron Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

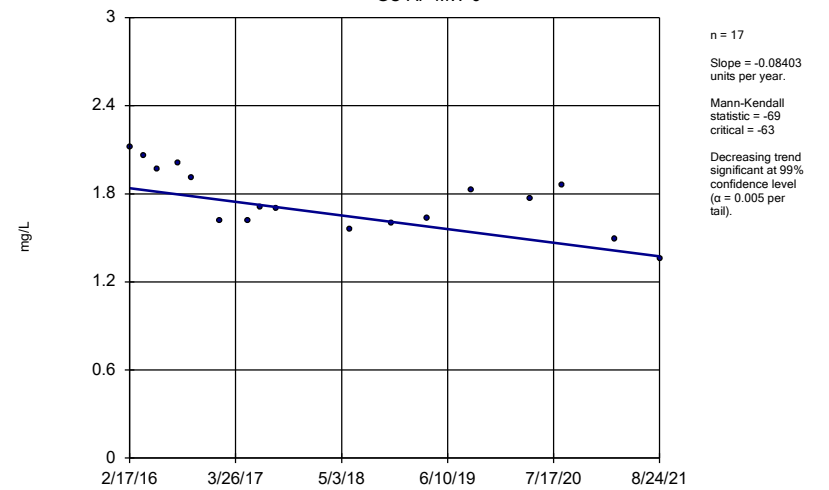
GC-AP-MW-5



Constituent: Boron Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

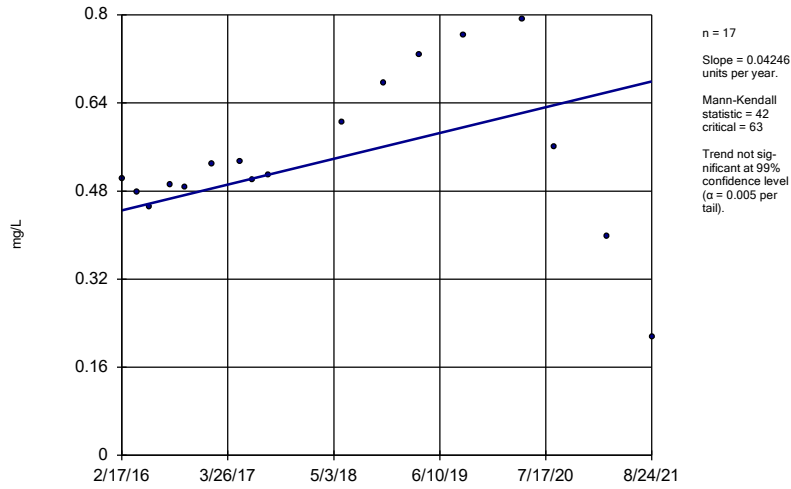
GC-AP-MW-6



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

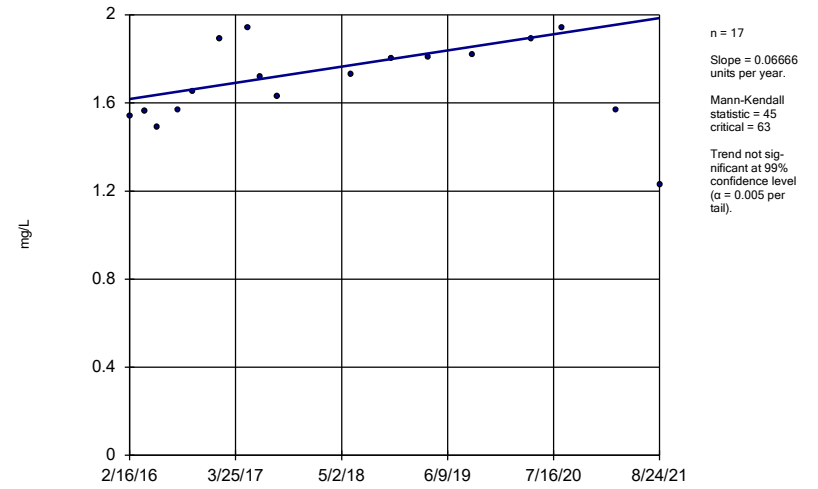
GC-AP-MW-7



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

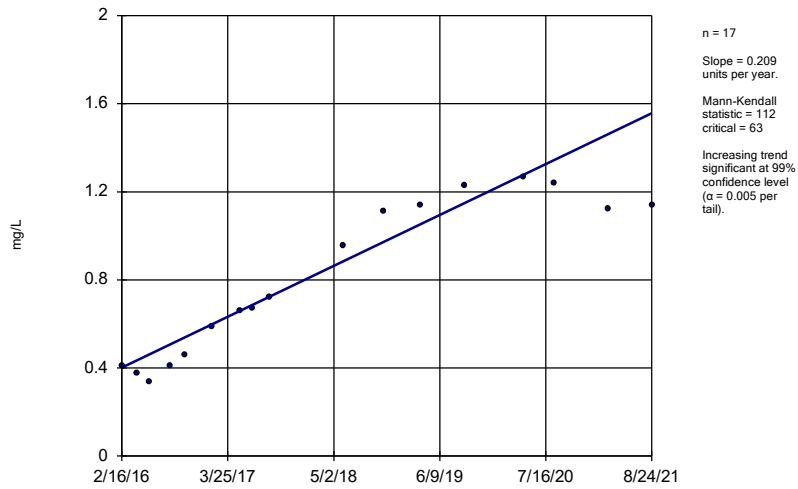
GC-AP-MW-8



Constituent: Boron Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

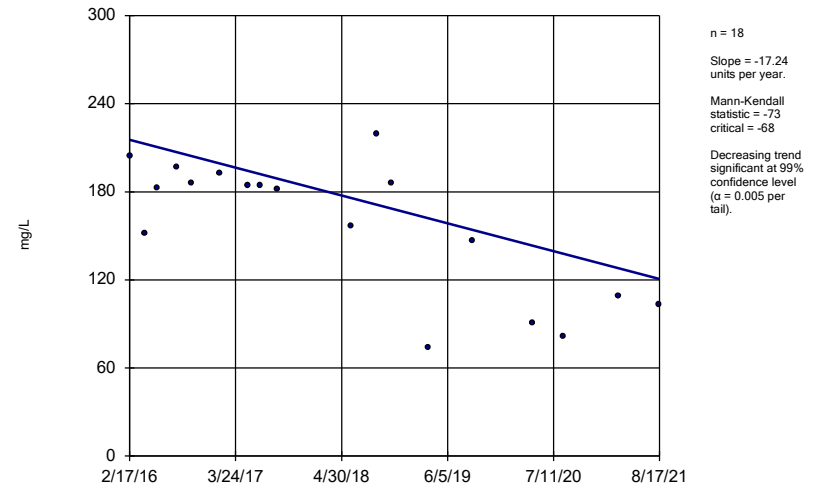
GC-AP-MW-9



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

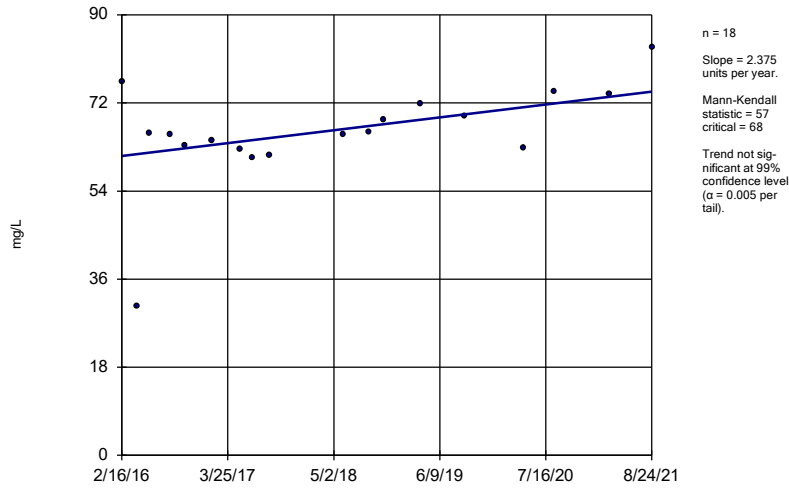
GC-AP-MW-1



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

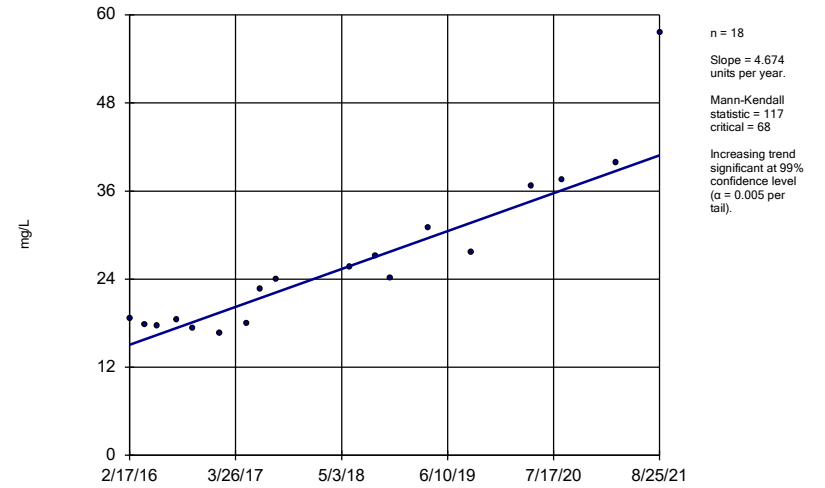
GC-AP-MW-10



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

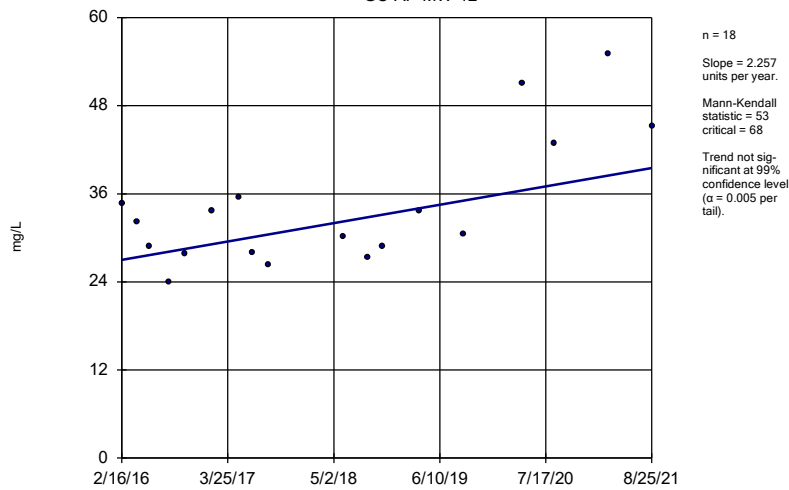
GC-AP-MW-11



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

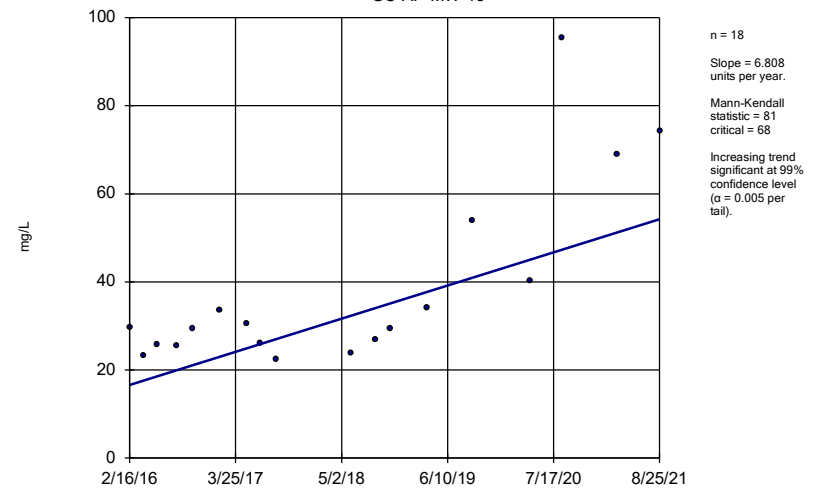
GC-AP-MW-12



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

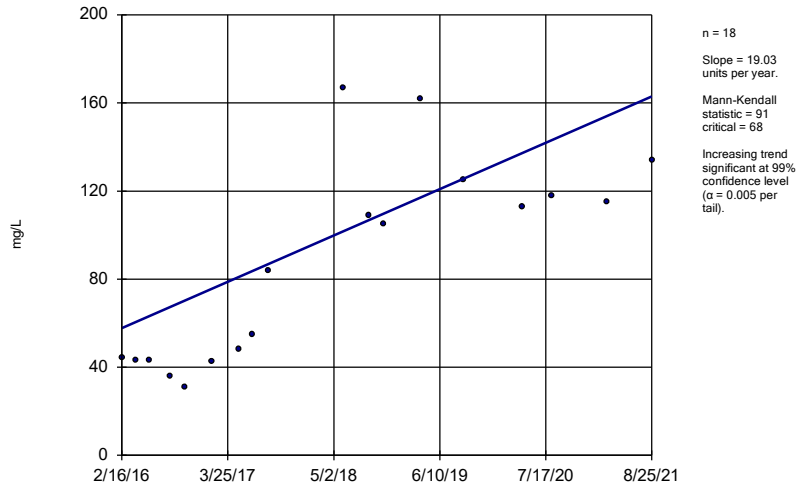
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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

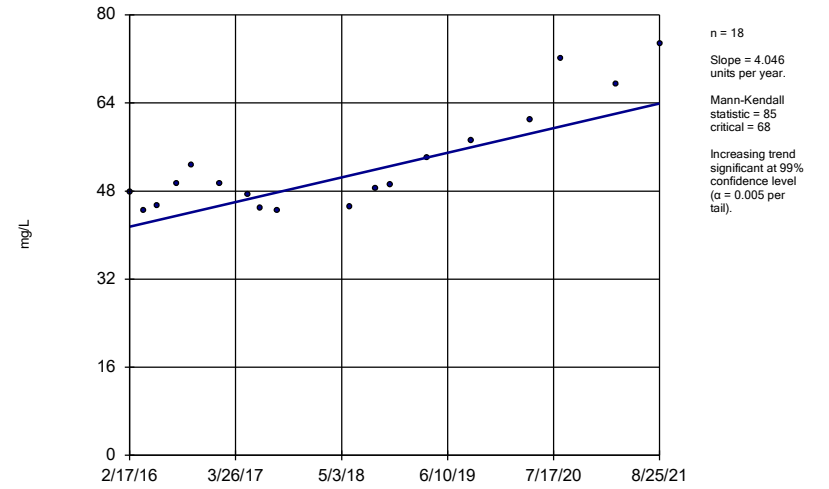
GC-AP-MW-14



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

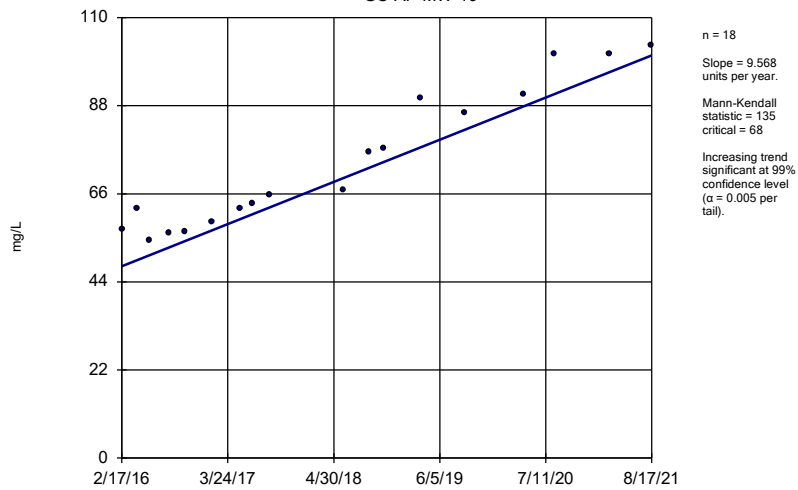
GC-AP-MW-15



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

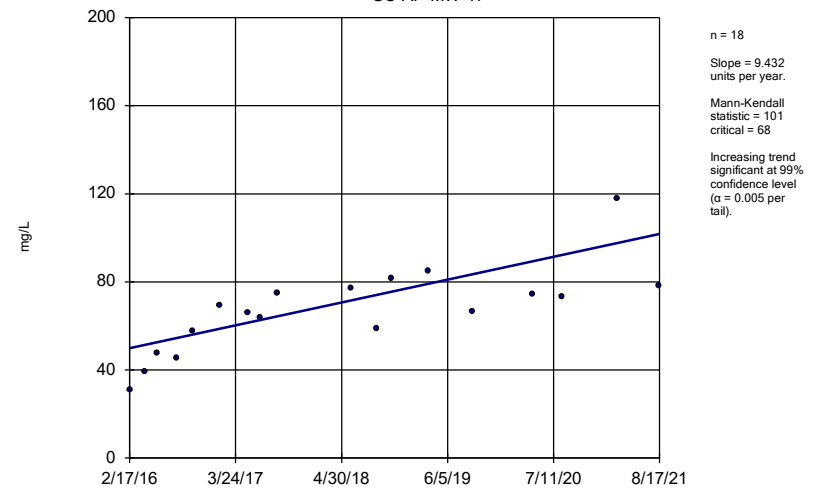
GC-AP-MW-16



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

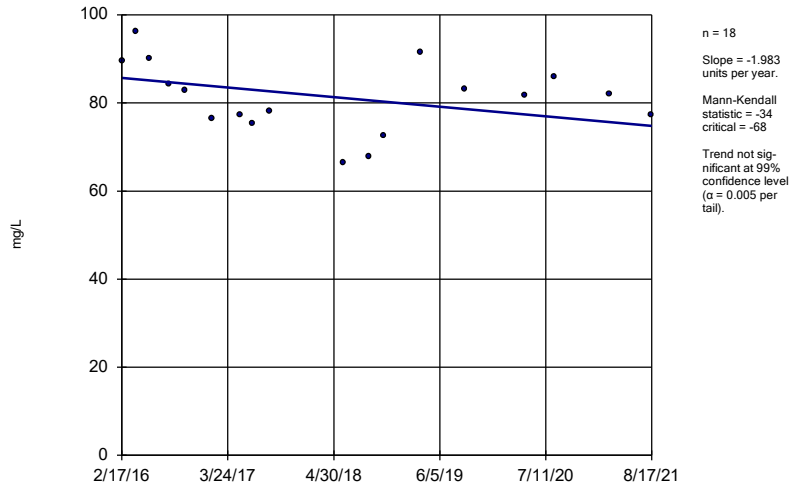
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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

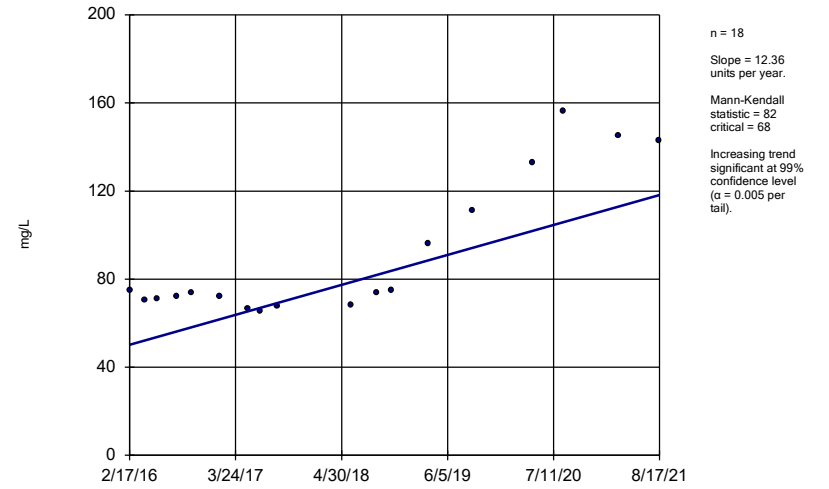
GC-AP-MW-18



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

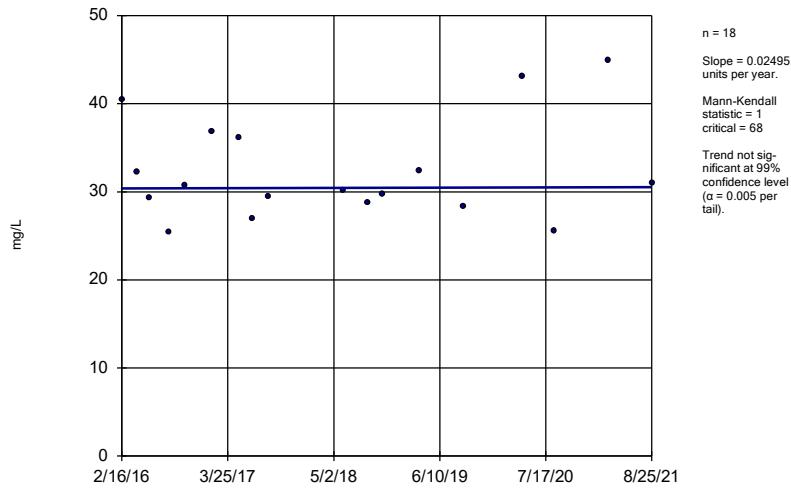
GC-AP-MW-2



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

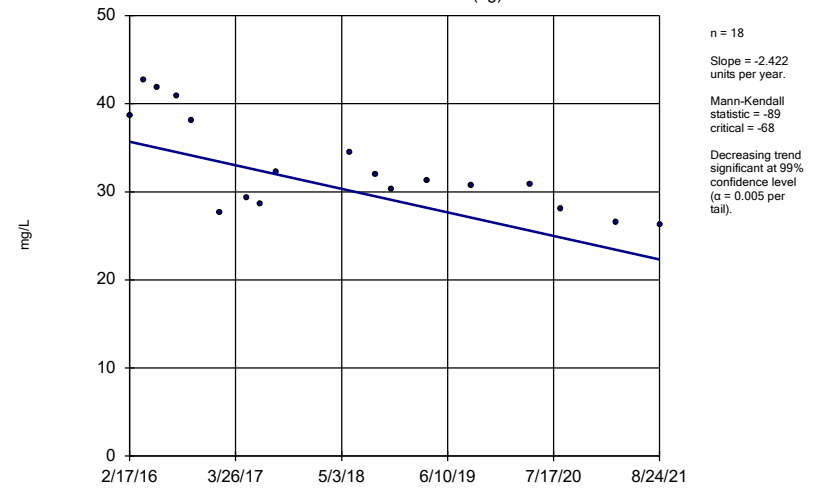
GC-AP-MW-21



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

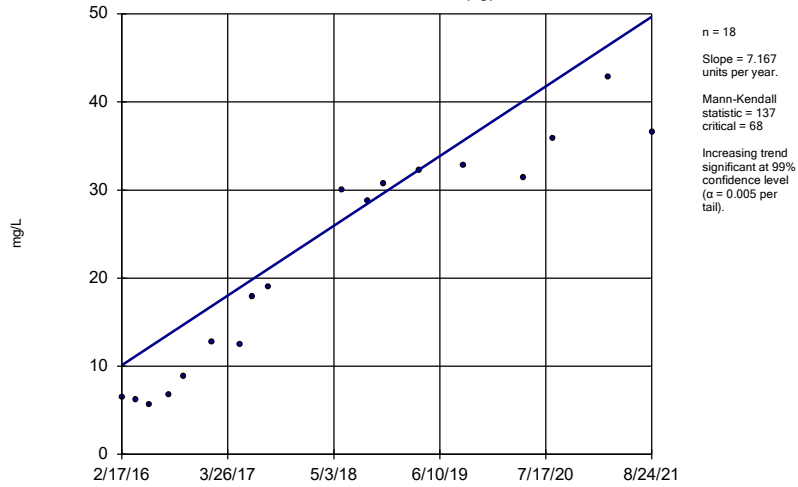
GC-AP-MW-23 (bg)



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

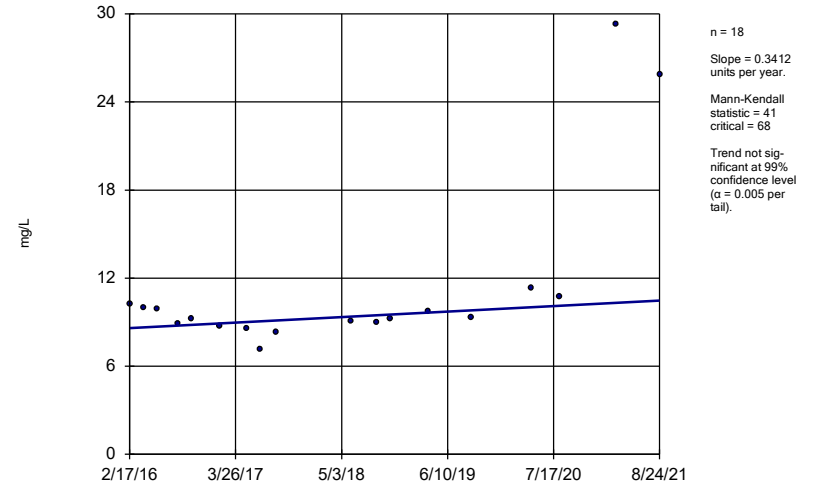
GC-AP-MW-24 (bg)



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

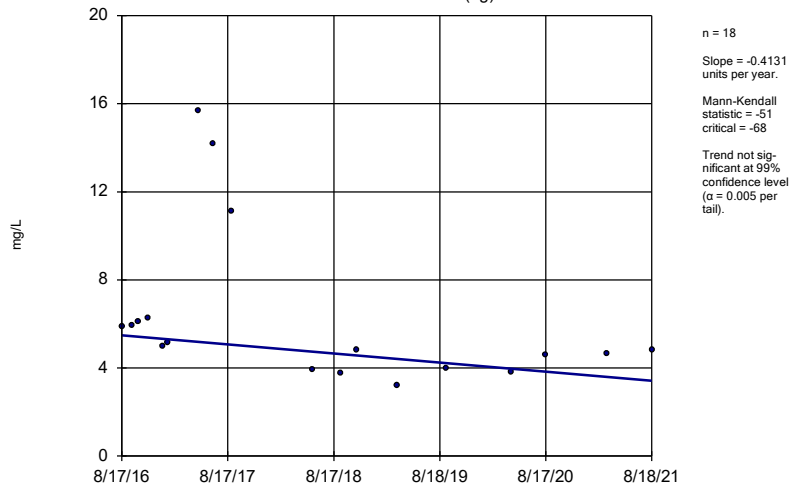
GC-AP-MW-25



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

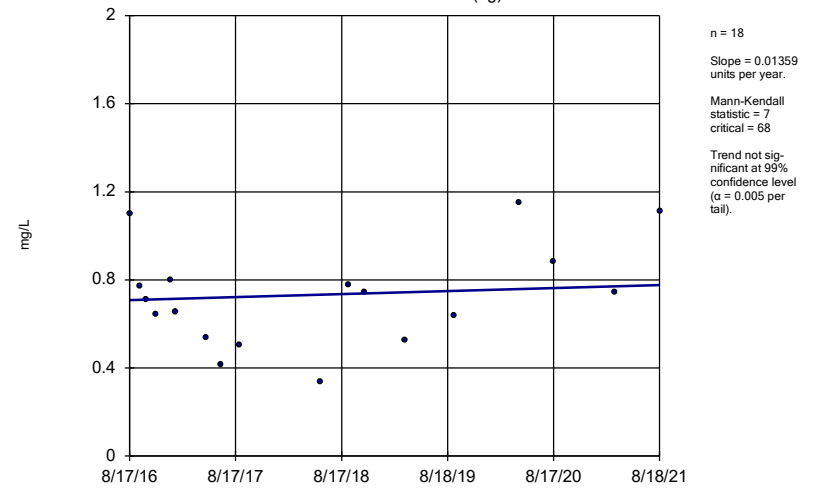
GC-AP-MW-26 (bg)



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

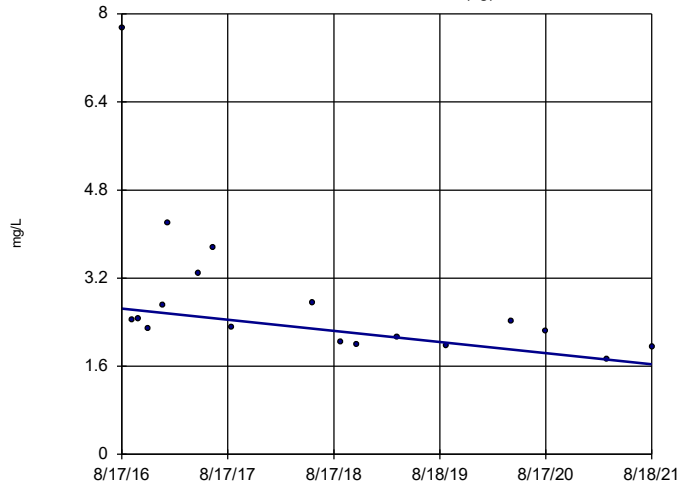
GC-AP-MW-27 (bg)



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-28 (bg)

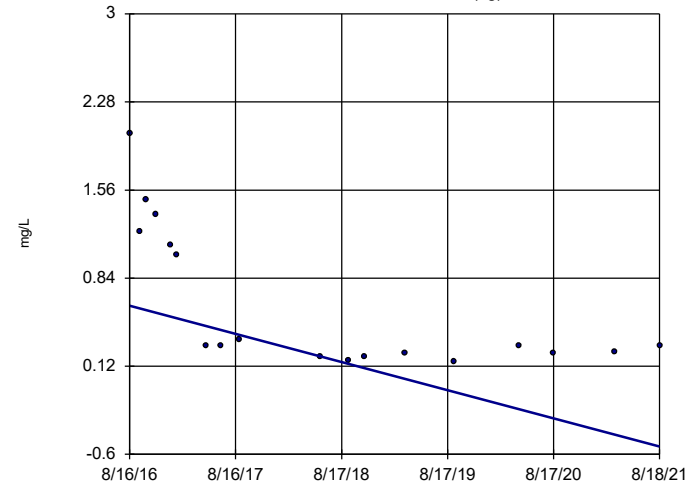


n = 18
 Slope = -0.202
 units per year.
 Mann-Kendall
 statistic = -81
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-29 (bg)

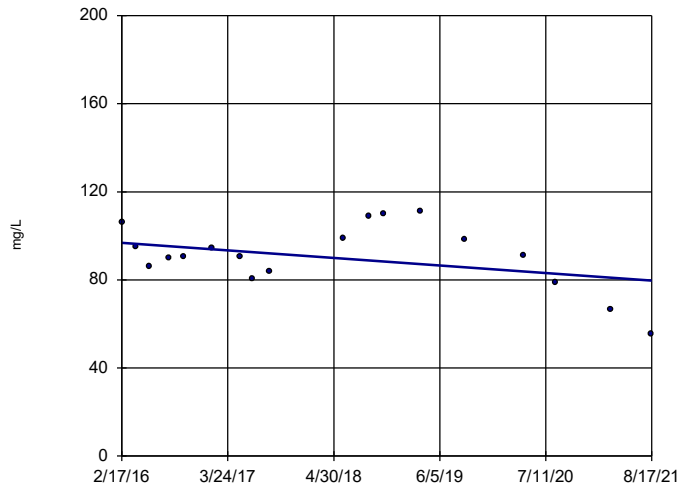


n = 18
 Slope = -0.2296
 units per year.
 Mann-Kendall
 statistic = -89
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-3

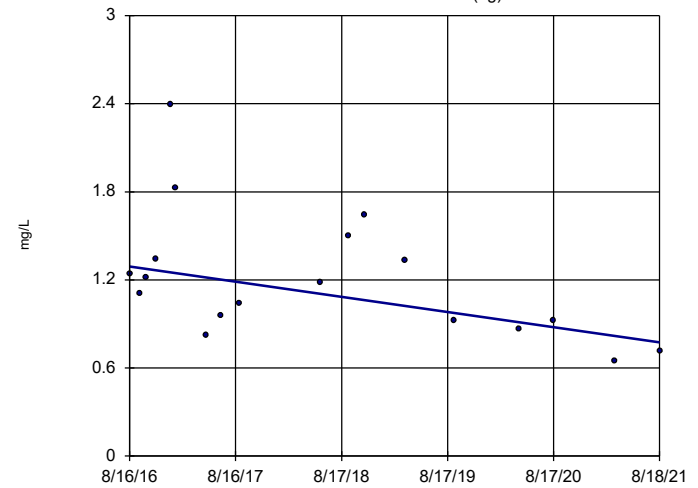


n = 18
 Slope = -3.136
 units per year.
 Mann-Kendall
 statistic = -25
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-30 (bg)

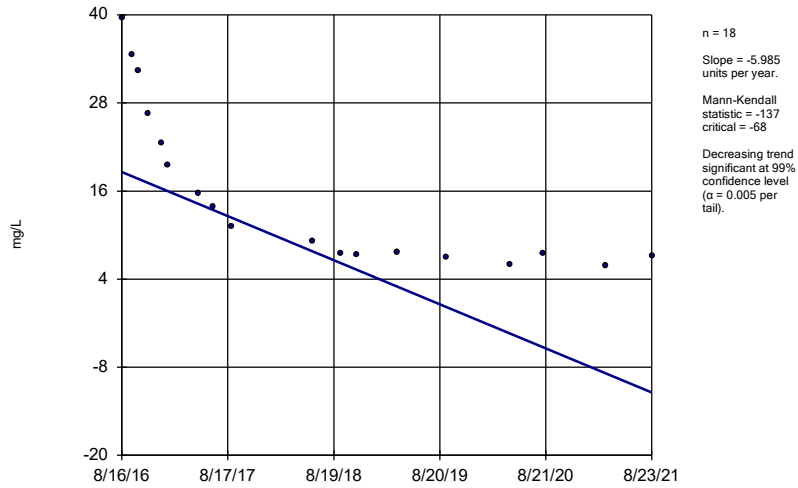


n = 18
 Slope = -0.1035
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

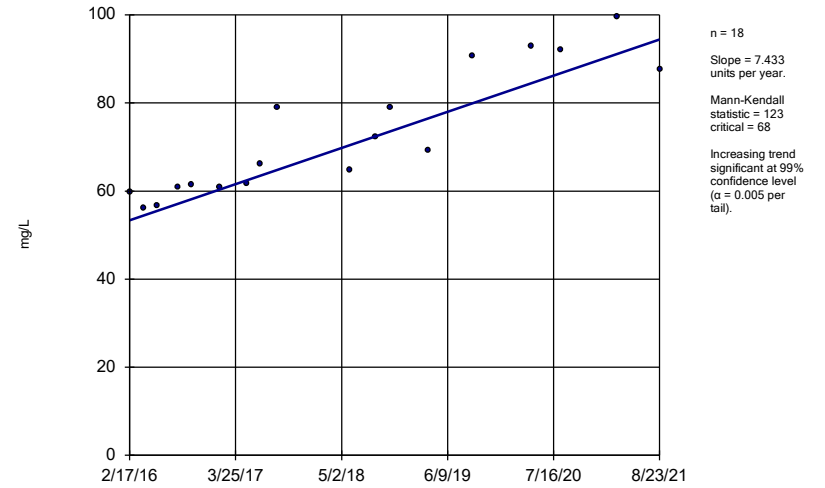
GC-AP-MW-31



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

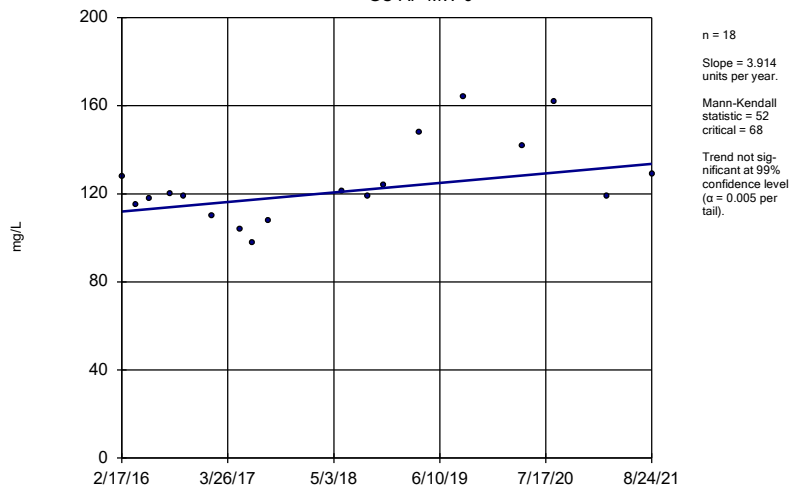
GC-AP-MW-5



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

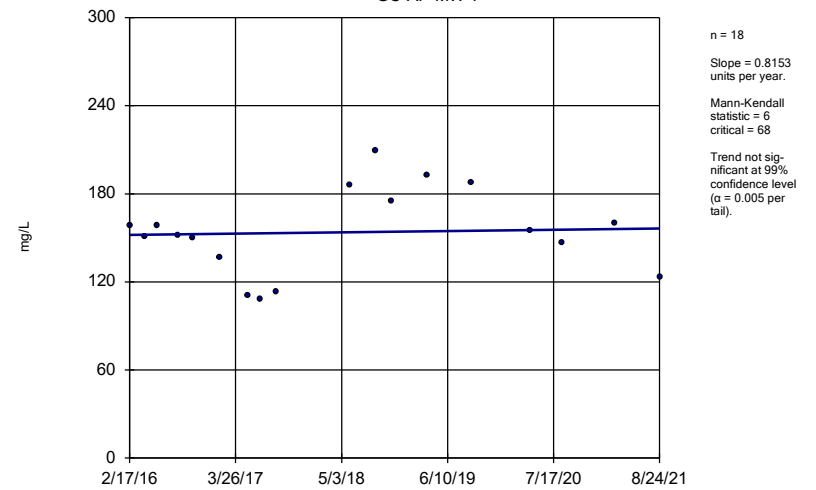
GC-AP-MW-6



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

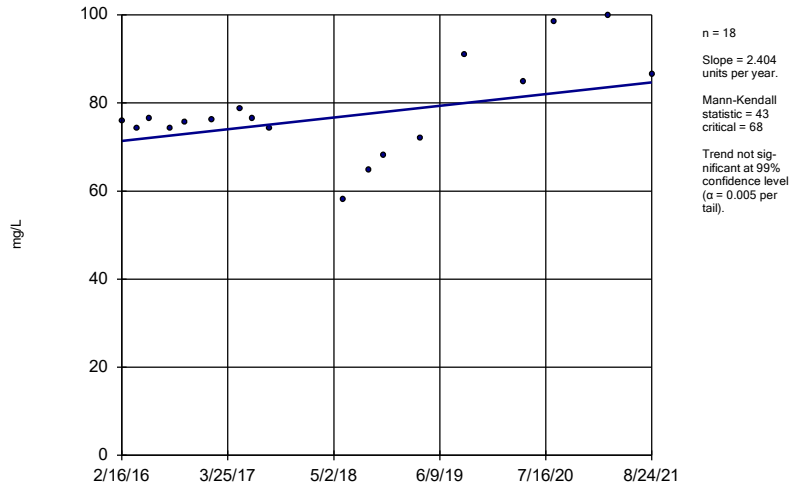
GC-AP-MW-7



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

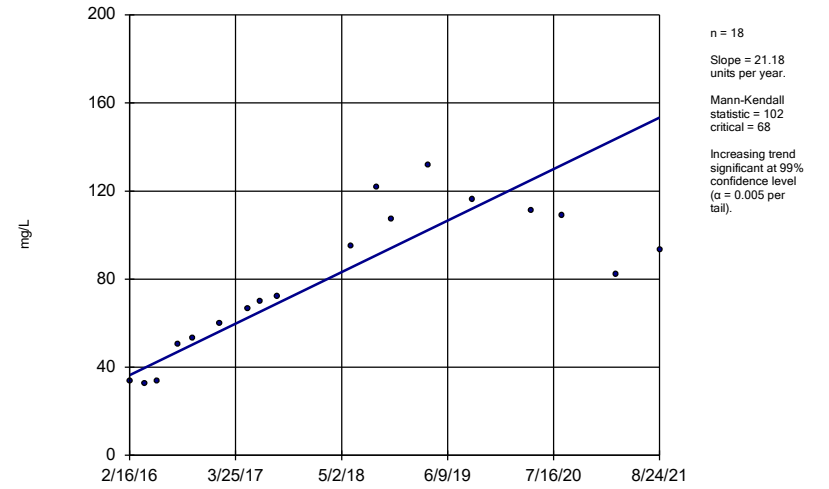
GC-AP-MW-8



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

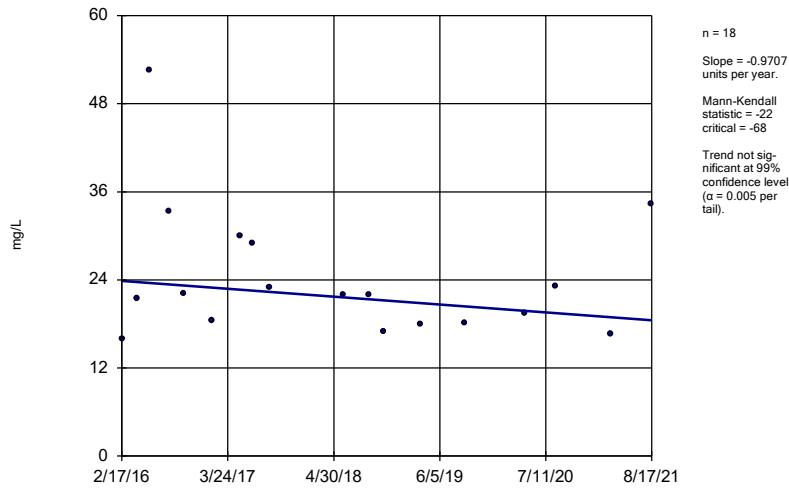
GC-AP-MW-9



Constituent: Calcium Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

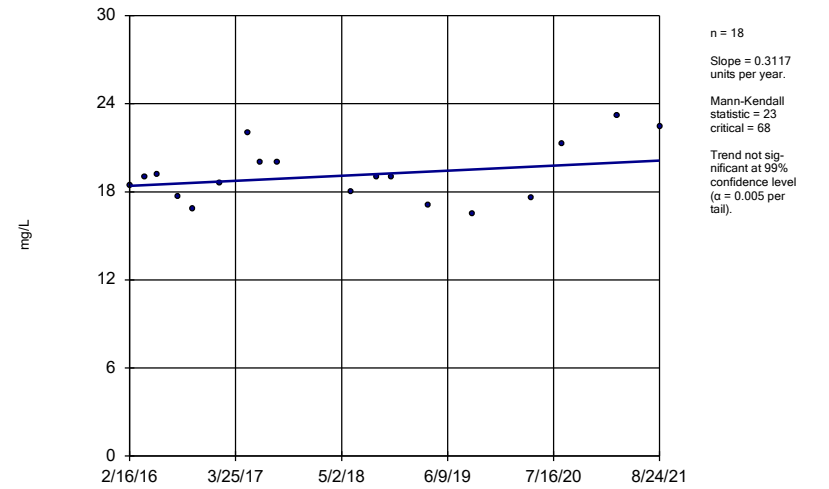
GC-AP-MW-1



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

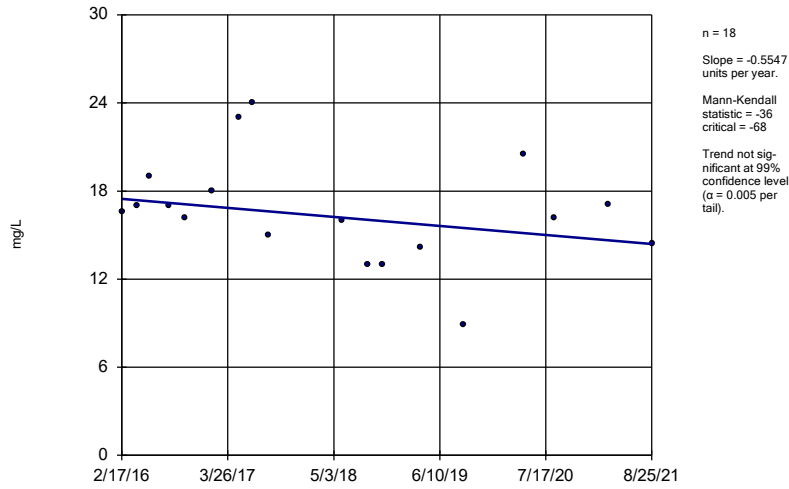
GC-AP-MW-10



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

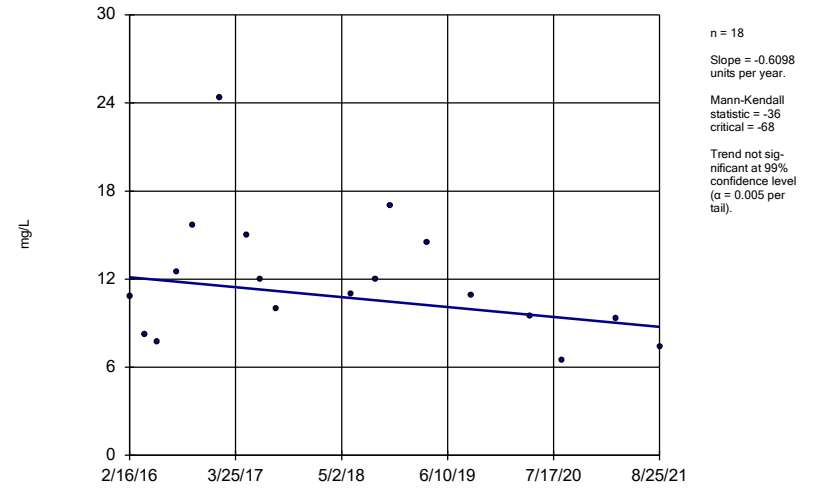
GC-AP-MW-11



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

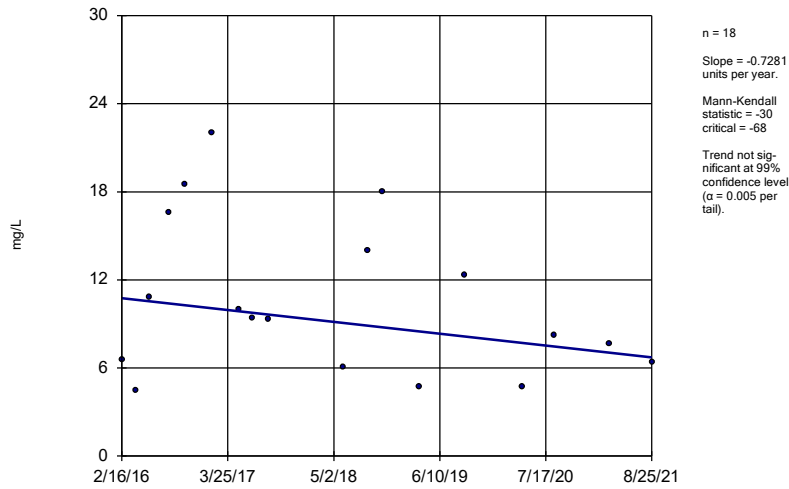
GC-AP-MW-12



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

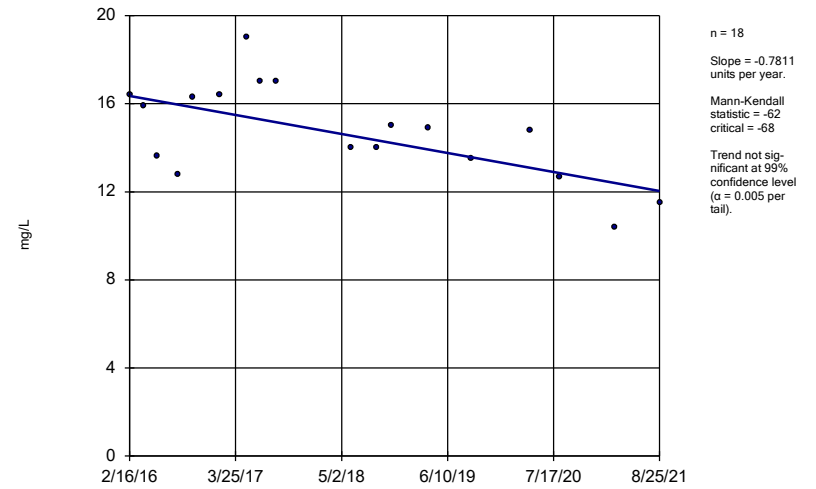
GC-AP-MW-13



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

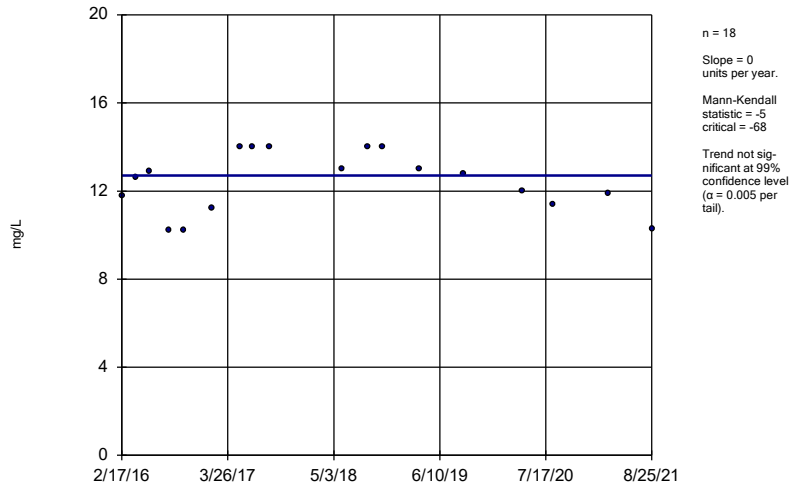
GC-AP-MW-14



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

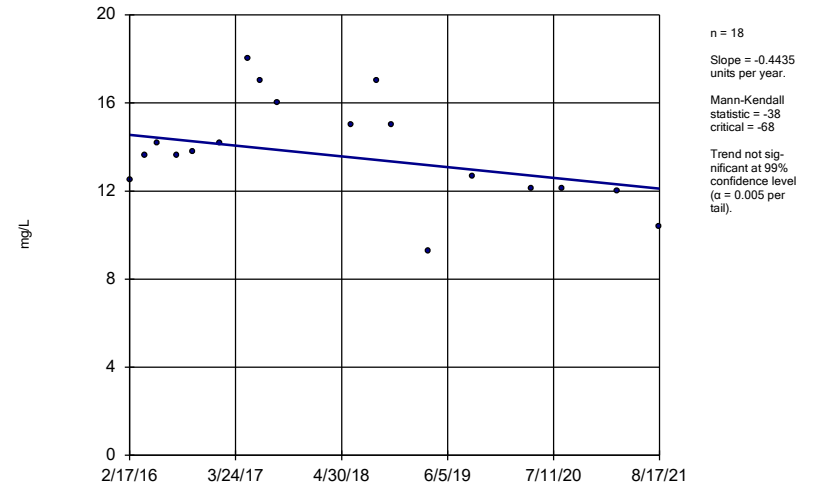
GC-AP-MW-15



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

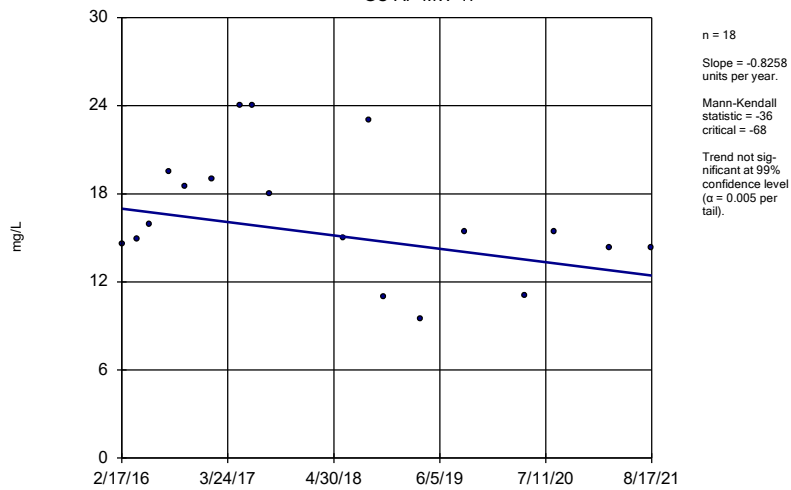
GC-AP-MW-16



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

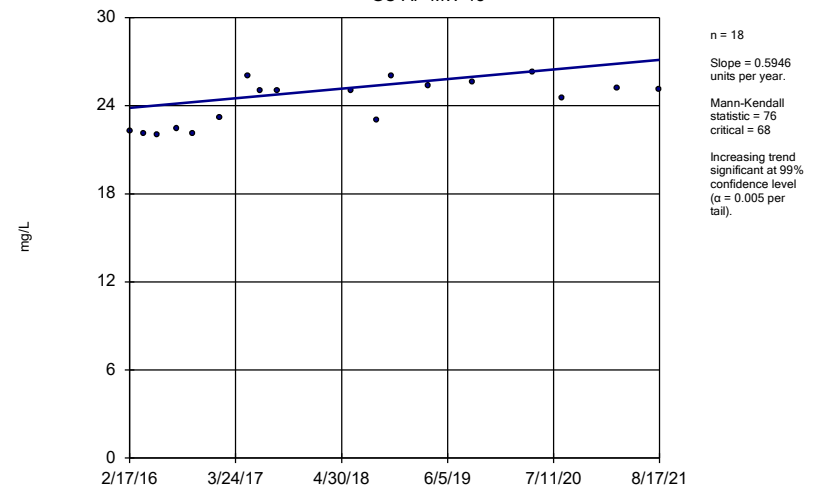
GC-AP-MW-17



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

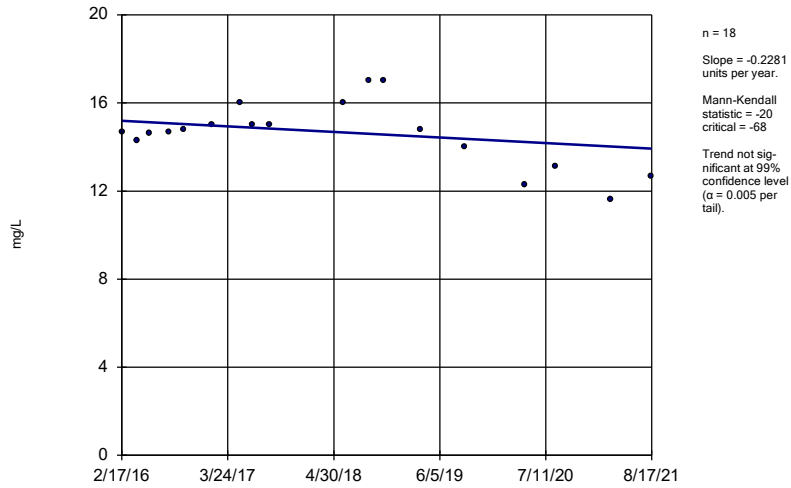
GC-AP-MW-18



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

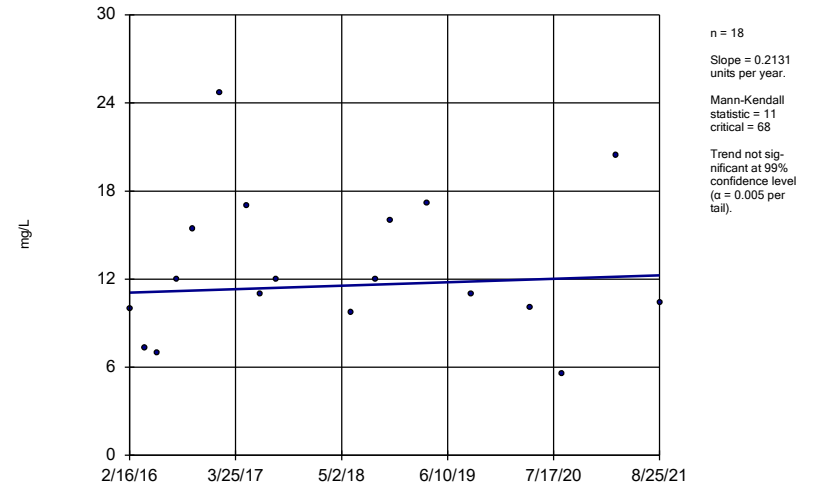
GC-AP-MW-2



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

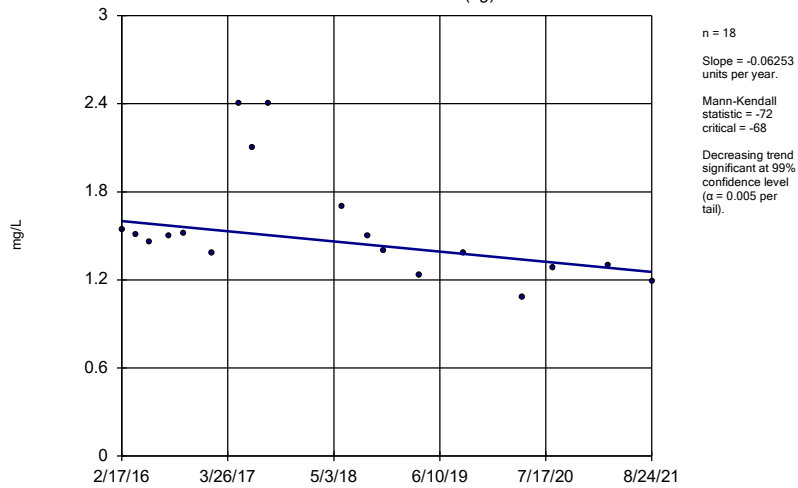
GC-AP-MW-21



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

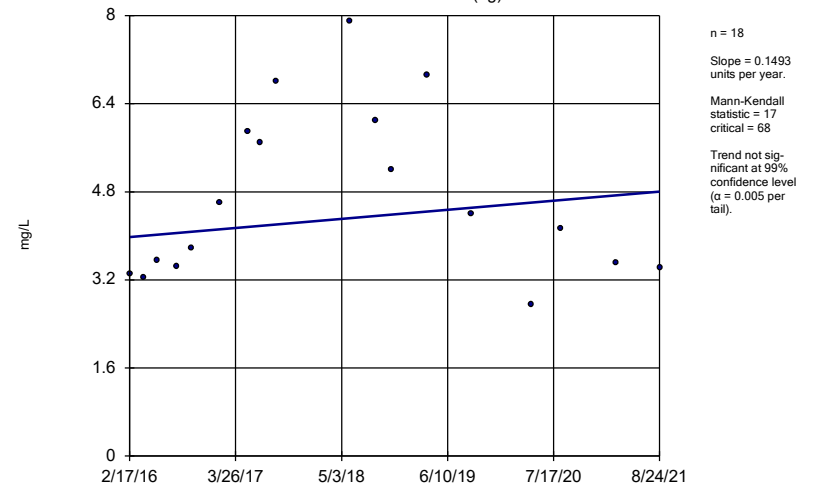
GC-AP-MW-23 (bg)



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

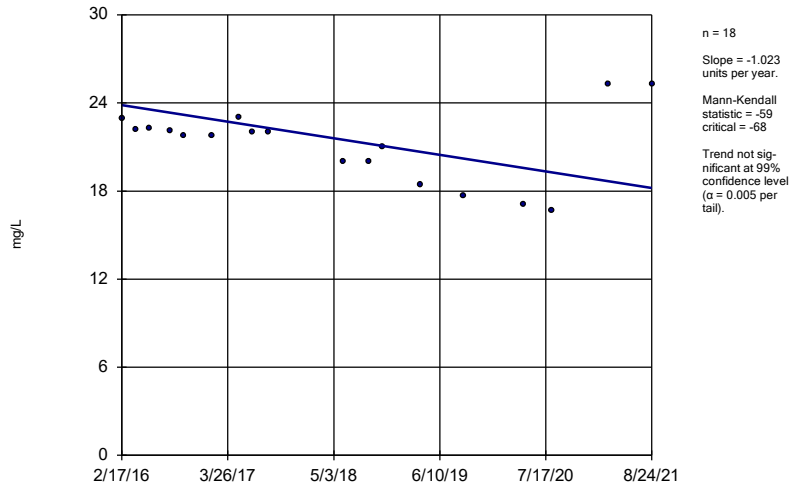
GC-AP-MW-24 (bg)



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

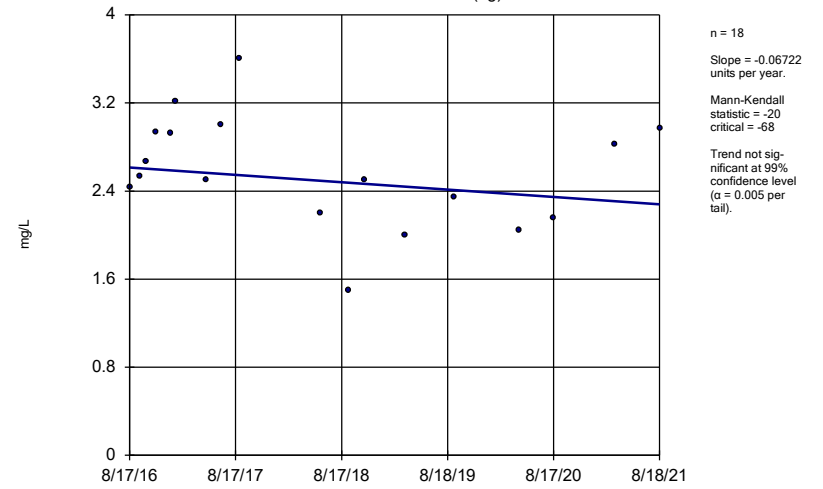
GC-AP-MW-25



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

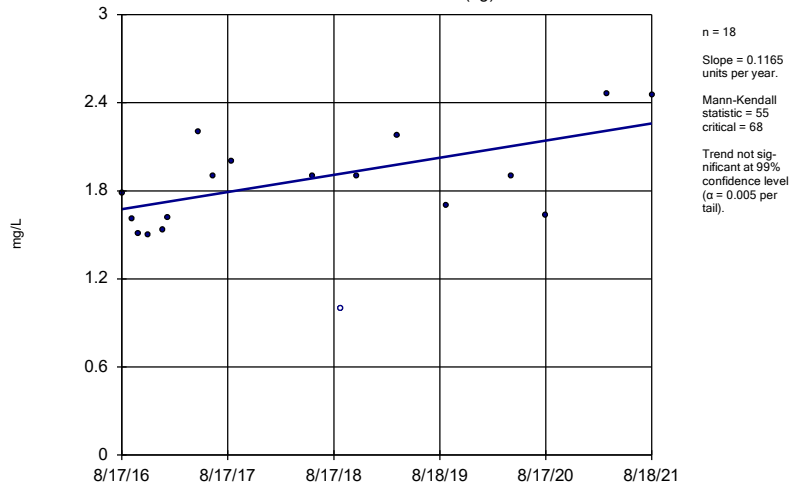
GC-AP-MW-26 (bg)



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

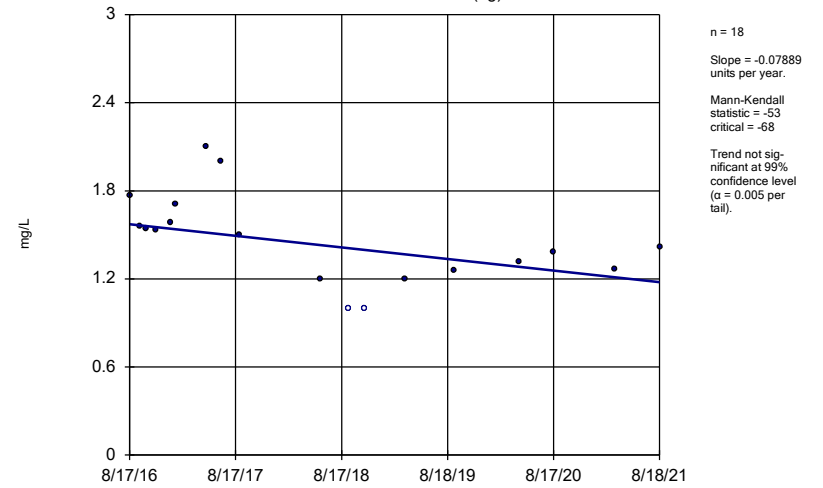
GC-AP-MW-27 (bg)



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

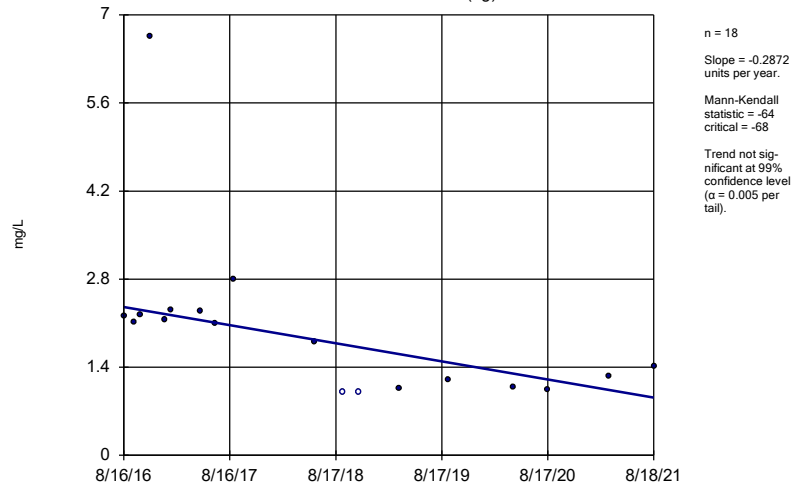
Sen's Slope Estimator

GC-AP-MW-28 (bg)



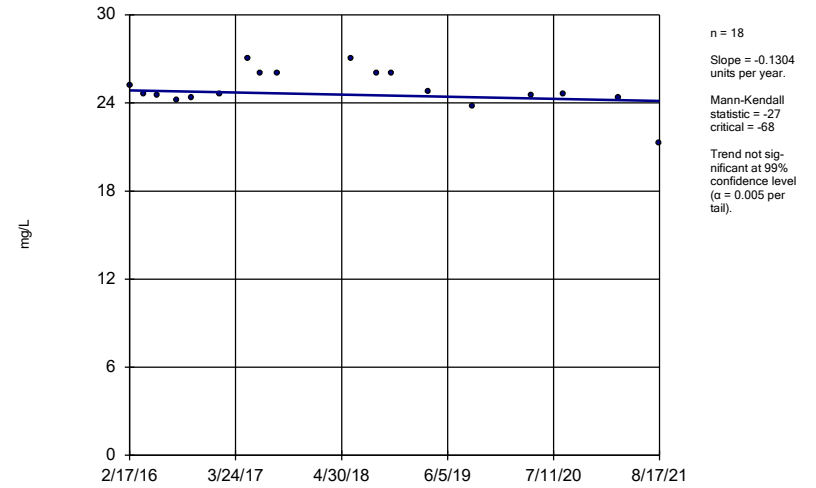
Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
 GC-AP-MW-29 (bg)



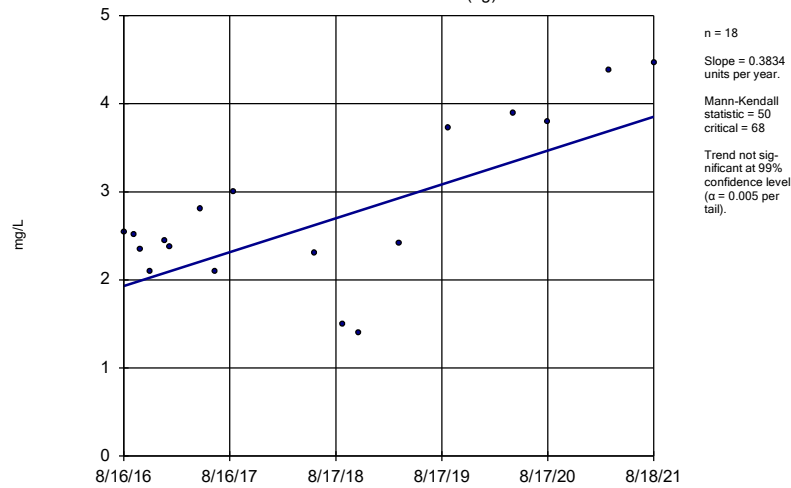
Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
 GC-AP-MW-3



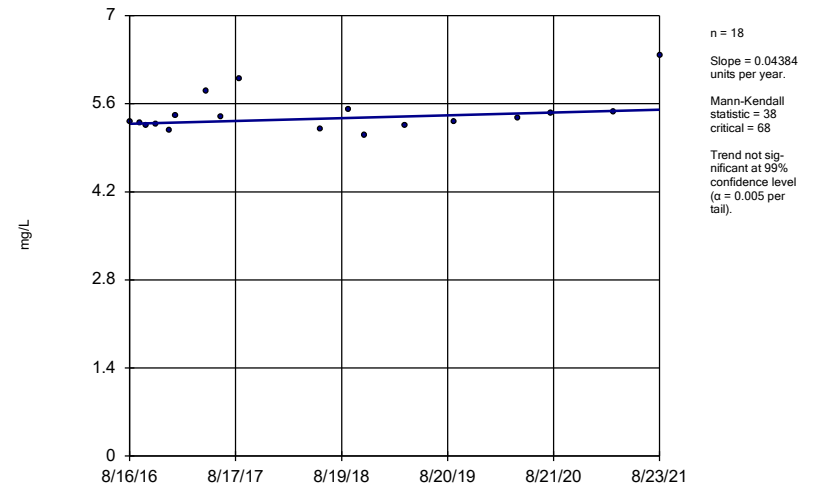
Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
 GC-AP-MW-30 (bg)



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

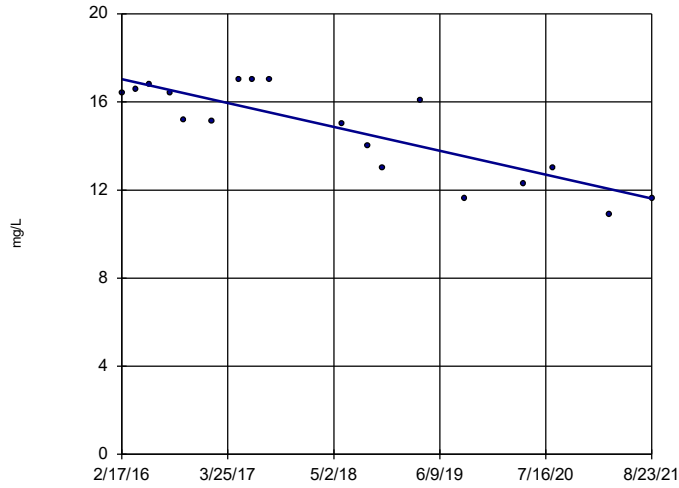
Sen's Slope Estimator
 GC-AP-MW-31



Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-5

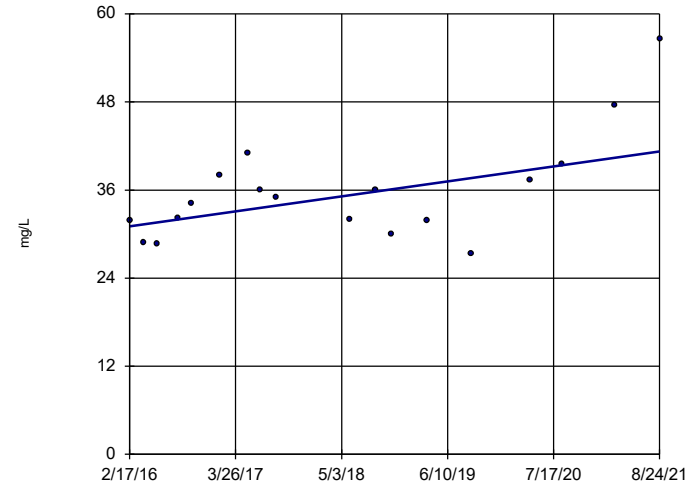


n = 18
 Slope = -0.9813
 units per year.
 Mann-Kendall
 statistic = -87
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/18/2021 6:12 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-6

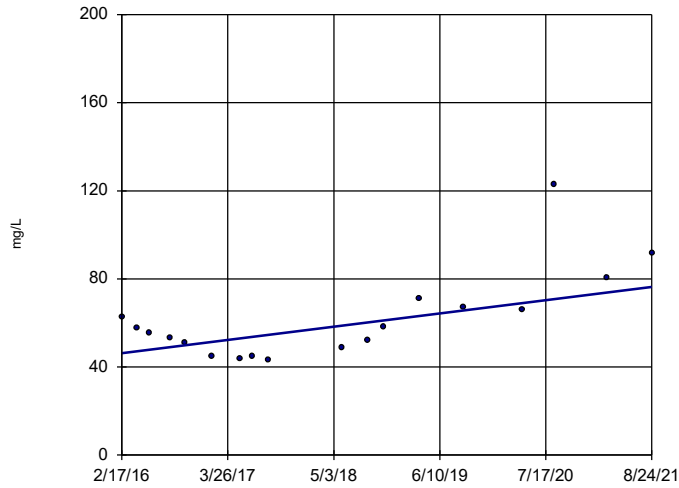


n = 18
 Slope = 1.846
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-7

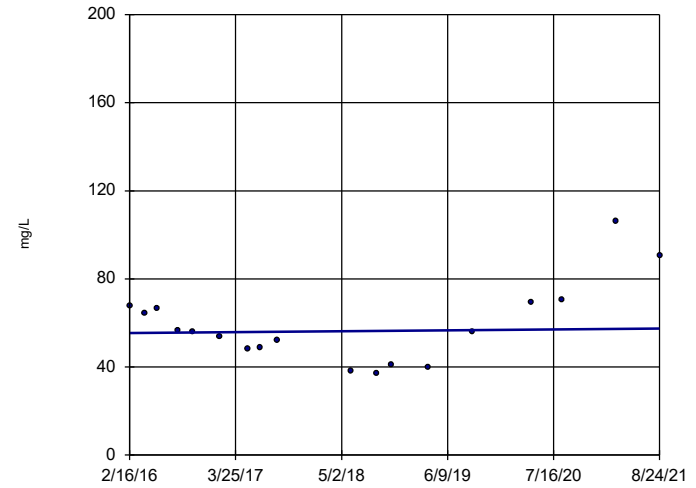


n = 18
 Slope = 5.463
 units per year.
 Mann-Kendall
 statistic = 55
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-8

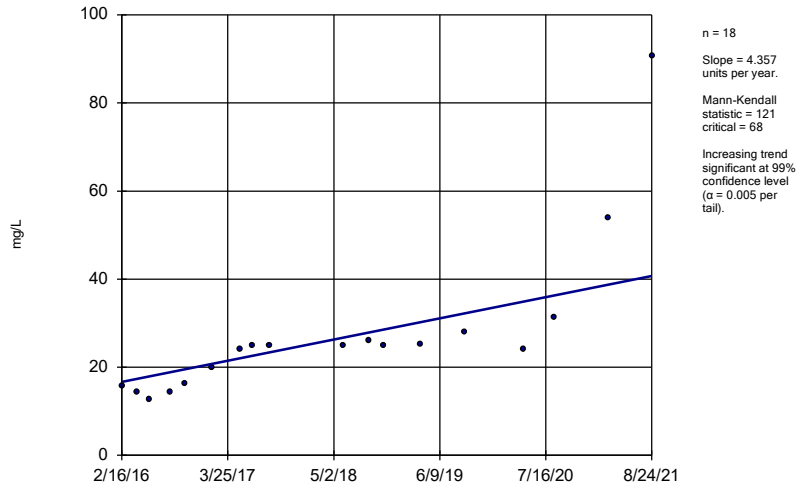


n = 18
 Slope = 0.3827
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

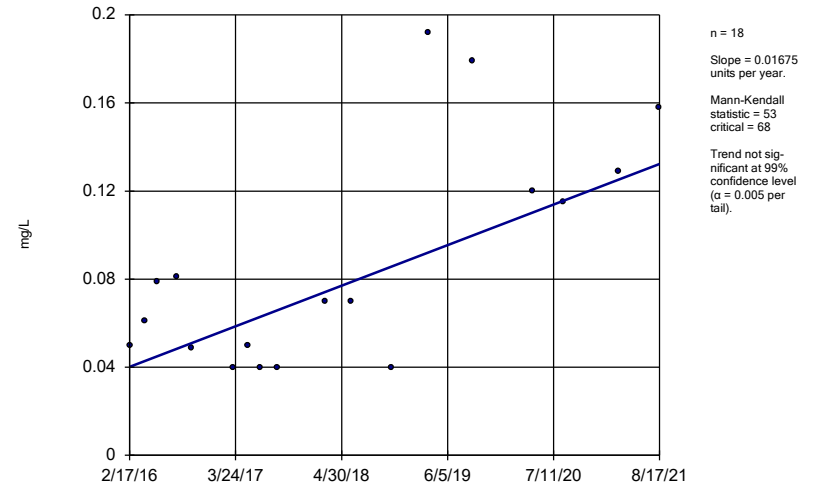
GC-AP-MW-9



Constituent: Chloride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

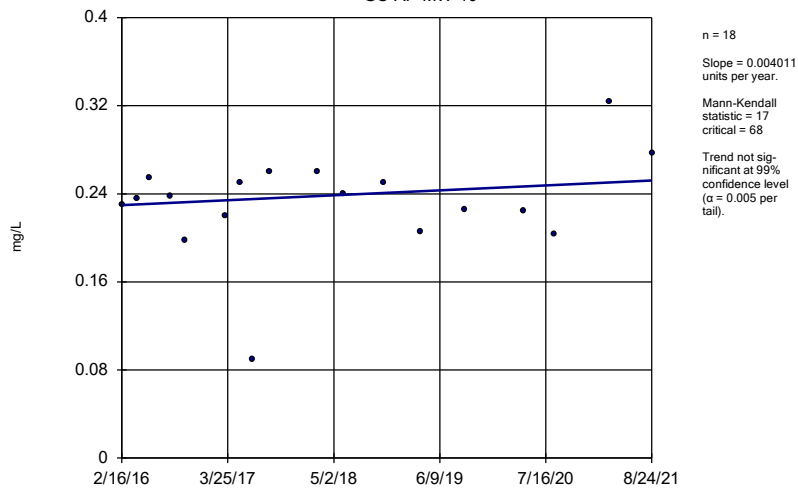
GC-AP-MW-1



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

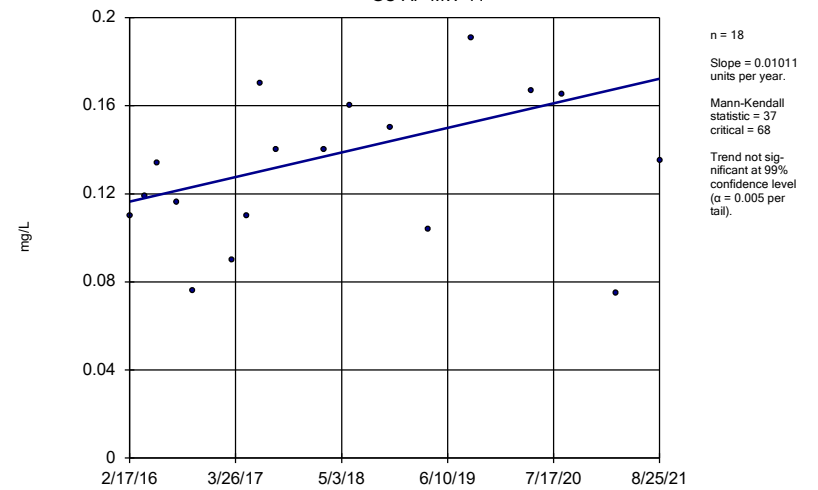
GC-AP-MW-10



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

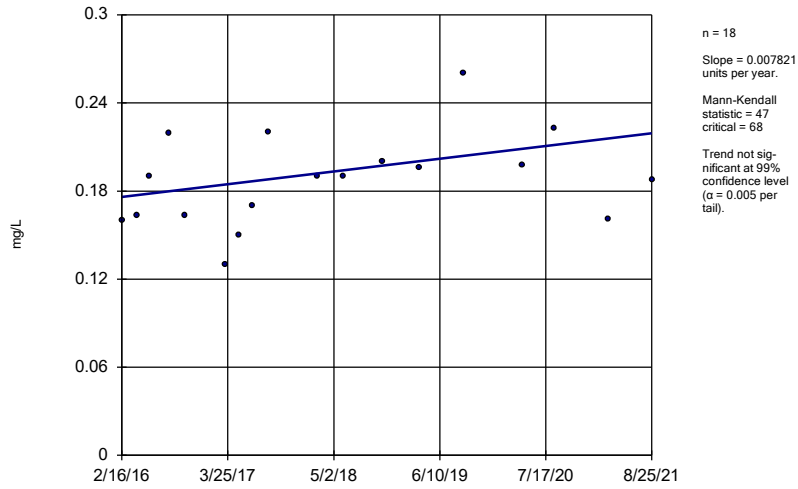
GC-AP-MW-11



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

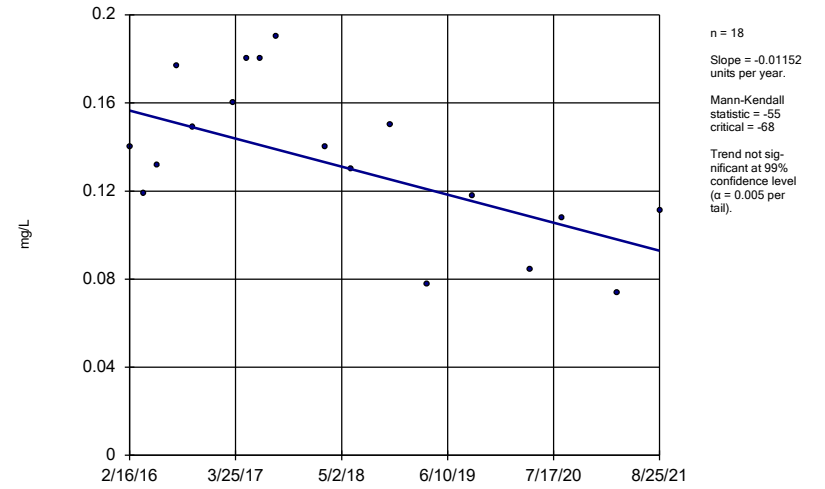
GC-AP-MW-12



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

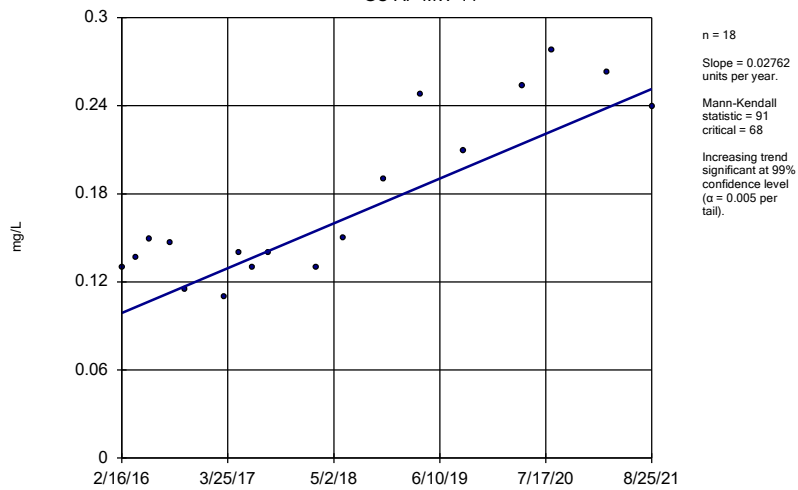
GC-AP-MW-13



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

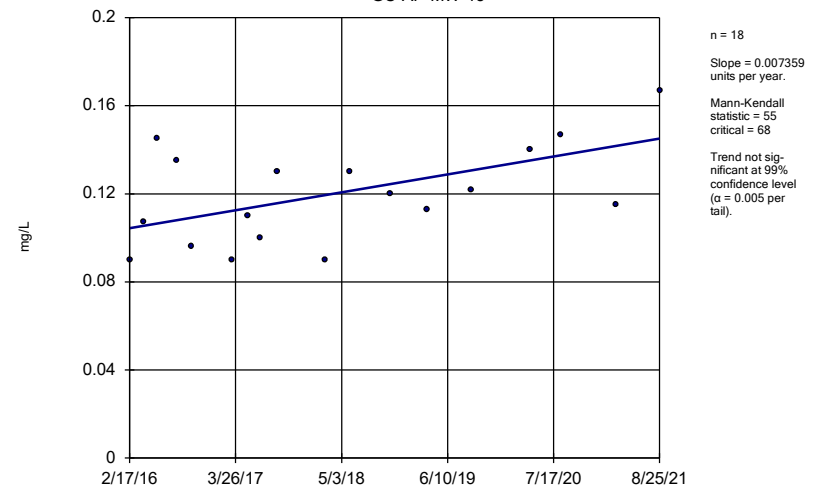
GC-AP-MW-14



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

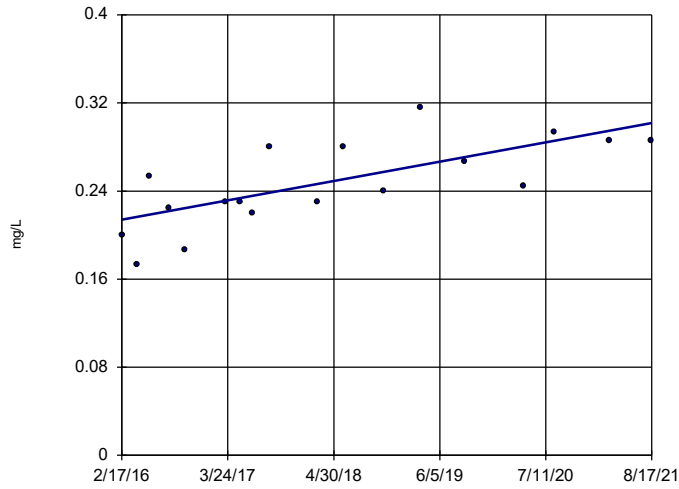
GC-AP-MW-15



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-16

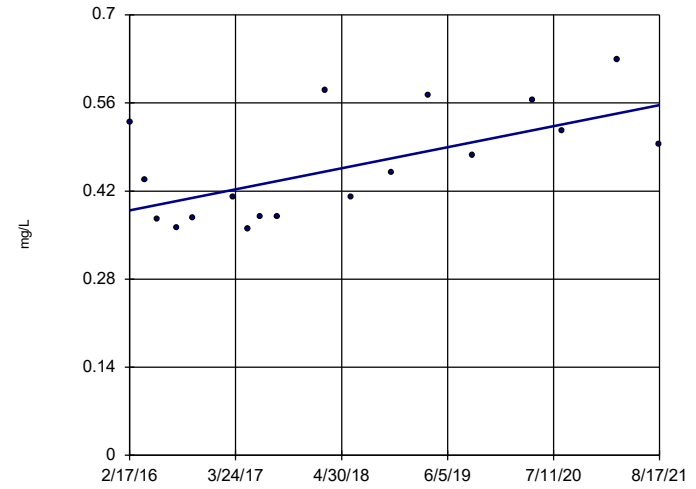


n = 18
 Slope = 0.01593
 units per year.
 Mann-Kendall
 statistic = 90
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-17

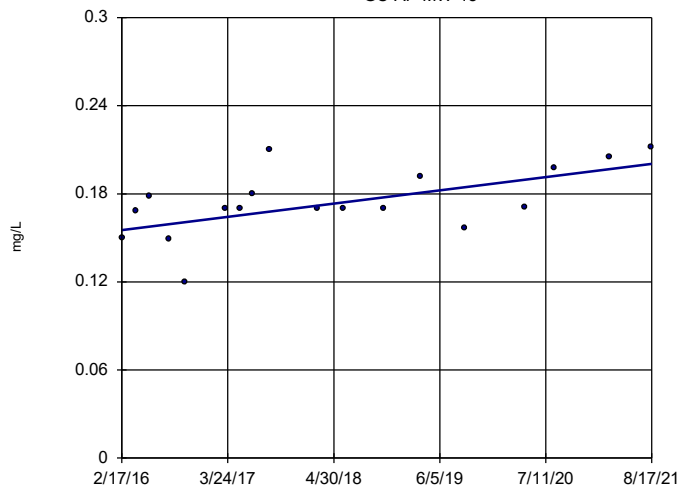


n = 18
 Slope = 0.03042
 units per year.
 Mann-Kendall
 statistic = 65
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-18

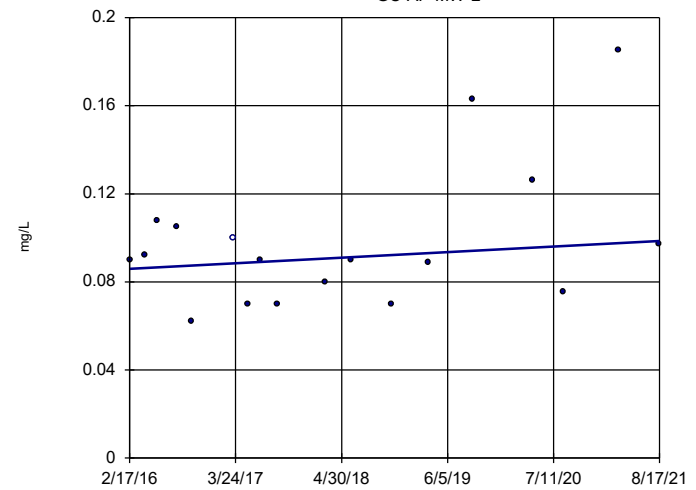


n = 18
 Slope = 0.008196
 units per year.
 Mann-Kendall
 statistic = 73
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-2

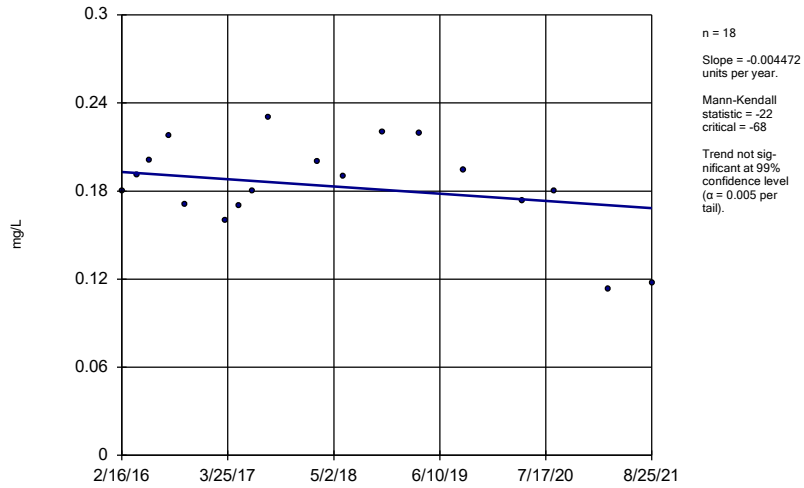


n = 18
 Slope = 0.002309
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

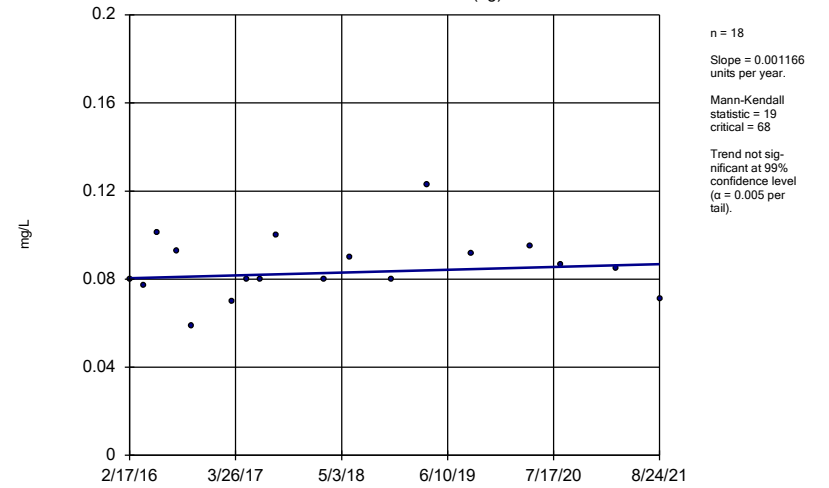
GC-AP-MW-21



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

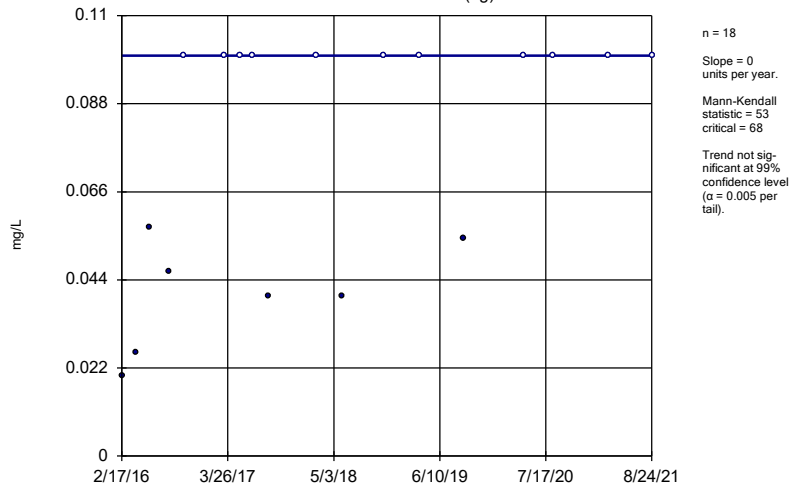
GC-AP-MW-23 (bg)



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

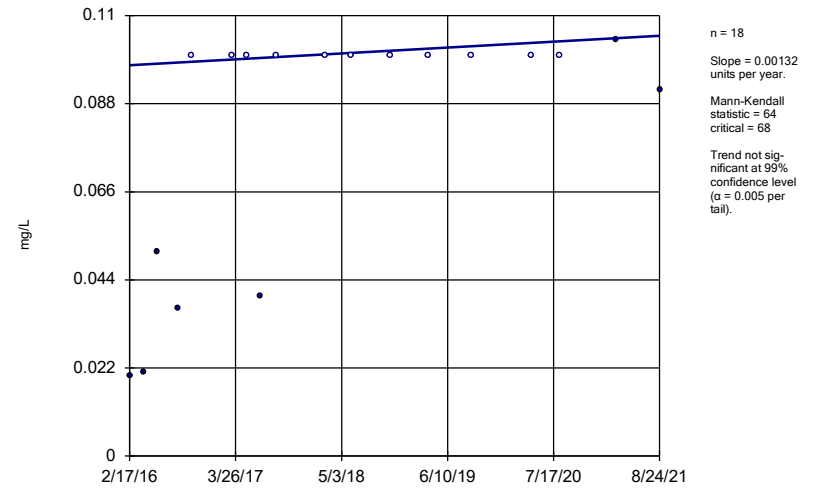
GC-AP-MW-24 (bg)



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

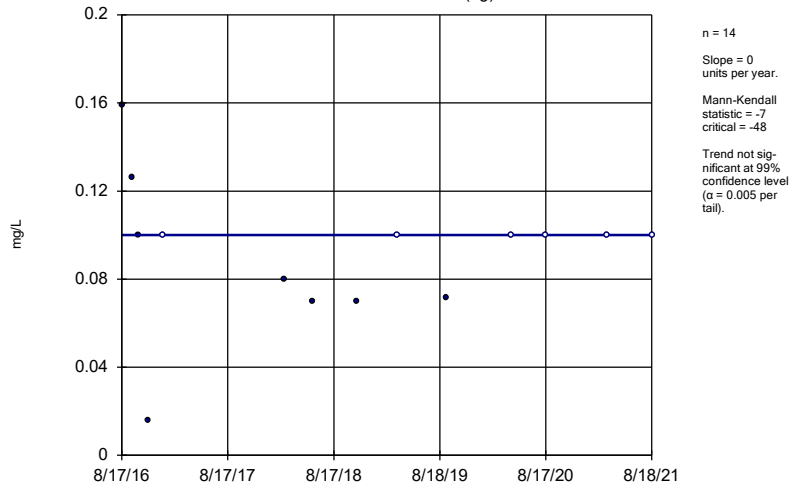
GC-AP-MW-25



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

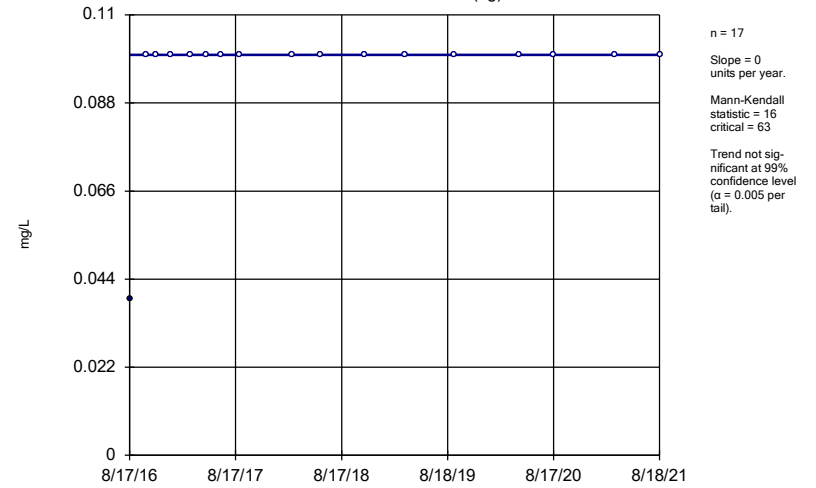
GC-AP-MW-26 (bg)



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

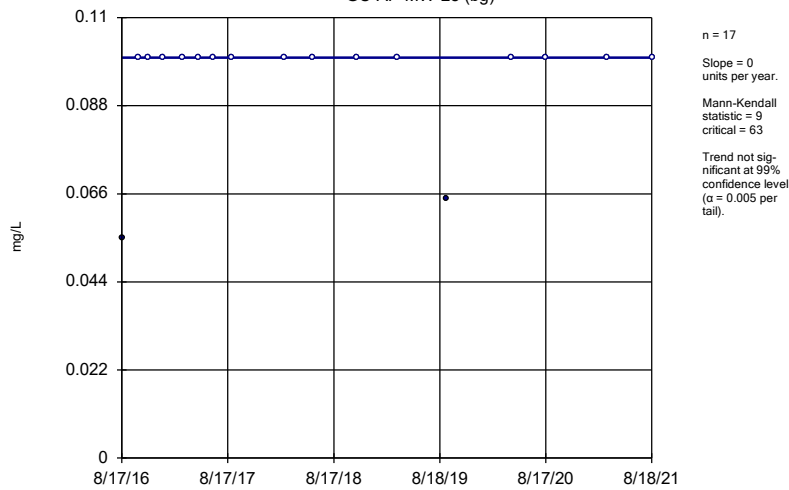
GC-AP-MW-27 (bg)



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

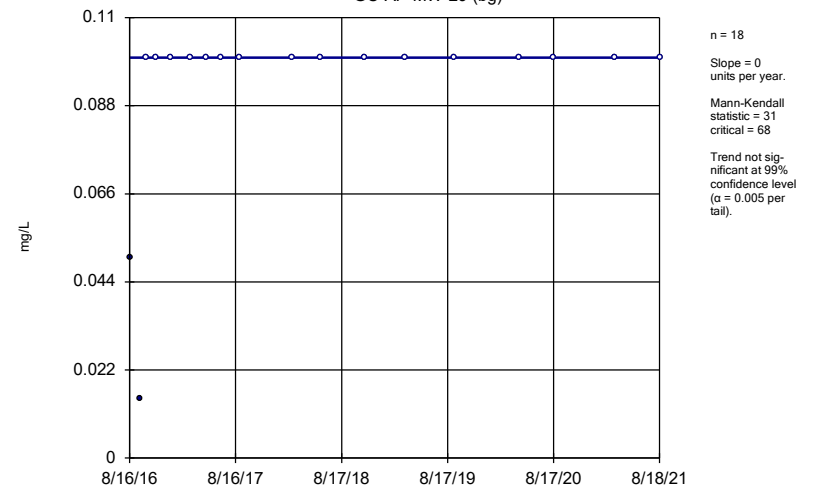
GC-AP-MW-28 (bg)



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

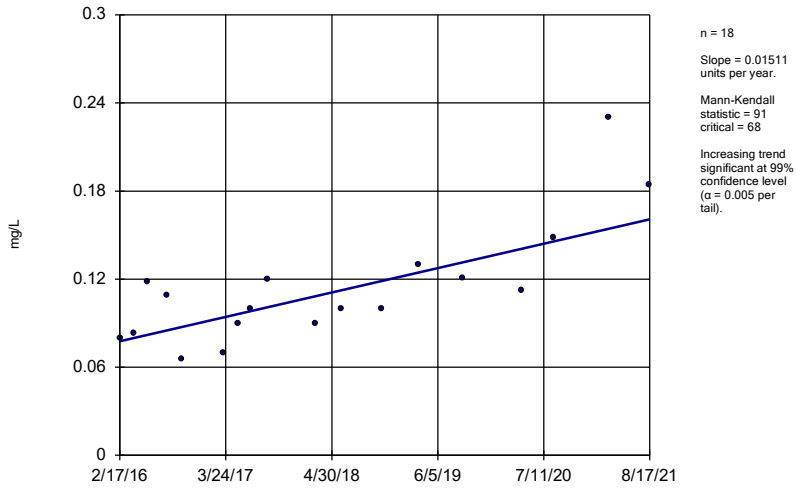
GC-AP-MW-29 (bg)



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-3

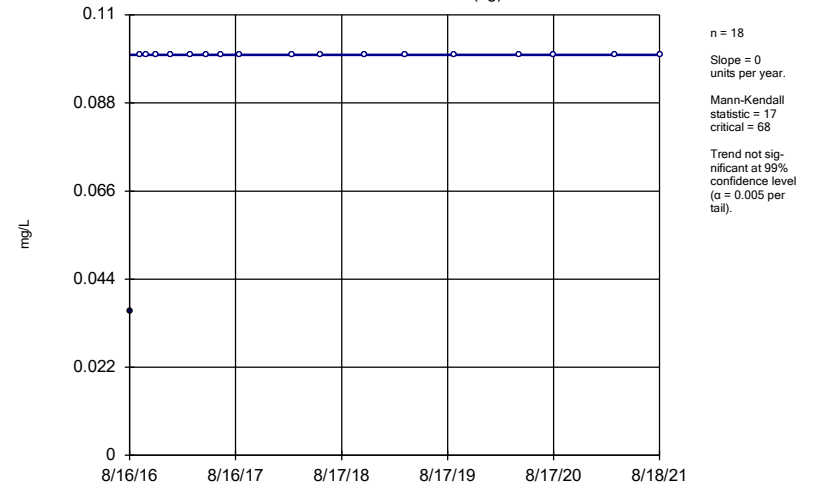


Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)

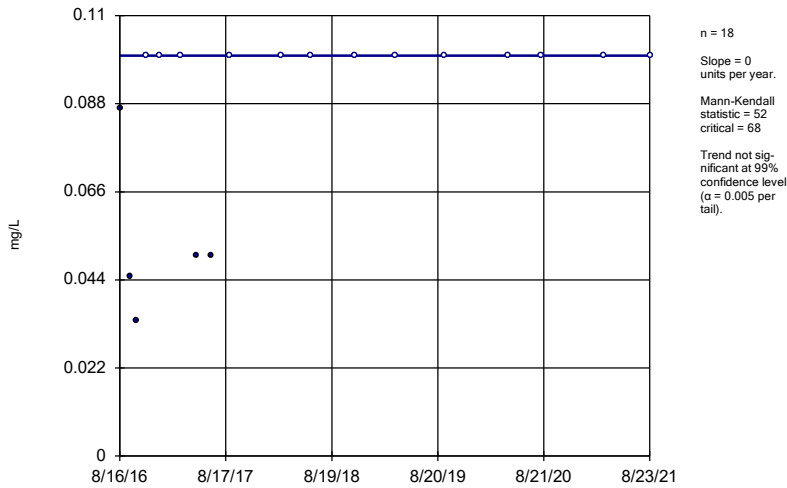


Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

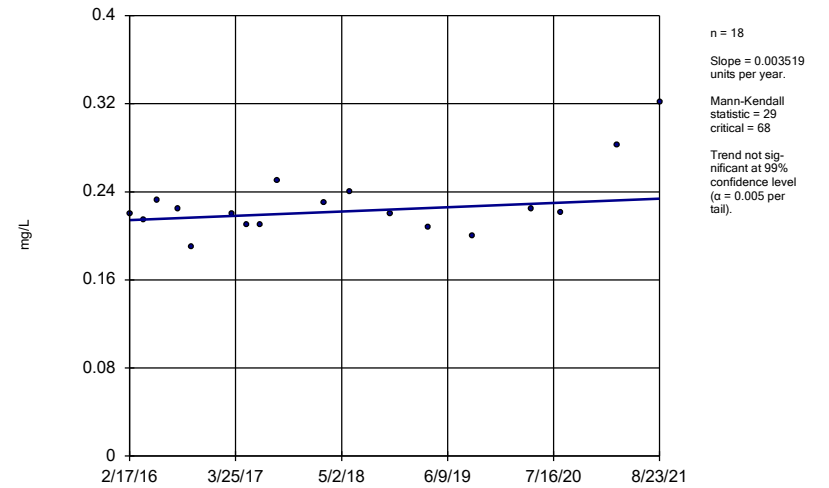
GC-AP-MW-31



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

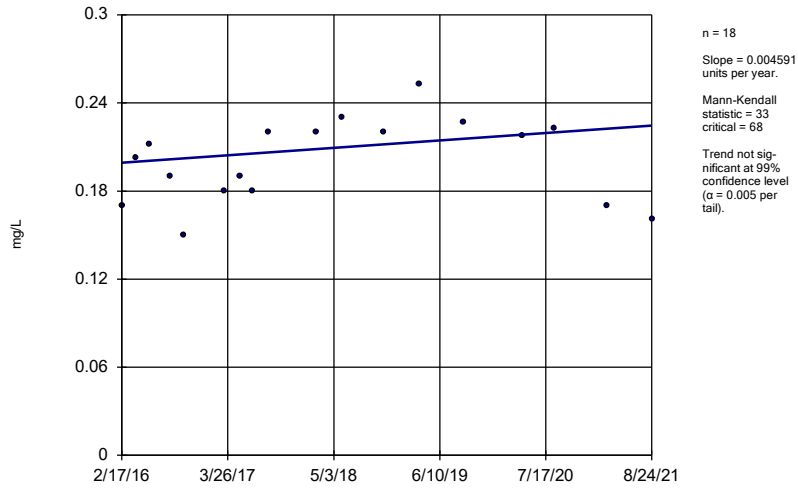
GC-AP-MW-5



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

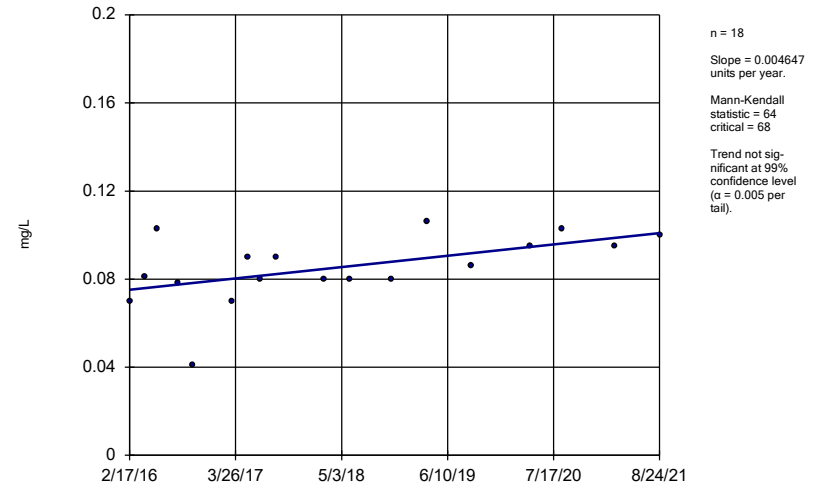
GC-AP-MW-6



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

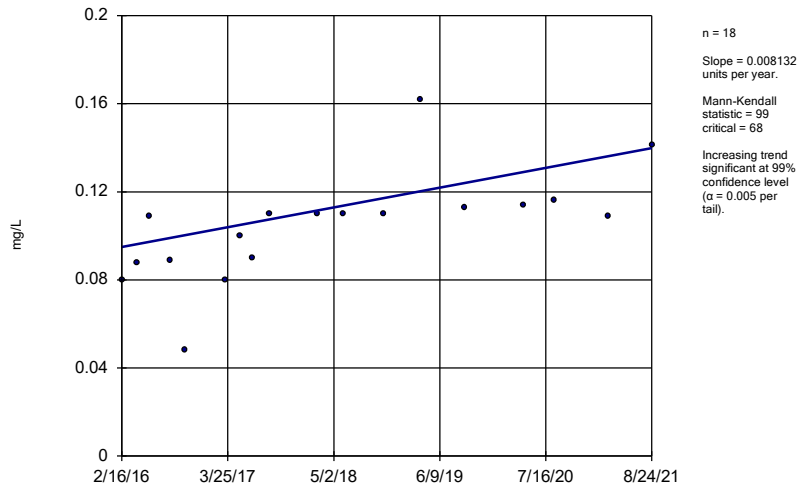
GC-AP-MW-7



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

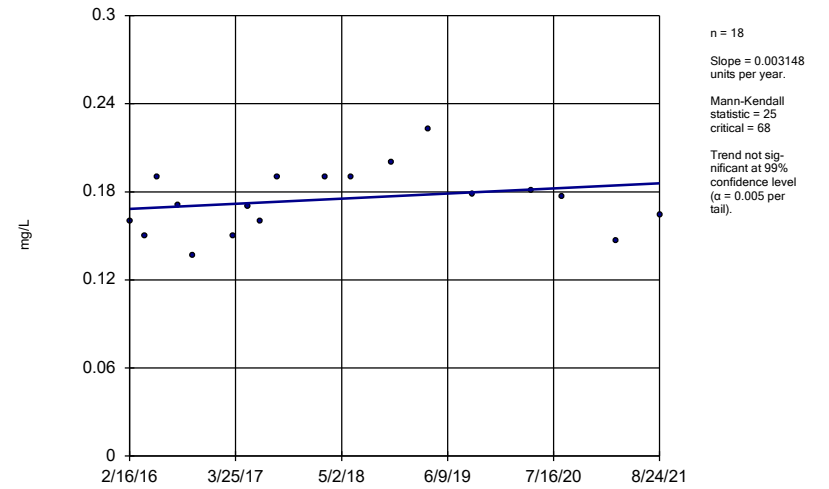
GC-AP-MW-8



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

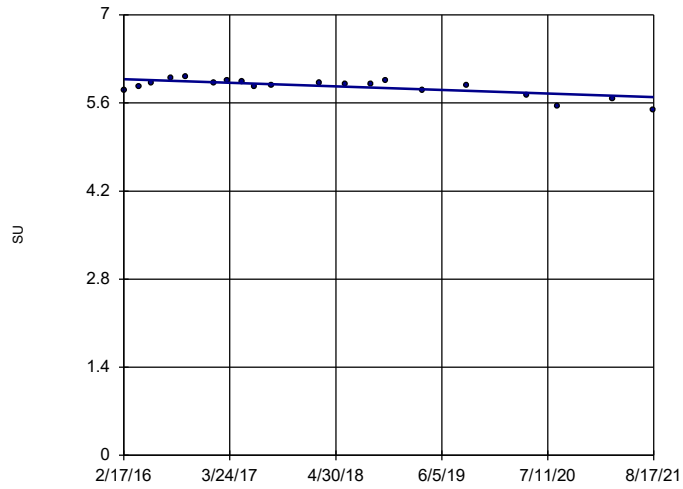
GC-AP-MW-9



Constituent: Fluoride Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

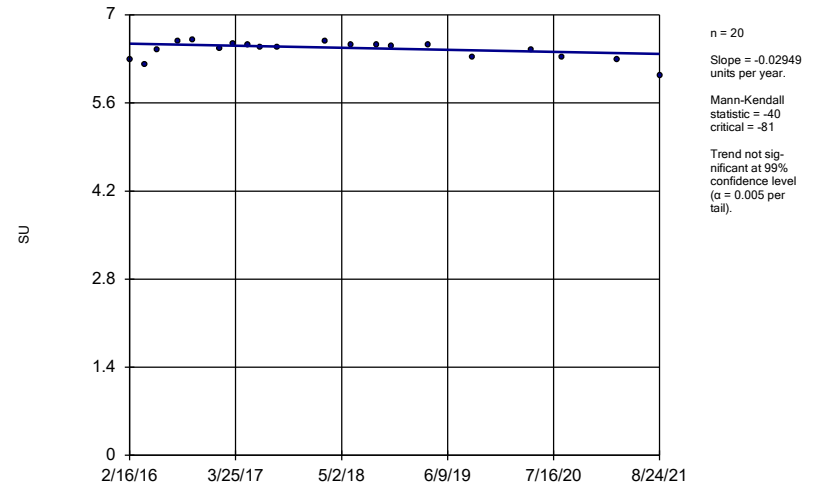
GC-AP-MW-1



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

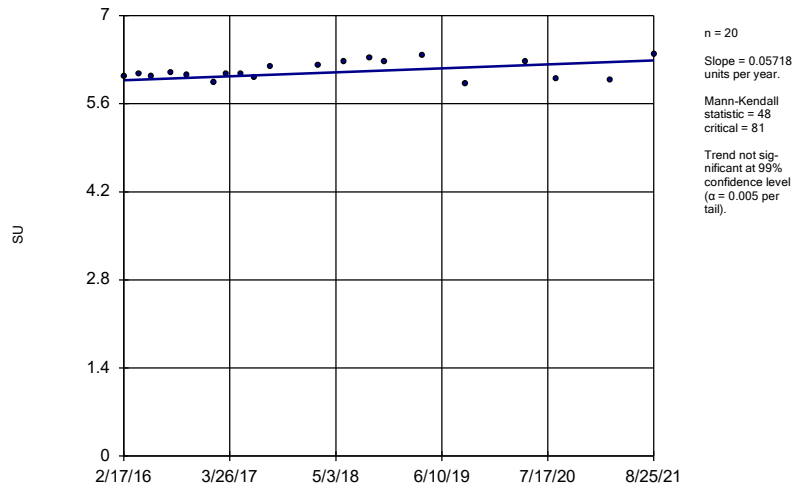
GC-AP-MW-10



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

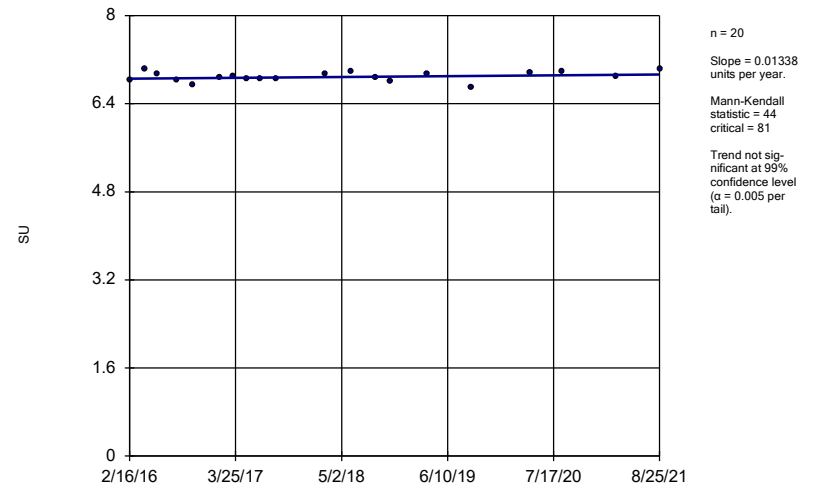
GC-AP-MW-11



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

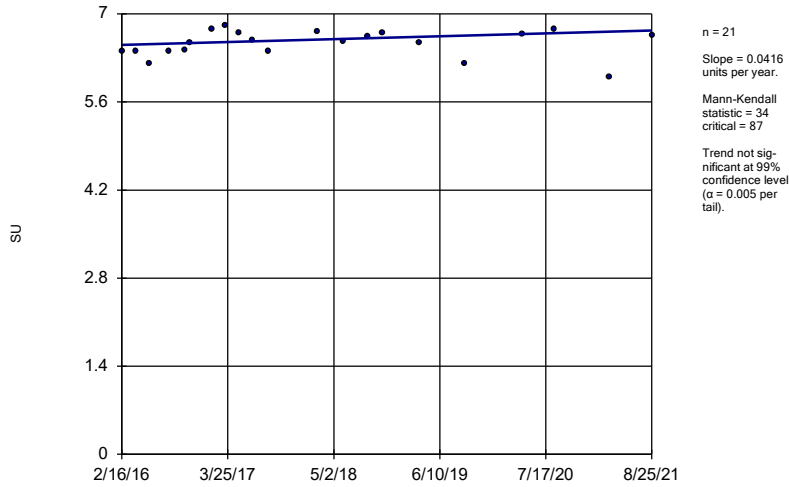
GC-AP-MW-12



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

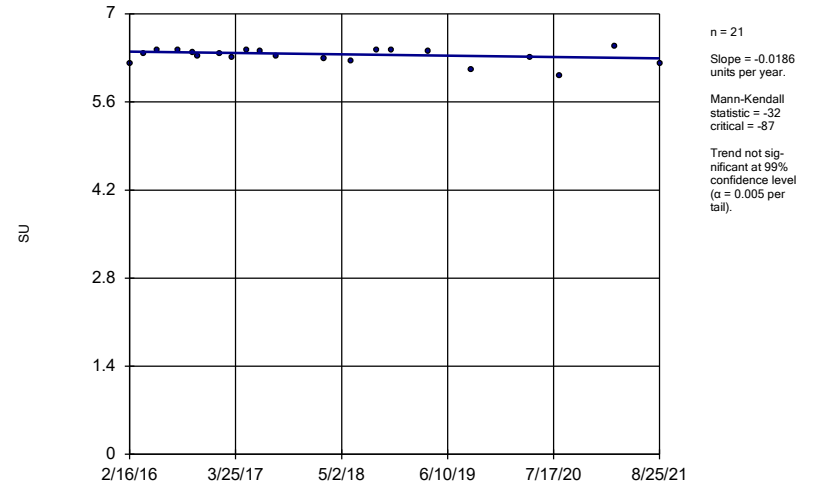
GC-AP-MW-13



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

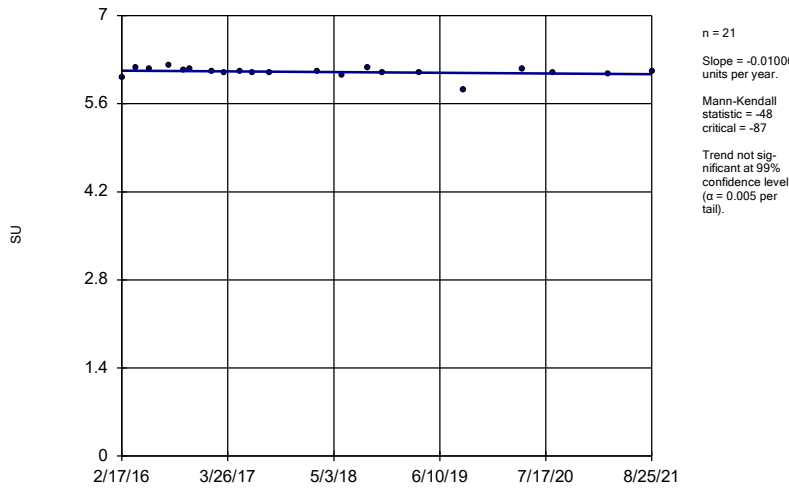
GC-AP-MW-14



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

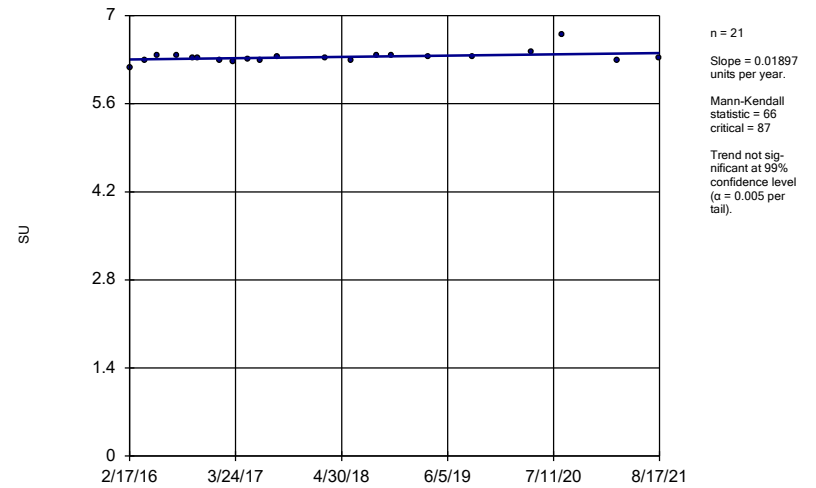
GC-AP-MW-15



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

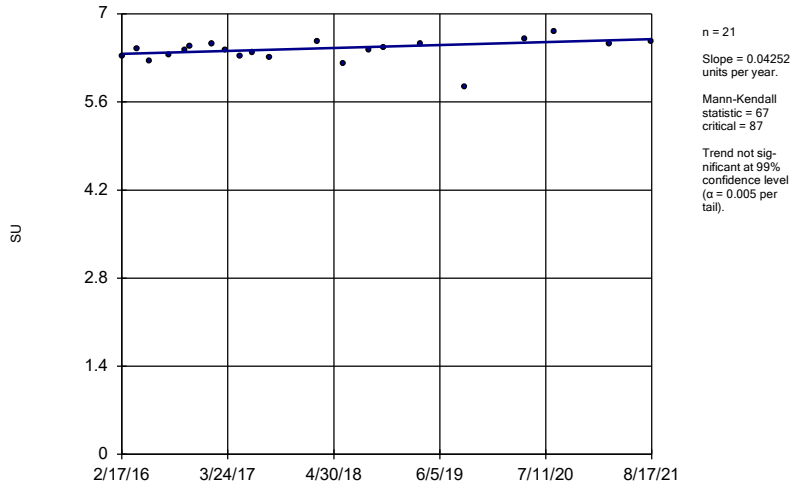
GC-AP-MW-16



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

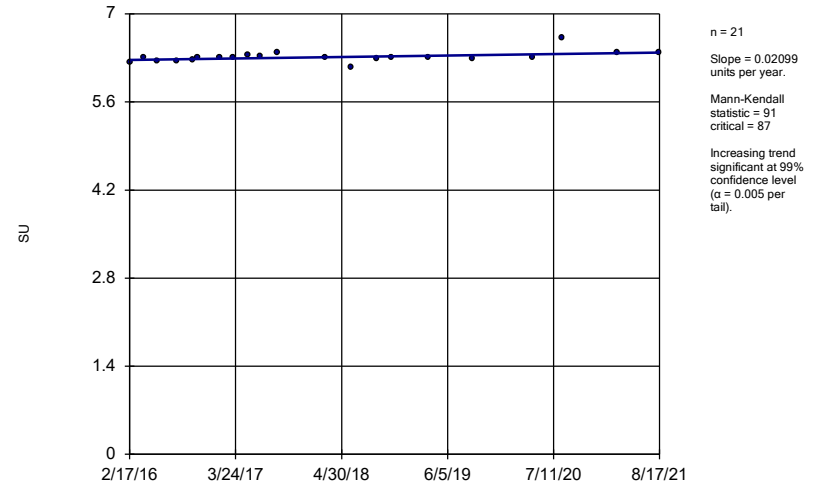
GC-AP-MW-17



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

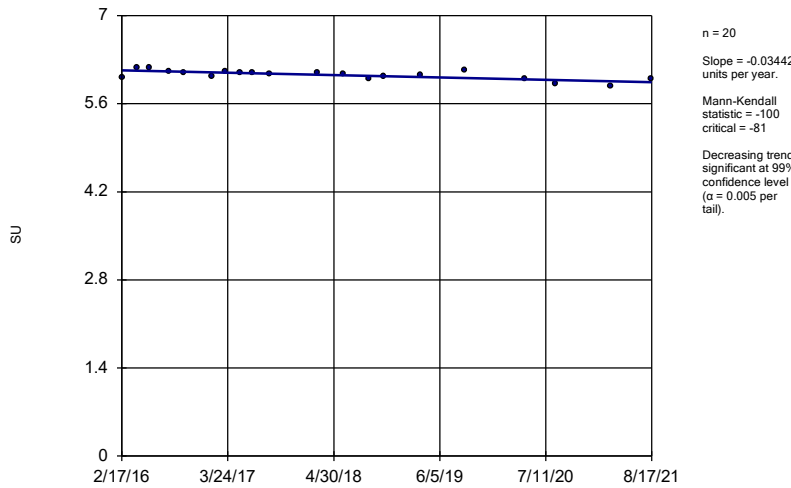
GC-AP-MW-18



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

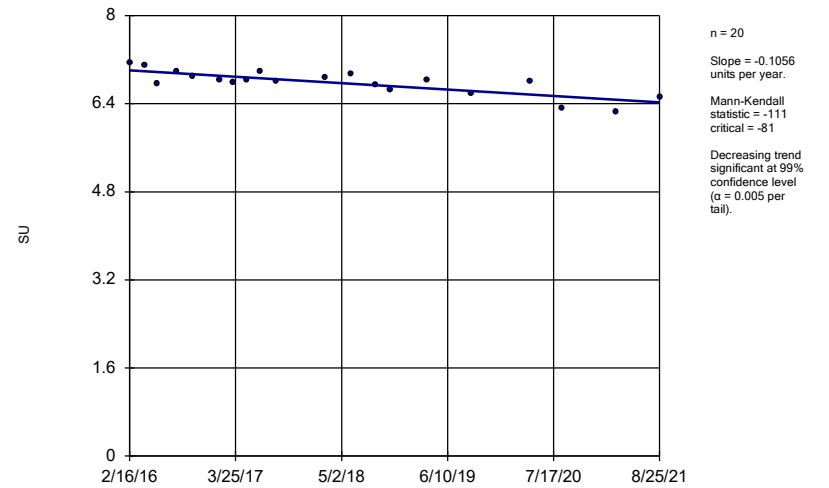
GC-AP-MW-2



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

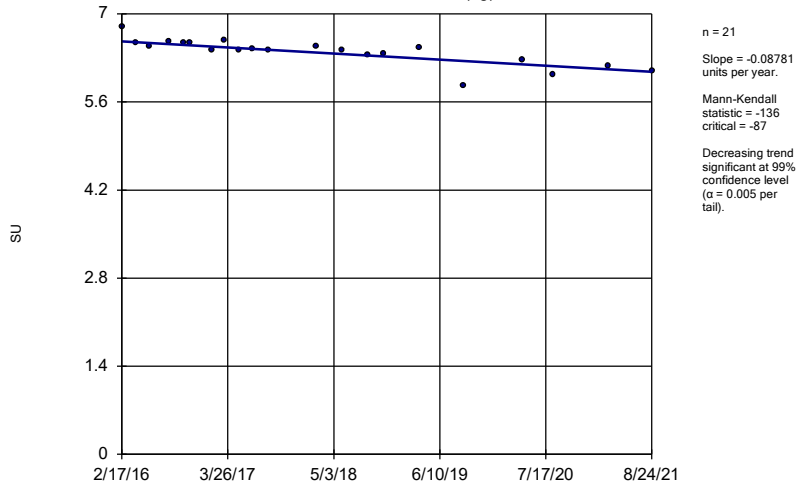
GC-AP-MW-21



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

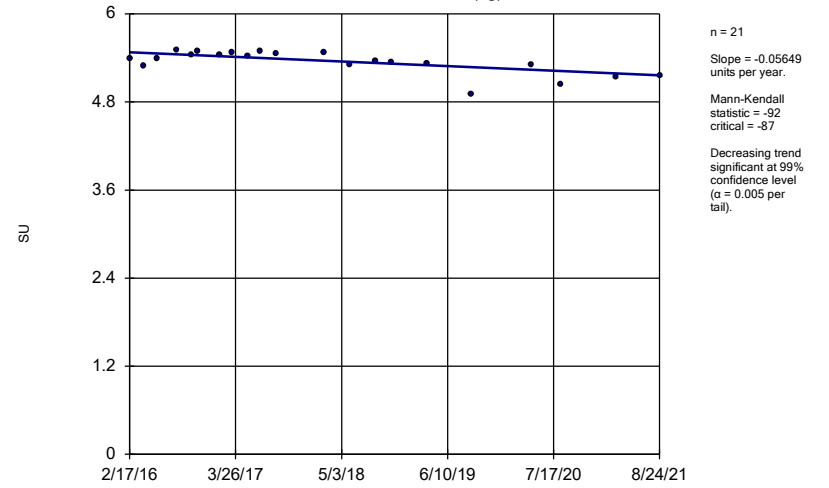
GC-AP-MW-23 (bg)



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

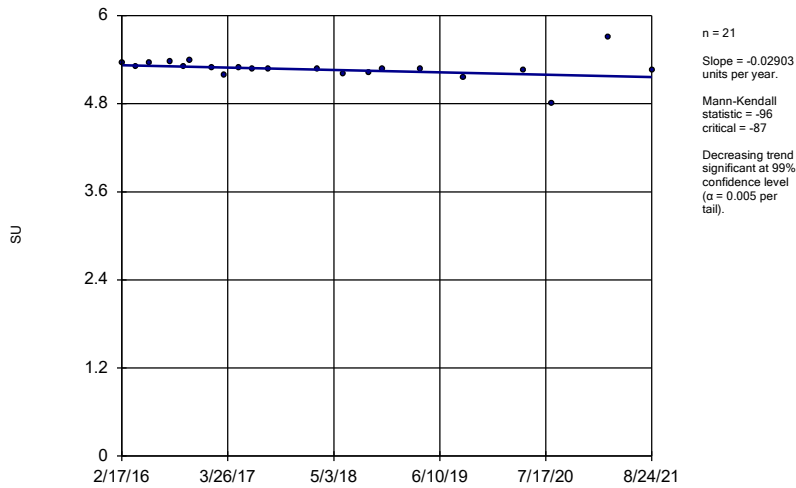
GC-AP-MW-24 (bg)



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

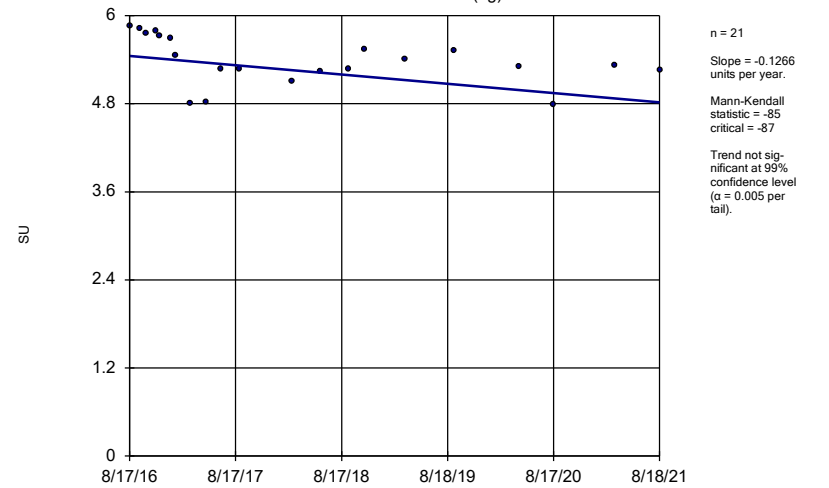
GC-AP-MW-25



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

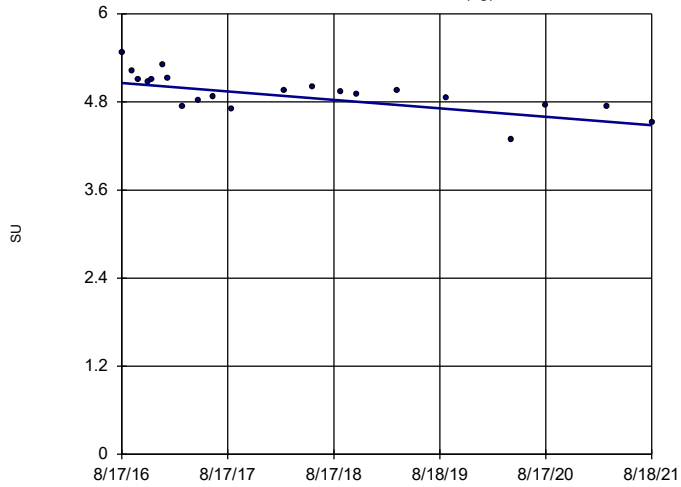
GC-AP-MW-26 (bg)



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

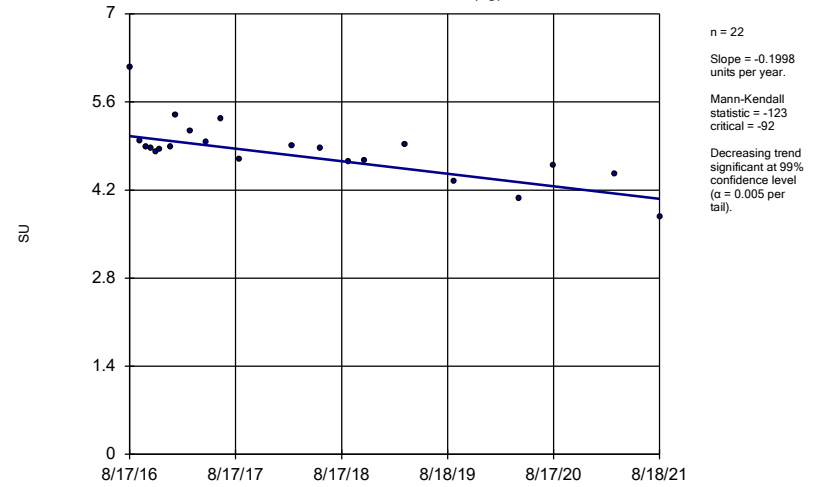
GC-AP-MW-27 (bg)



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

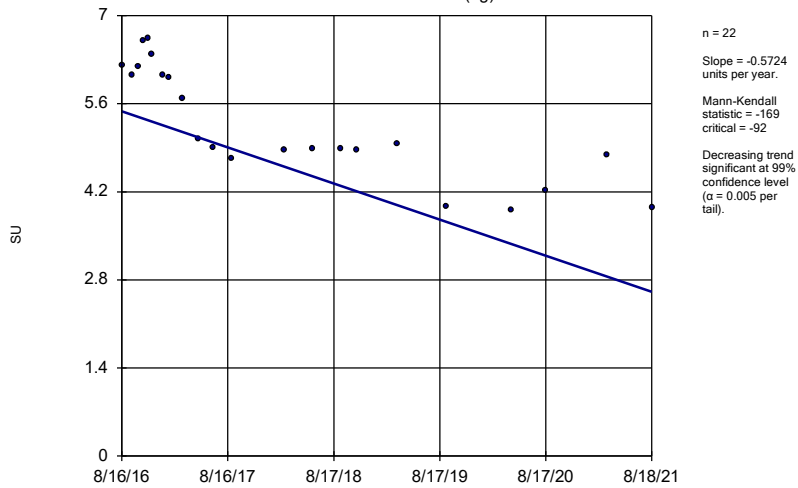
GC-AP-MW-28 (bg)



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

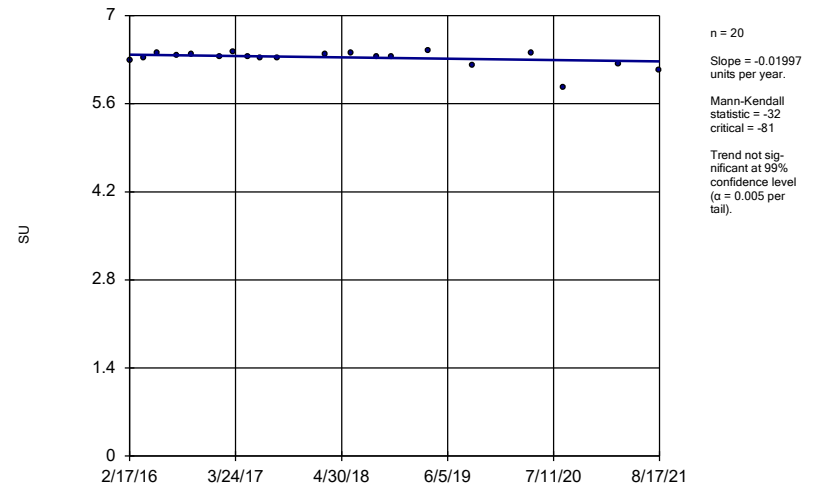
GC-AP-MW-29 (bg)



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

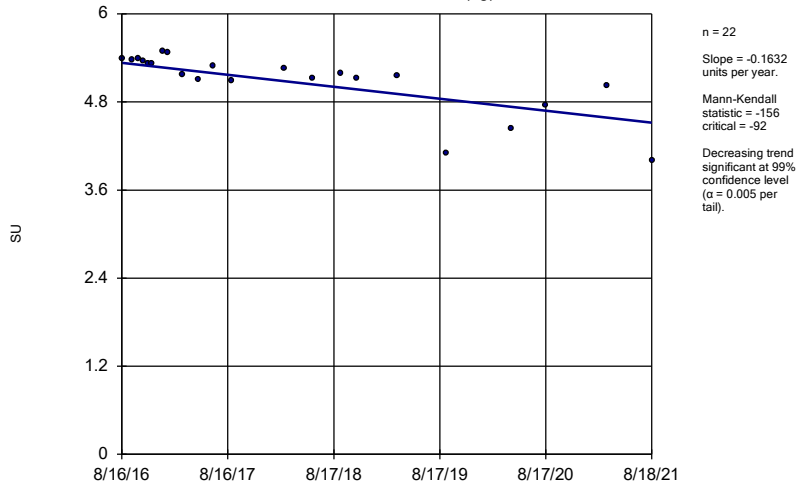
GC-AP-MW-3



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

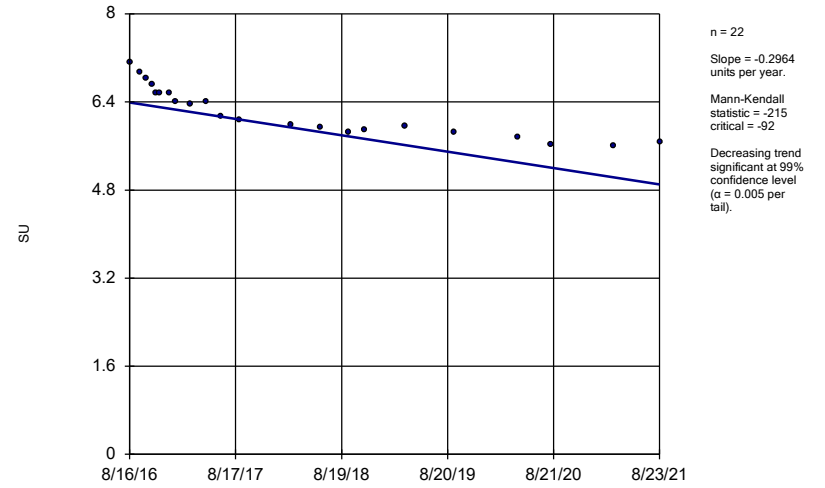
GC-AP-MW-30 (bg)



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

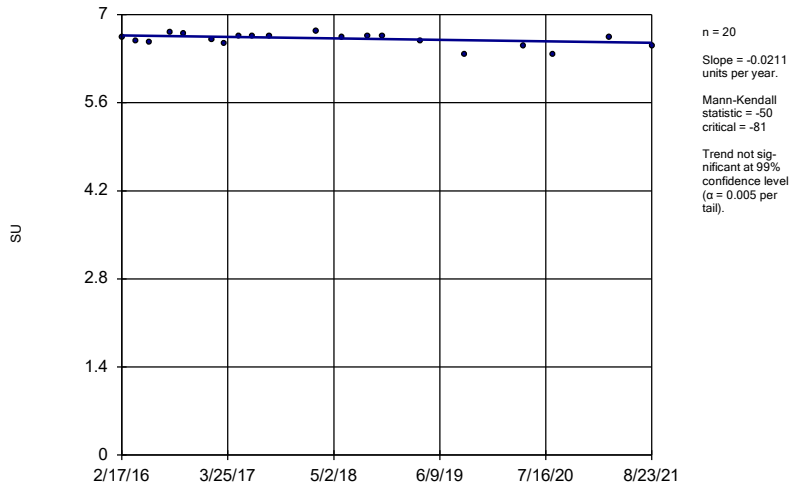
GC-AP-MW-31



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

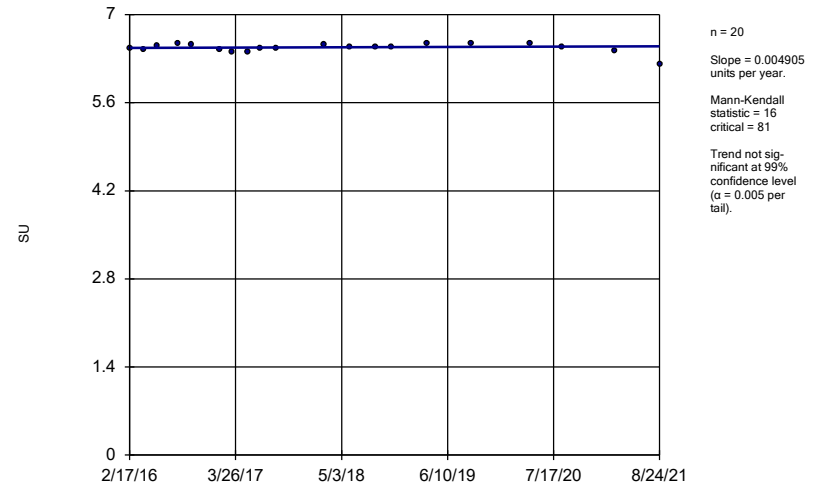
GC-AP-MW-5



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

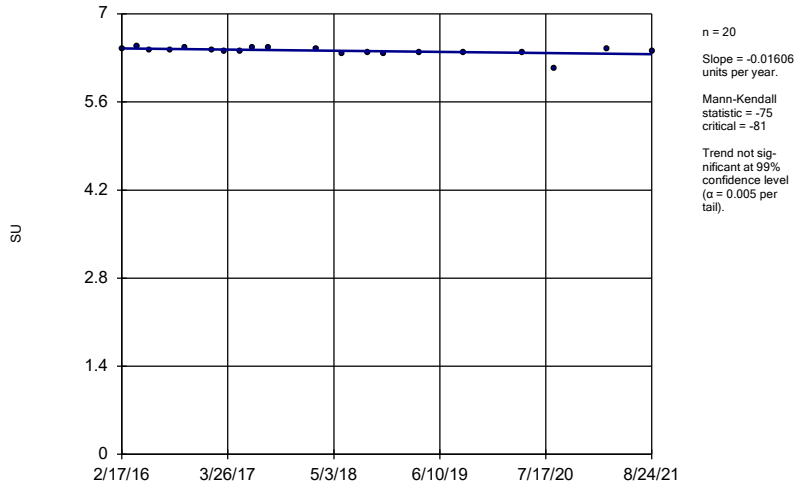
GC-AP-MW-6



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

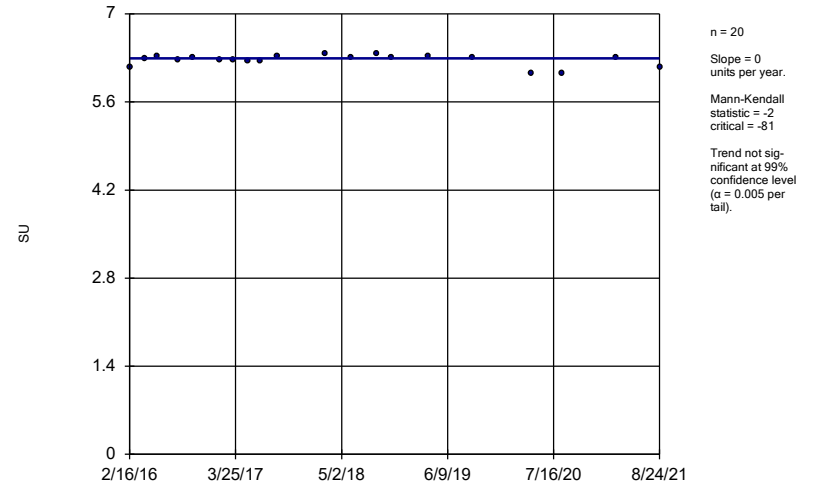
GC-AP-MW-7



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

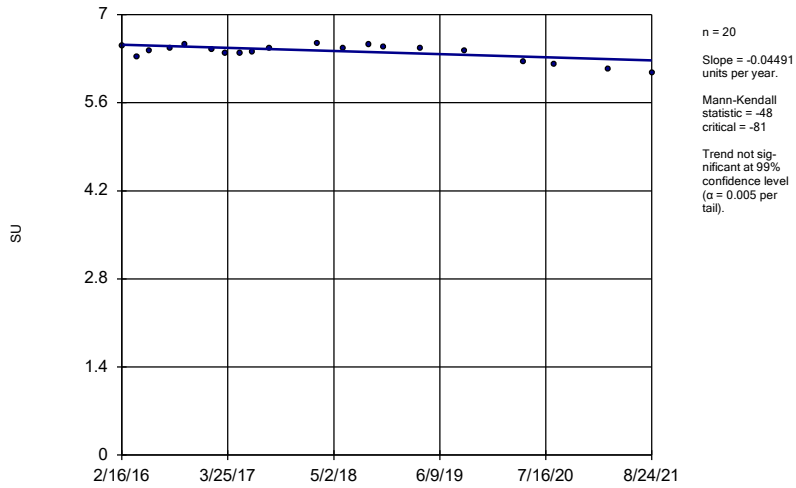
GC-AP-MW-8



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

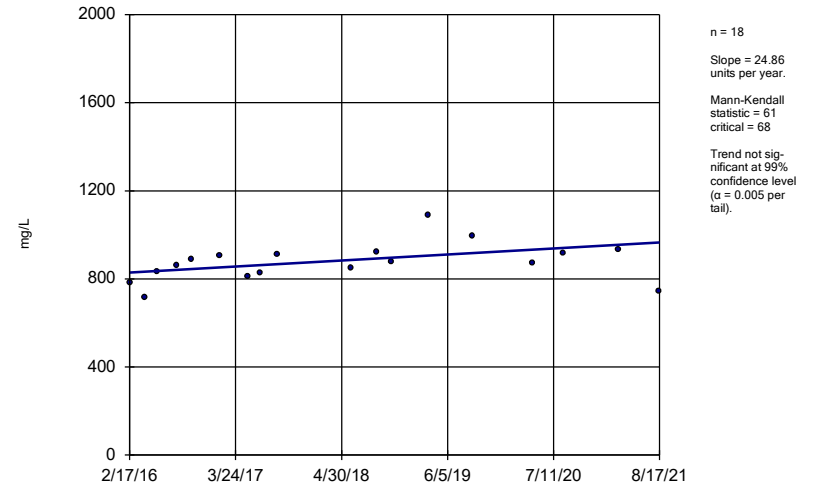
GC-AP-MW-9



Constituent: pH Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

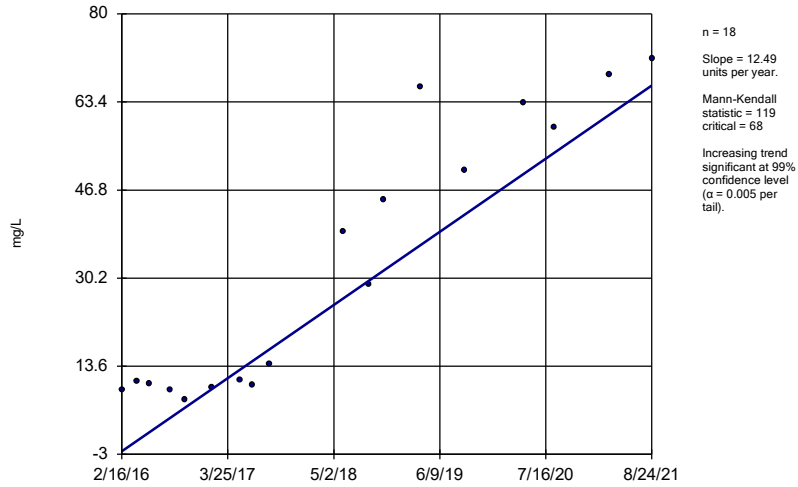
GC-AP-MW-1



Constituent: Sulfate Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

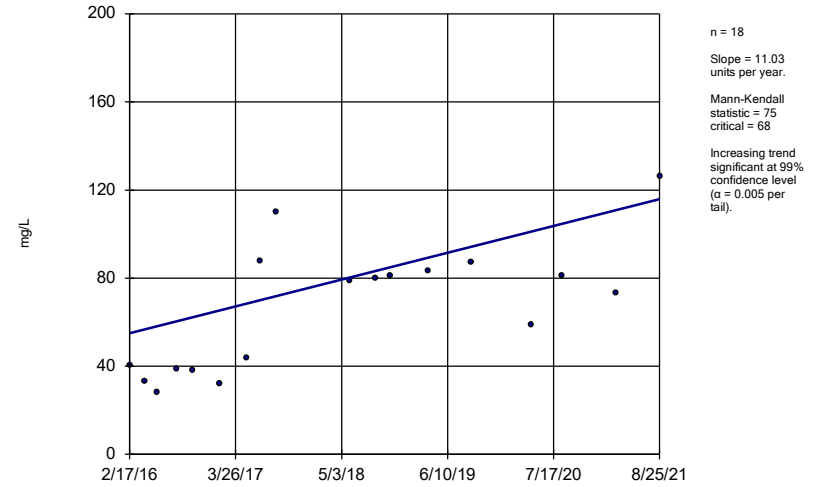
GC-AP-MW-10



Constituent: Sulfate Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

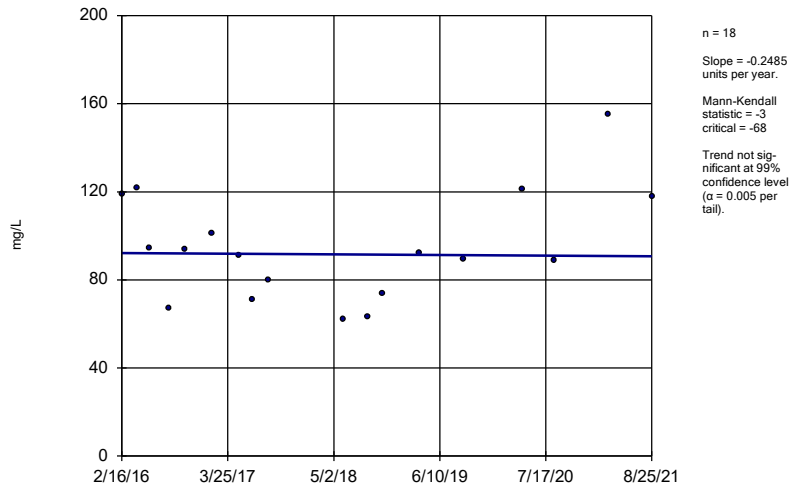
GC-AP-MW-11



Constituent: Sulfate Analysis Run 11/18/2021 6:13 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

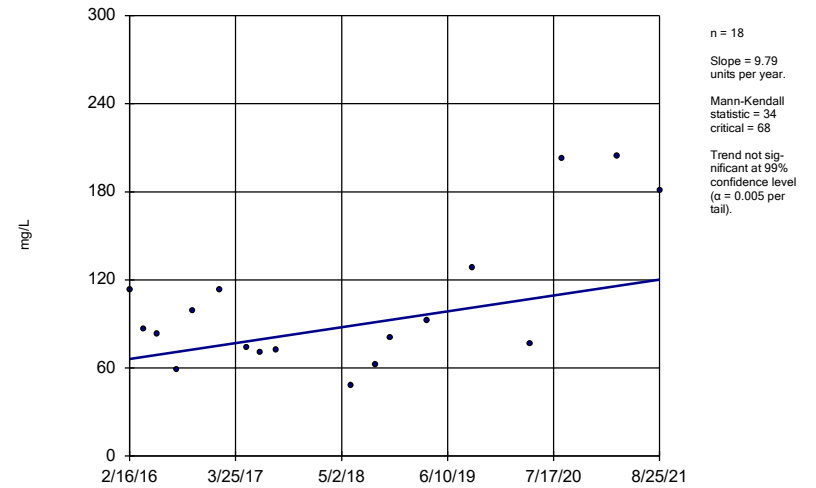
GC-AP-MW-12



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

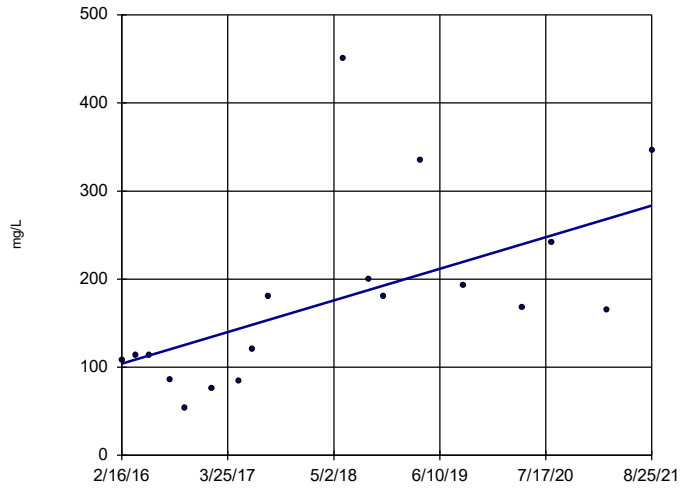
GC-AP-MW-13



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

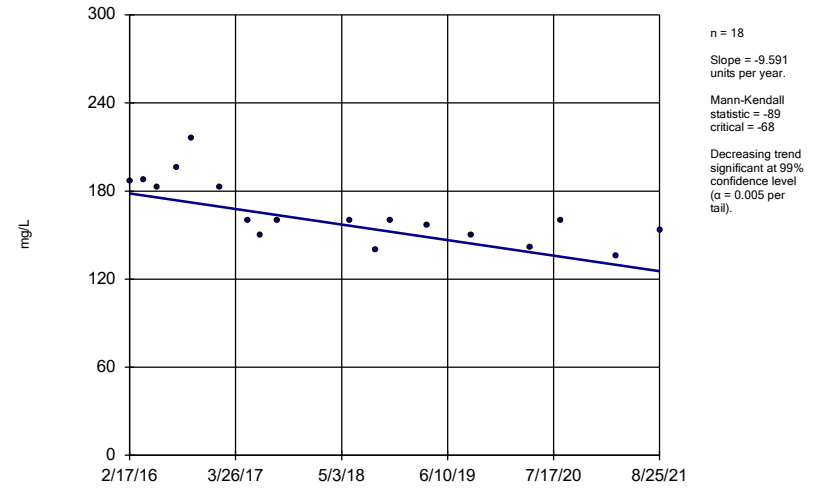
GC-AP-MW-14



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

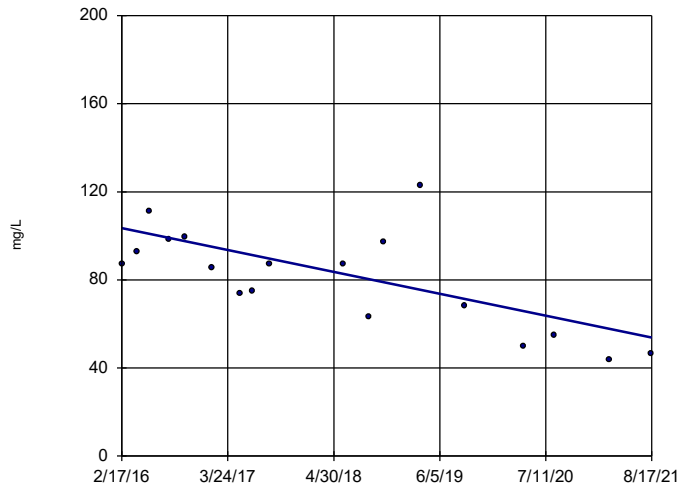
GC-AP-MW-15



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

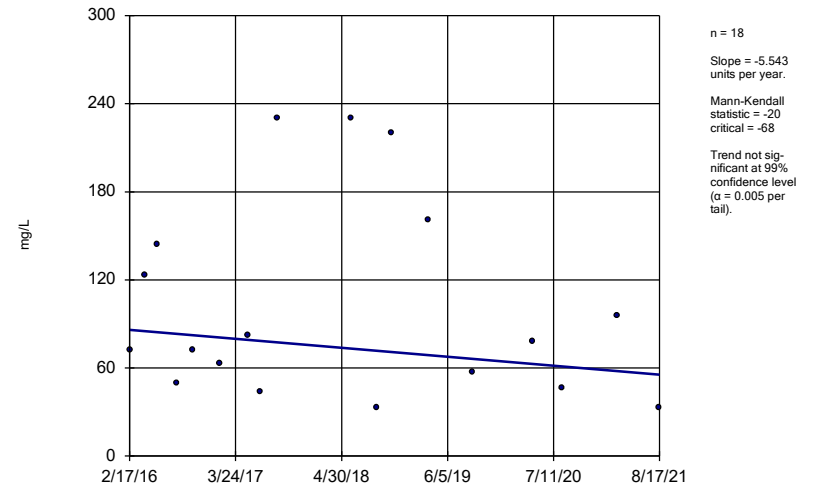
GC-AP-MW-16



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

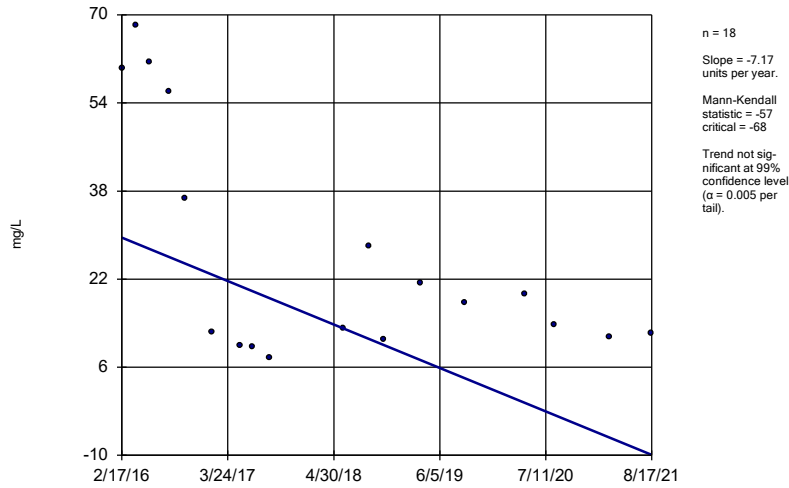
GC-AP-MW-17



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

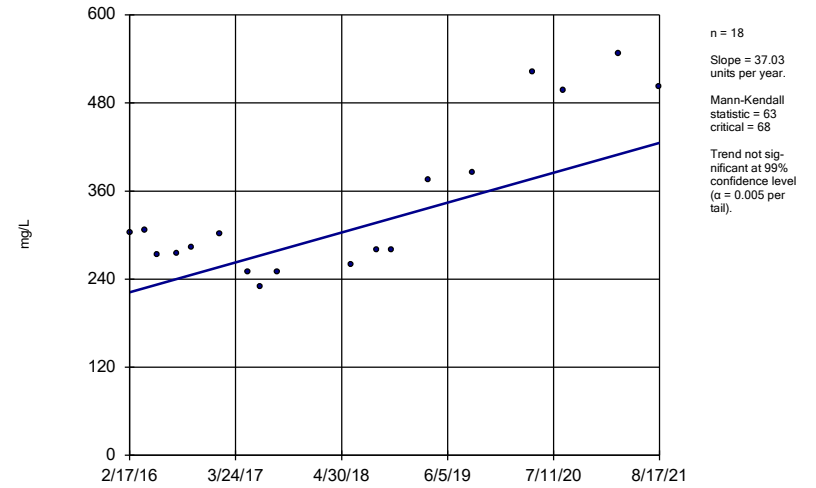
GC-AP-MW-18



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

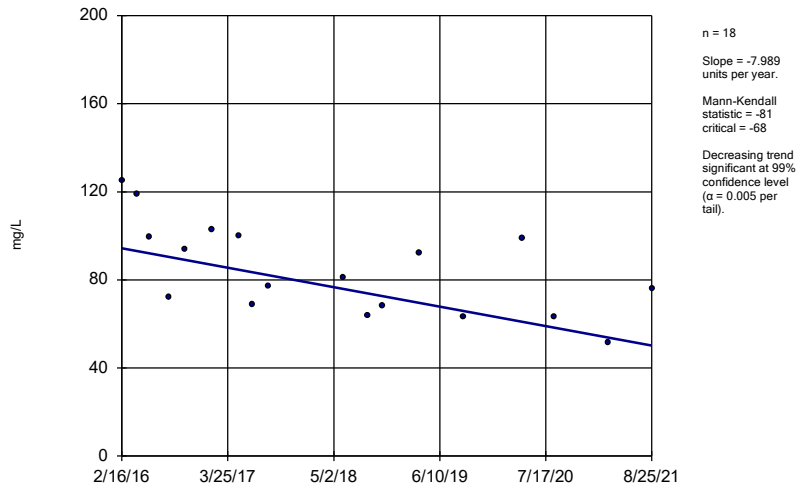
GC-AP-MW-2



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

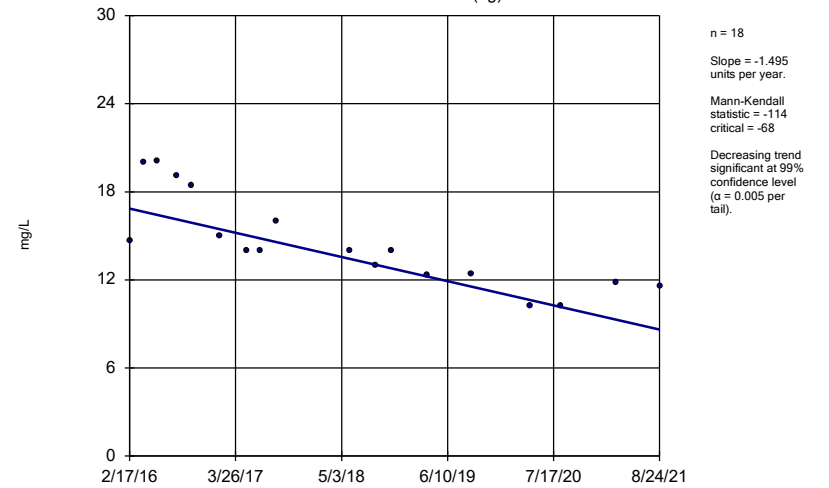
GC-AP-MW-21



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

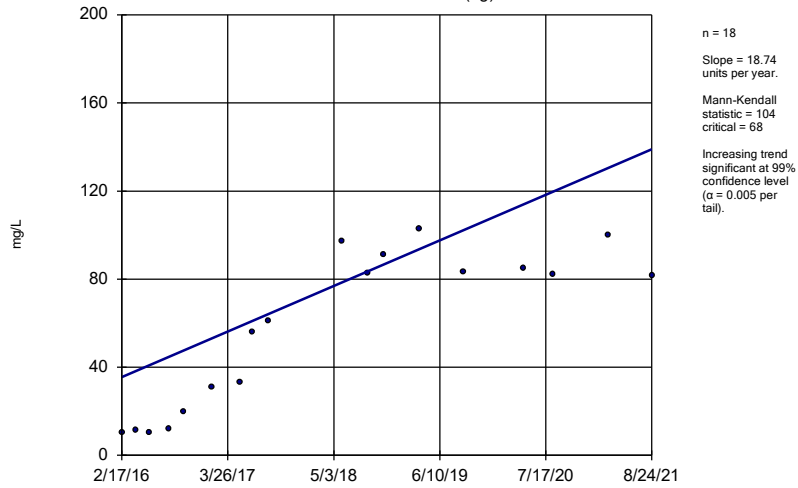
GC-AP-MW-23 (bg)



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

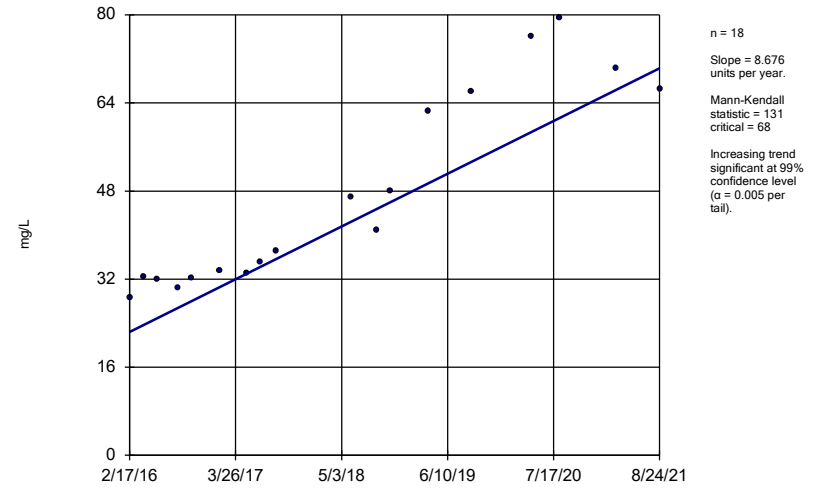
GC-AP-MW-24 (bg)



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

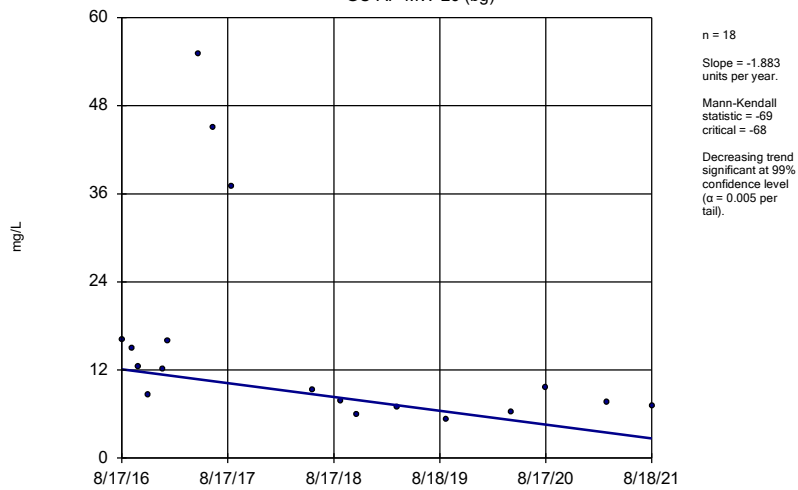
GC-AP-MW-25



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-26 (bg)

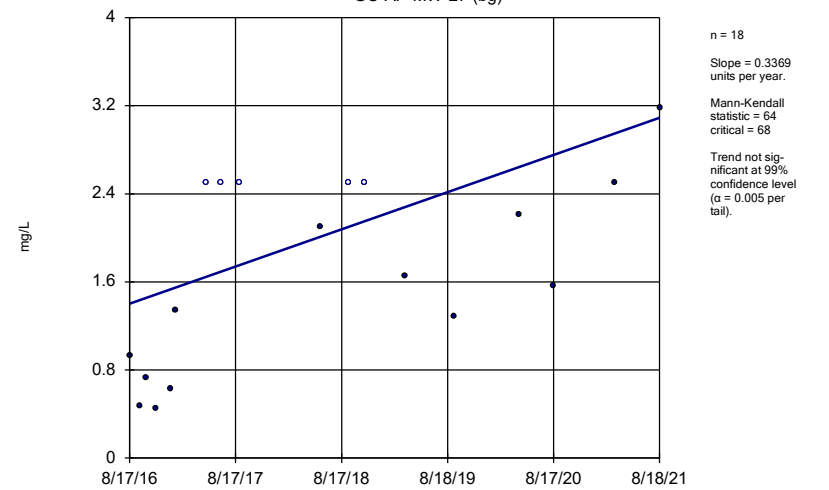


Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

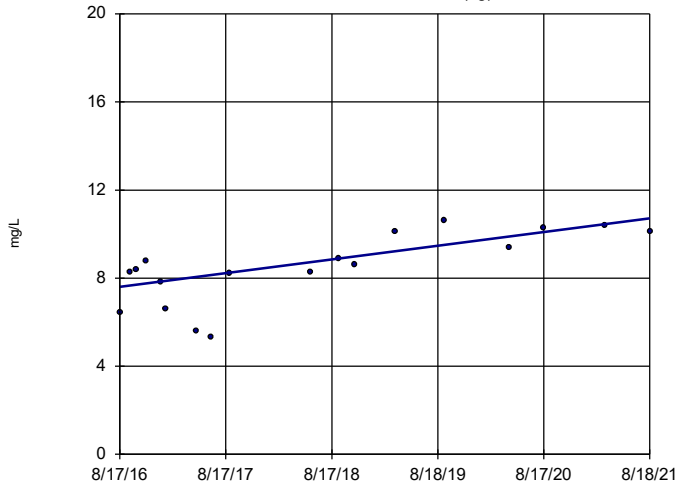
GC-AP-MW-27 (bg)



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-28 (bg)



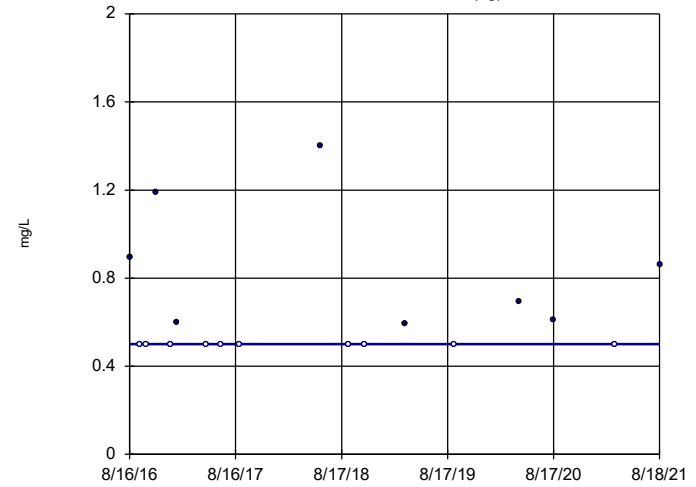
n = 18
 Slope = 0.621
 units per year.
 Mann-Kendall
 statistic = 83
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



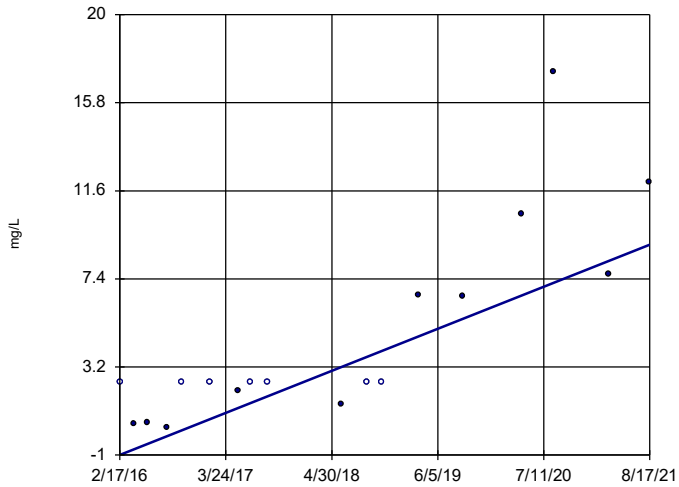
n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-3



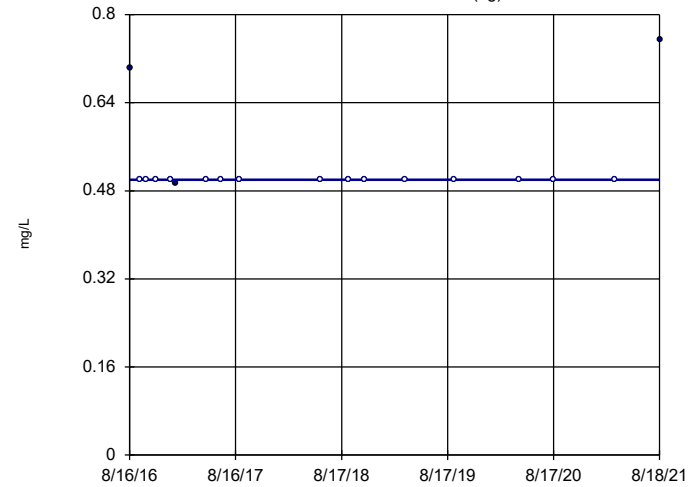
n = 18
 Slope = 1.821
 units per year.
 Mann-Kendall
 statistic = 96
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)

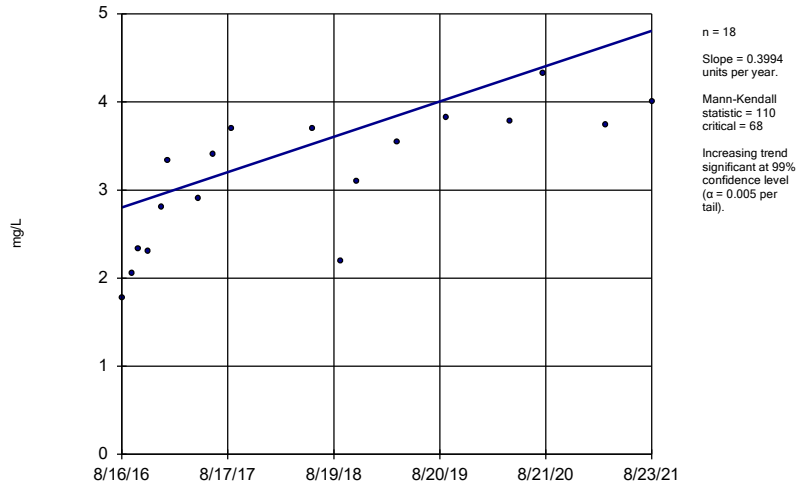


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 8
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

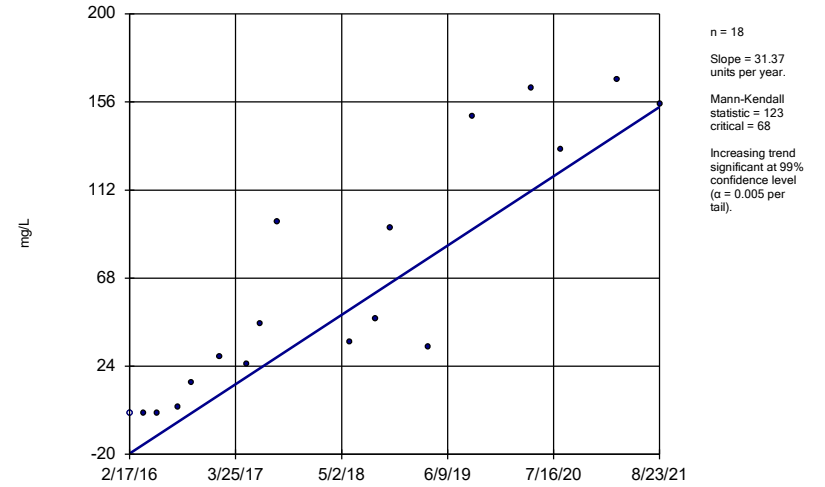
GC-AP-MW-31



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

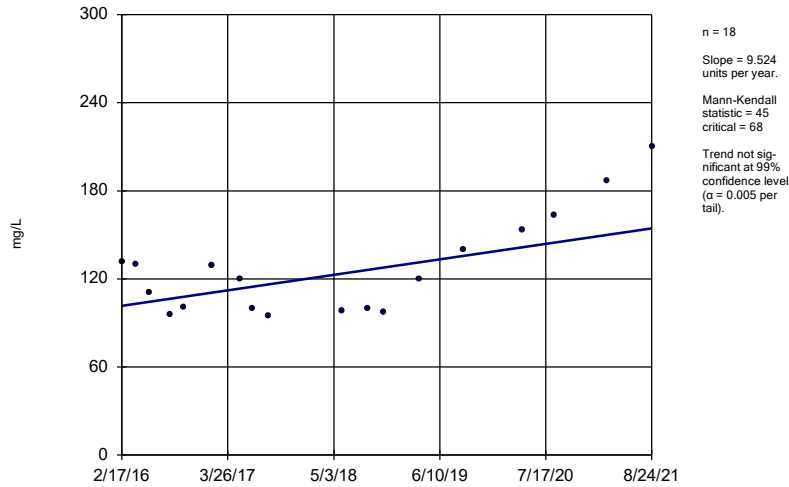
GC-AP-MW-5



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

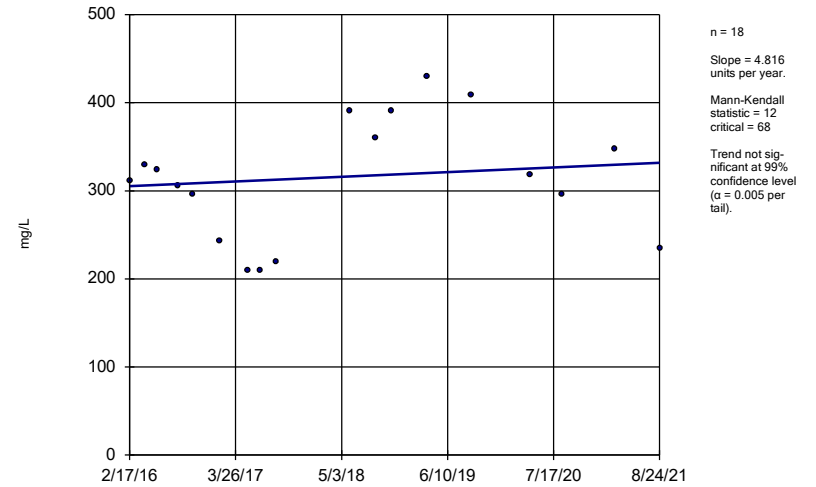
GC-AP-MW-6



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

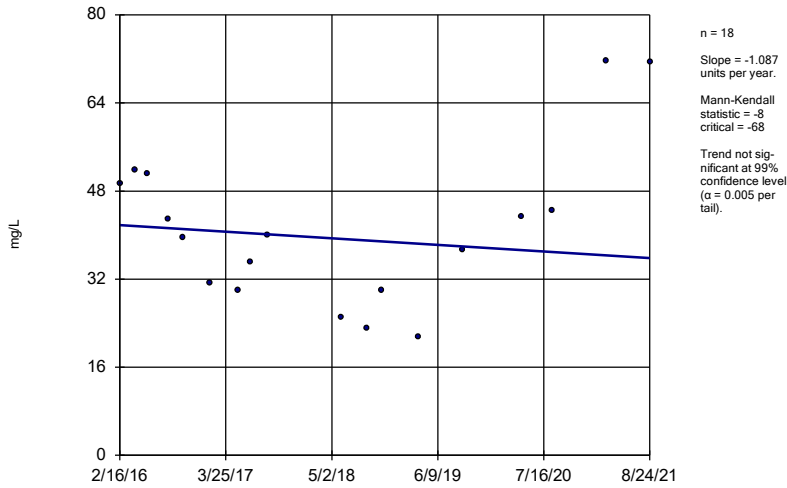
GC-AP-MW-7



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

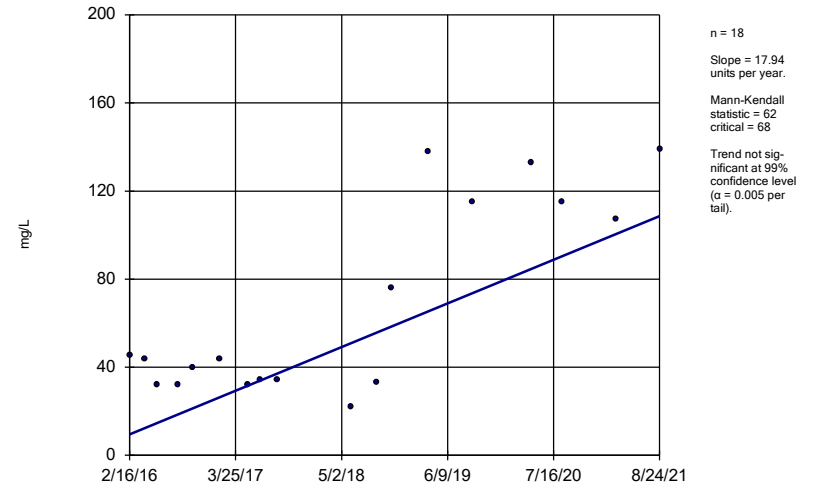
GC-AP-MW-8



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

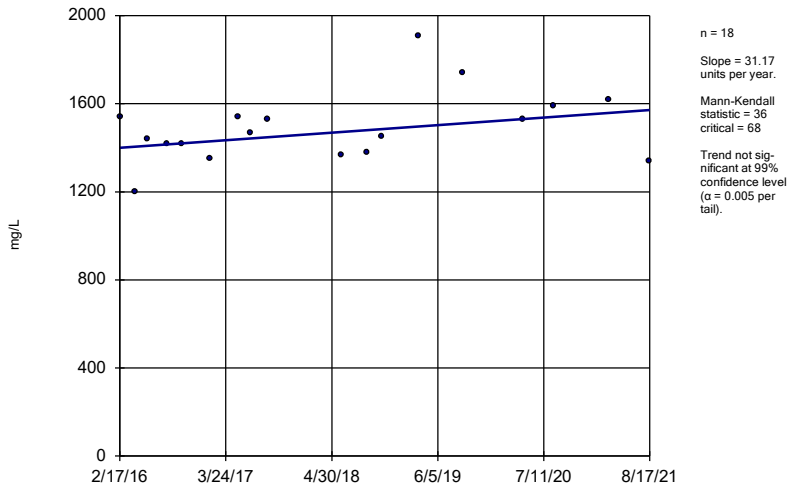
GC-AP-MW-9



Constituent: Sulfate Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

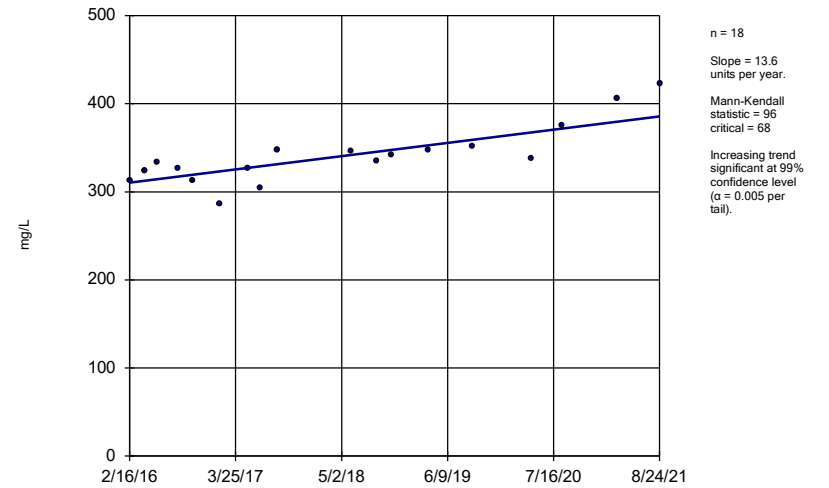
GC-AP-MW-1



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

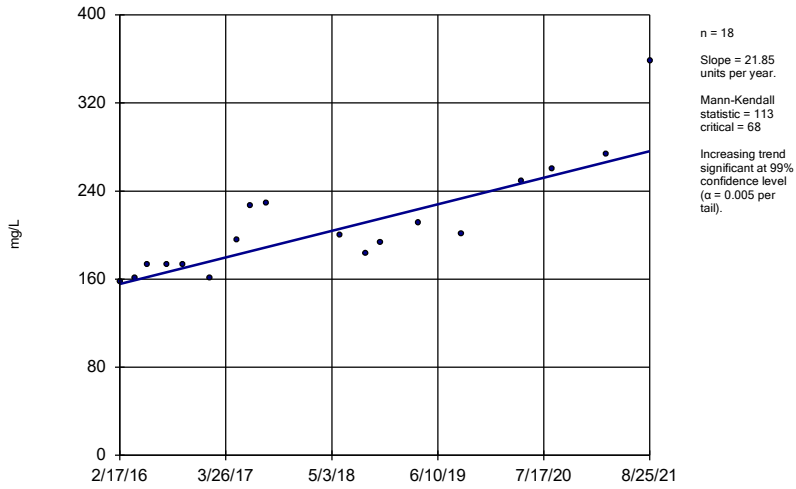
GC-AP-MW-10



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

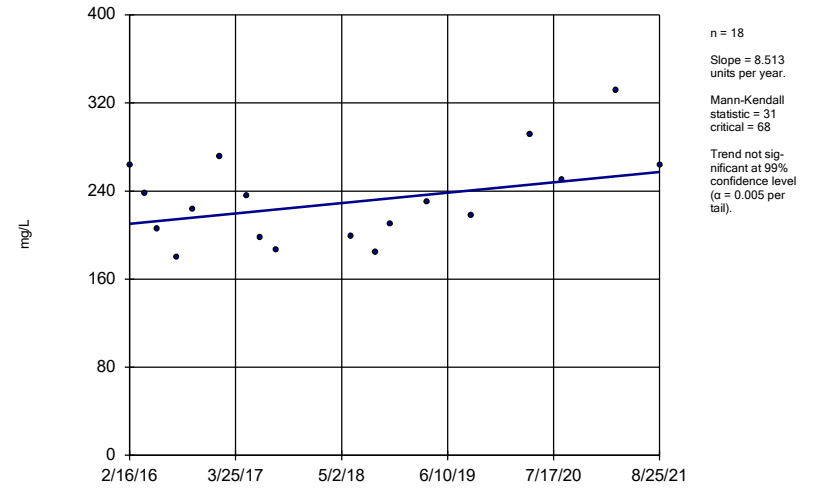
GC-AP-MW-11



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

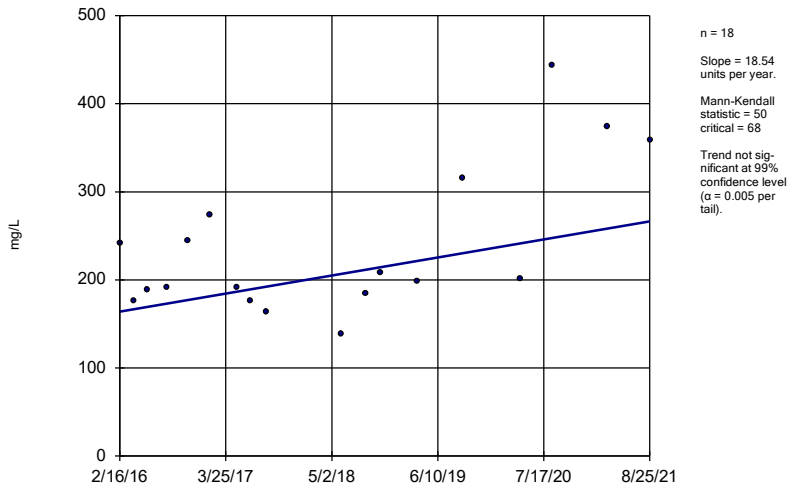
GC-AP-MW-12



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

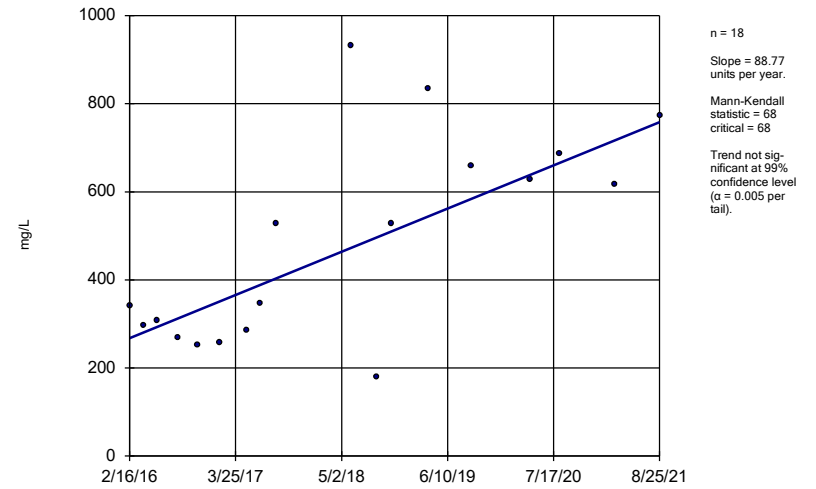
GC-AP-MW-13



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

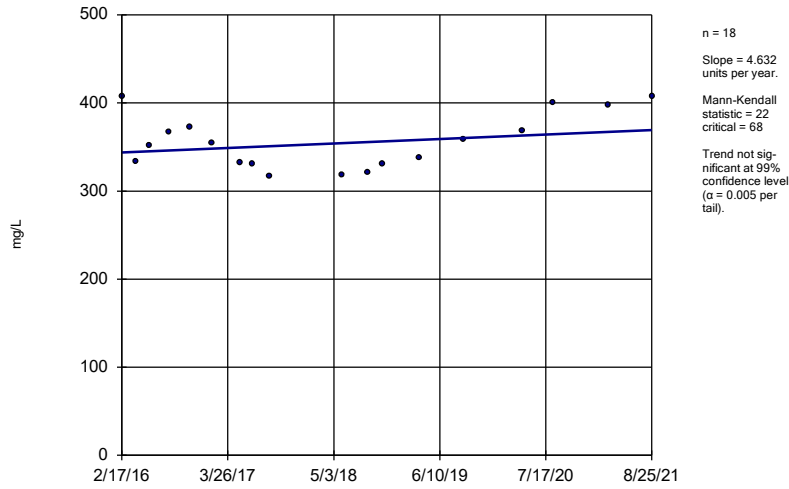
GC-AP-MW-14



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

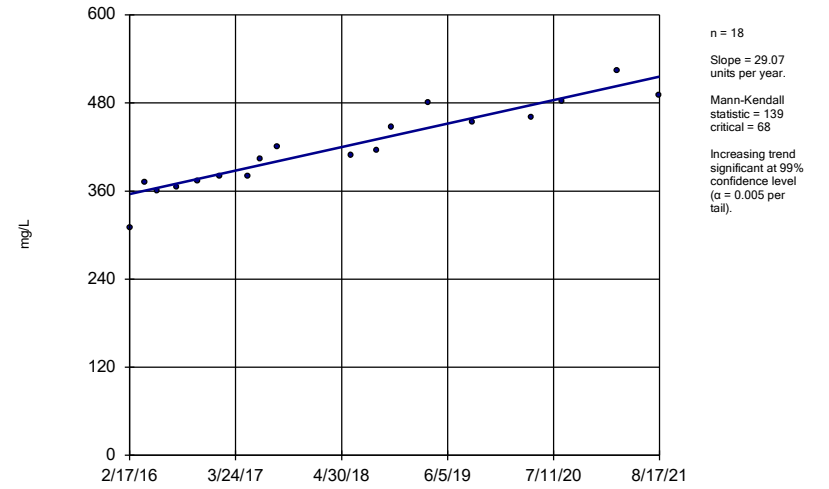
GC-AP-MW-15



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

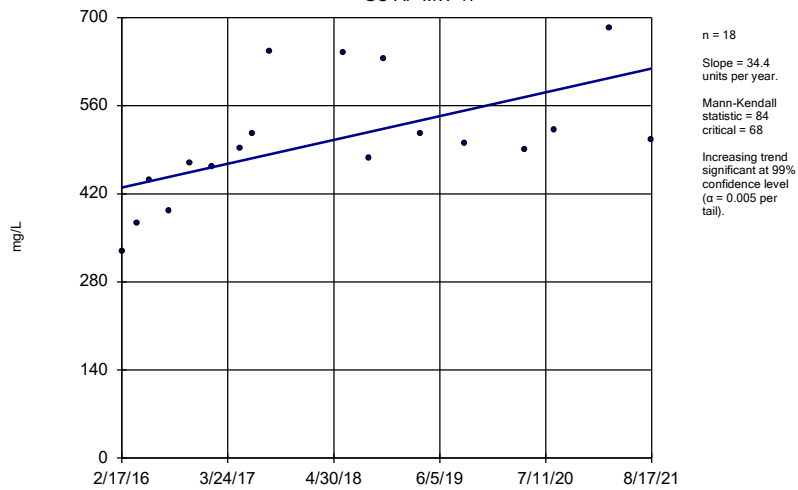
GC-AP-MW-16



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

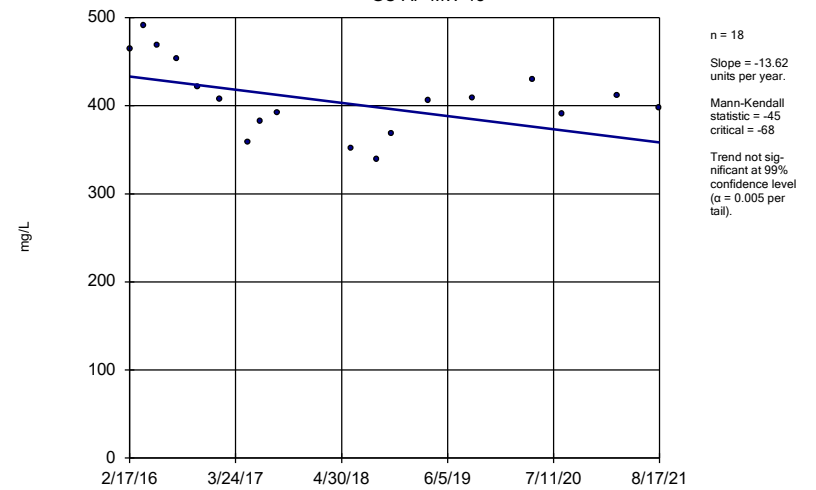
GC-AP-MW-17



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

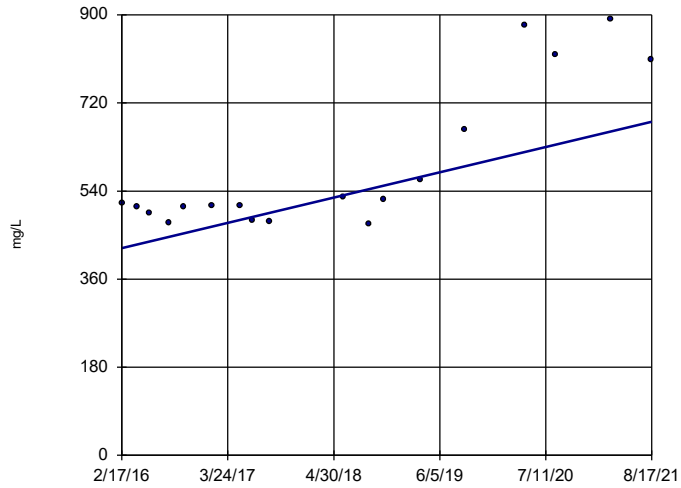
GC-AP-MW-18



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

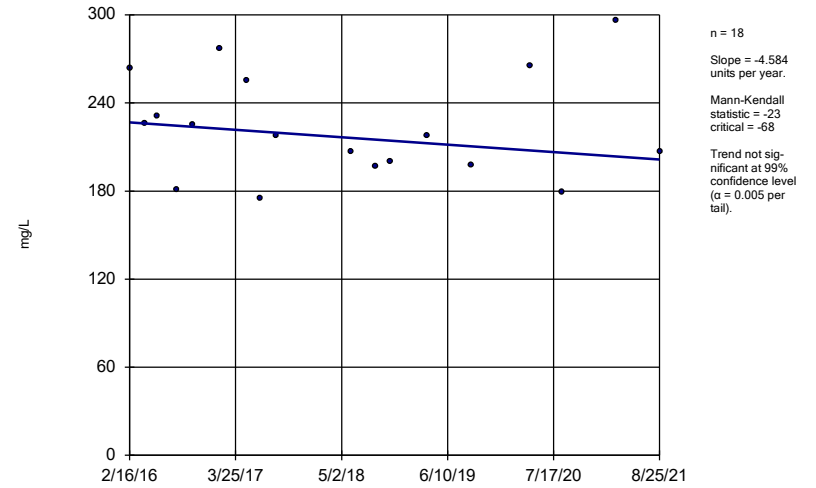
GC-AP-MW-2



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

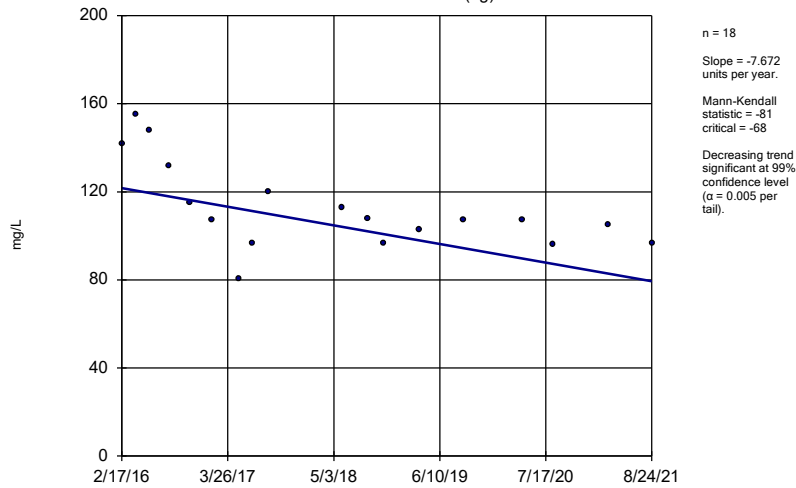
GC-AP-MW-21



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

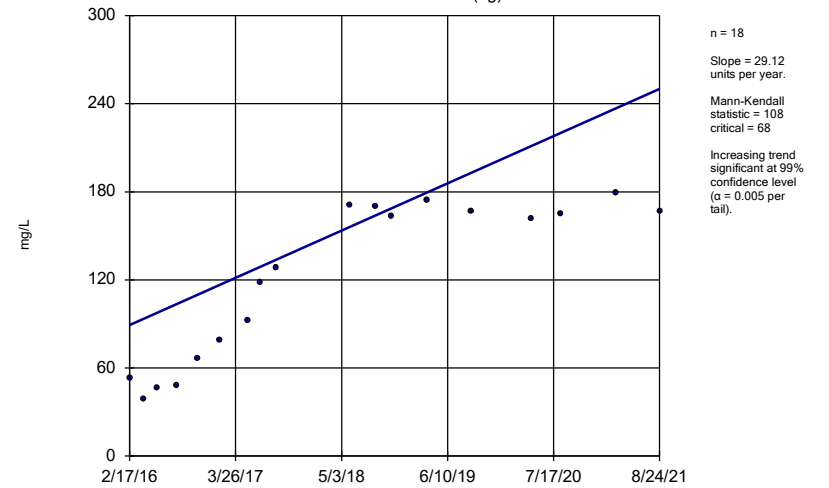
GC-AP-MW-23 (bg)



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

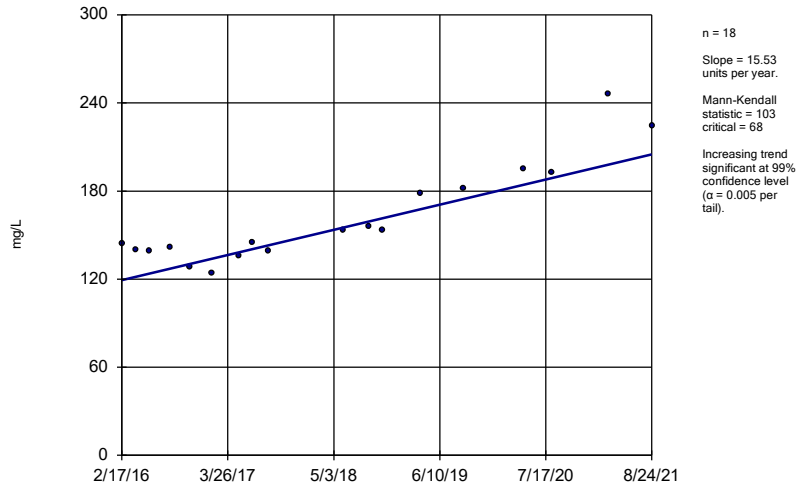
GC-AP-MW-24 (bg)



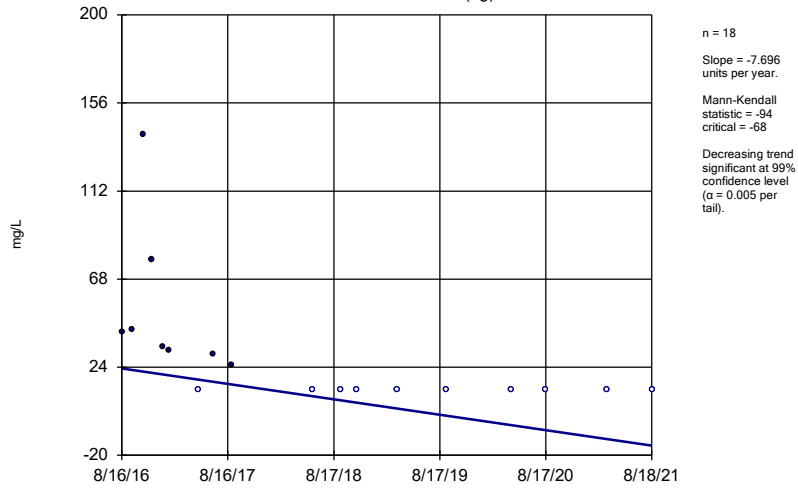
Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-25

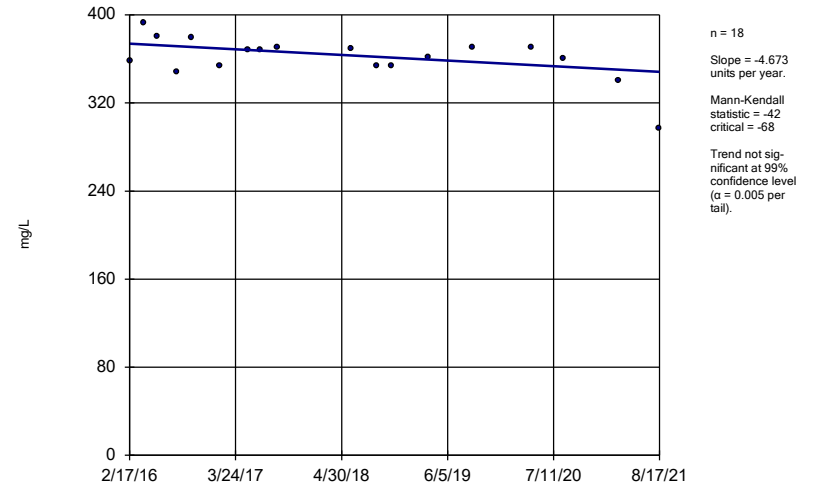


Sen's Slope Estimator
 GC-AP-MW-29 (bg)



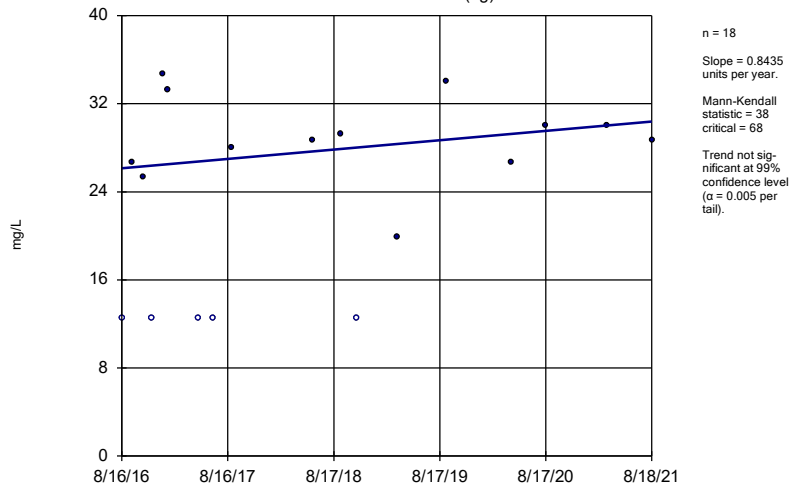
Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
 GC-AP-MW-3



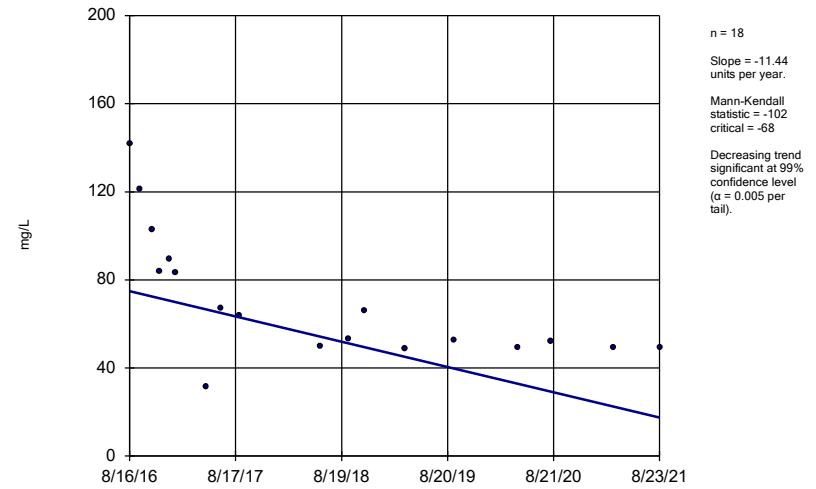
Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator
 GC-AP-MW-30 (bg)



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

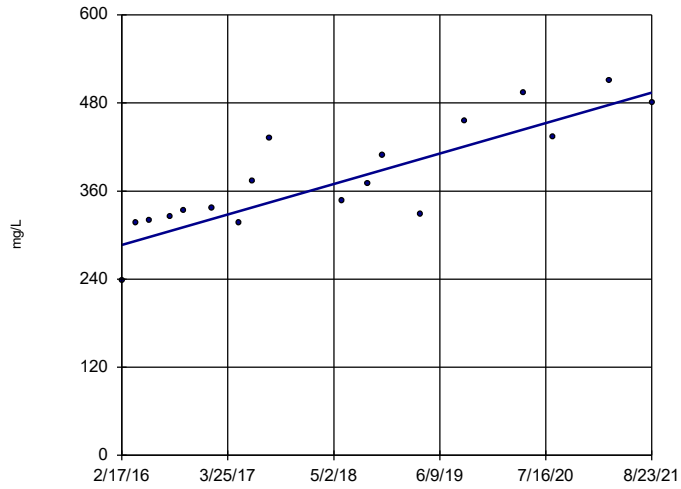
Sen's Slope Estimator
 GC-AP-MW-31



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-5

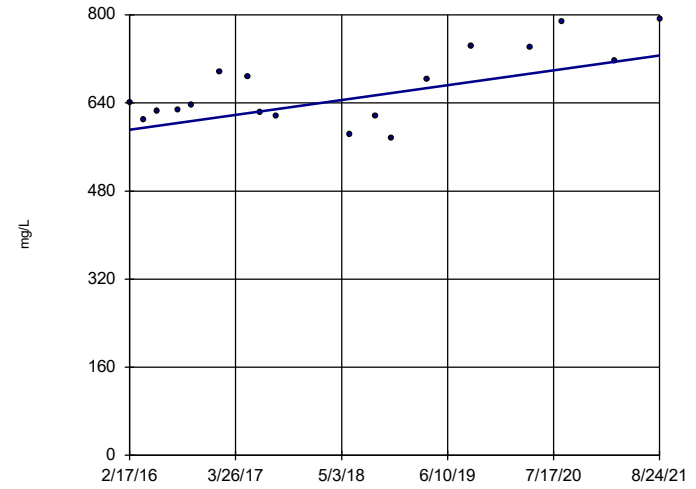


n = 18
 Slope = 37.62
 units per year.
 Mann-Kendall
 statistic = 113
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-6

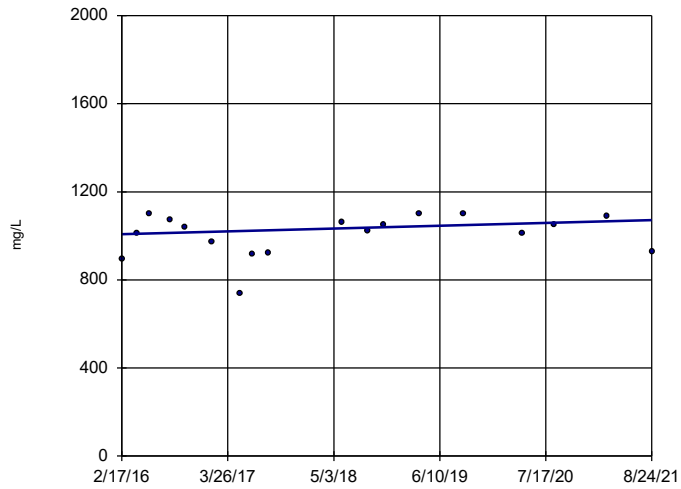


n = 18
 Slope = 24.46
 units per year.
 Mann-Kendall
 statistic = 50
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-7

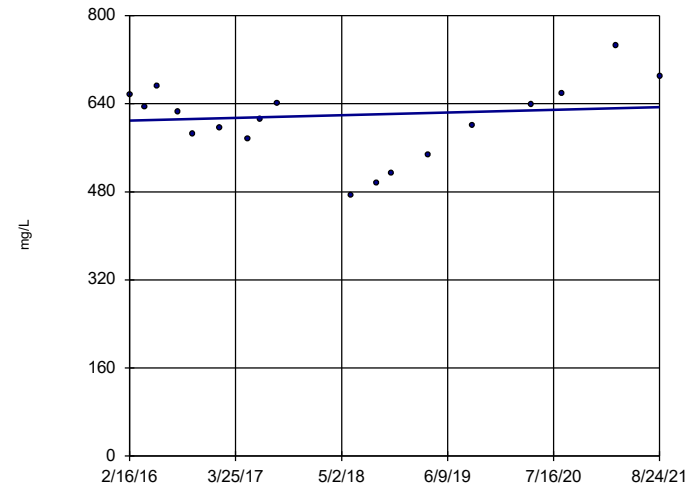


n = 18
 Slope = 11.34
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-8

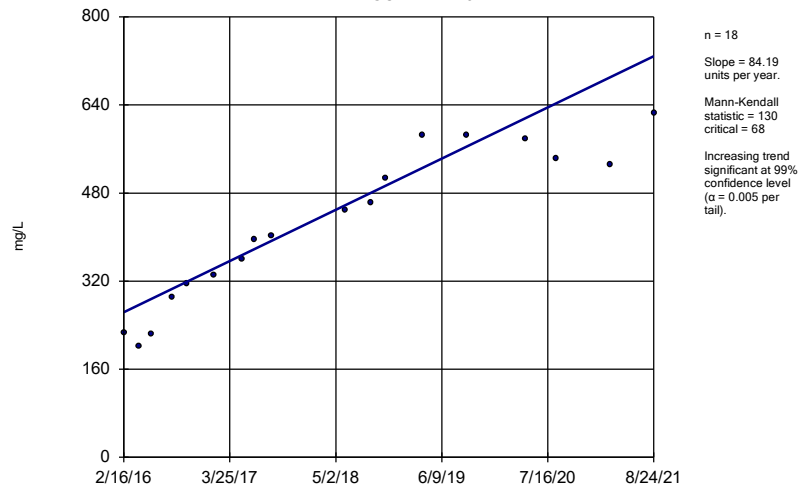


n = 18
 Slope = 4.354
 units per year.
 Mann-Kendall
 statistic = 11
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-9



Constituent: TDS Analysis Run 11/18/2021 6:14 PM View: Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:28 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.00137	119	n/a	n/a	91.6	n/a	n/a	0.002234	NP Inter(NDs)
Arsenic (mg/L)	0.0044	119	n/a	n/a	83.19	n/a	n/a	0.002234	NP Inter(NDs)
Barium (mg/L)	0.347	119	n/a	n/a	0	n/a	n/a	0.002234	NP Inter(normality)
Beryllium (mg/L)	0.00226	119	n/a	n/a	86.55	n/a	n/a	0.002234	NP Inter(NDs)
Cadmium (mg/L)	0.000912	119	n/a	n/a	74.79	n/a	n/a	0.002234	NP Inter(normality)
Chromium (mg/L)	0.01	119	n/a	n/a	88.24	n/a	n/a	0.002234	NP Inter(NDs)
Cobalt (mg/L)	0.0167	119	n/a	n/a	57.98	n/a	n/a	0.002234	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	3.88	119	n/a	n/a	3.361	n/a	n/a	0.002234	NP Inter(normality)
Fluoride (mg/L)	0.159	120	n/a	n/a	67.5	n/a	n/a	0.002122	NP Inter(normality)
Lead (mg/L)	0.0002	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)
Lithium (mg/L)	0.02	119	n/a	n/a	100	n/a	n/a	0.002234	NP Inter(NDs)
Mercury (mg/L)	0.0005	119	n/a	n/a	100	n/a	n/a	0.002234	NP Inter(NDs)
Molybdenum (mg/L)	0.00308	119	n/a	n/a	97.48	n/a	n/a	0.002234	NP Inter(NDs)
Selenium (mg/L)	0.0072	119	n/a	n/a	89.92	n/a	n/a	0.002234	NP Inter(NDs)
Thallium (mg/L)	0.00039	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)

FIGURE G.

GREENE COUNTY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00137	0.006
Arsenic	mg/L	0.0044	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.00226	0.004
Cadmium	mg/L	0.000912	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	3.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00308	0.1
Selenium	mg/L	0.0072	0.05
Thallium	mg/L	0.00039	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.

Appendix IV Confidence Intervals - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.0257	0.01943	0.01	Yes	8	0.02256	0.002958	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0233	0.0121	0.01	Yes	8	0.01441	0.00374	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-14	0.03248	0.01975	0.01	Yes	8	0.02611	0.006006	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.1032	0.0651	0.01	Yes	8	0.08413	0.01795	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.8211	0.2849	0.01	Yes	8	0.553	0.2529	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.0661	0.0477	0.01	Yes	8	0.05153	0.006034	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-5	0.4632	0.3926	0.01	Yes	8	0.4279	0.0333	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2419	0.09402	0.0167	Yes	8	0.168	0.06975	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.04089	0.01771	0.0167	Yes	8	0.0293	0.01094	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.03978	0.02009	0.0167	Yes	8	0.02994	0.00929	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.198	0.104	0.04	Yes	8	0.1301	0.03153	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1323	0.08237	0.04	Yes	8	0.1073	0.02355	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1366	0.05552	0.04	Yes	8	0.09605	0.03824	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4092	0.1002	0.04	Yes	8	0.2547	0.1457	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	1.038	0.6368	0.04	Yes	8	0.8374	0.1892	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6303	0.5344	0.04	Yes	8	0.5824	0.04524	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6582	0.5236	0.04	Yes	8	0.5909	0.06351	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.864	0.531	0.04	Yes	8	0.6138	0.1052	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-18	0.3933	0.3364	0.04	Yes	8	0.3649	0.02684	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1145	0.05042	0.04	Yes	8	0.08245	0.03022	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1376	0.1023	0.04	Yes	8	0.12	0.01663	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-1	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-11	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-12	0.00121	0.00102	0.006	No	8	0.001044	0.00006718	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.003439	0.001973	0.006	No	8	0.002706	0.0006916	0	None	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.00102	0.000897	0.006	No	8	0.001005	0.00004349	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.00102	0.000964	0.006	No	8	0.001013	0.0000198	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-25	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-29 (bg)	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-31	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-32	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-33	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.00141	0.00102	0.006	No	8	0.001069	0.0001379	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.00102	0.00075	0.006	No	8	0.0009862	0.00009546	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.00102	0.00102	0.006	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-1	0.0257	0.01943	0.01	Yes	8	0.02256	0.002958	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.0233	0.0121	0.01	Yes	8	0.01441	0.00374	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-11	0.006262	0.002966	0.01	No	8	0.004614	0.001555	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.000251	0.0002	0.01	No	8	0.0002101	0.00001957	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-13	0.005115	0.00146	0.01	No	8	0.003288	0.001724	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.03248	0.01975	0.01	Yes	8	0.02611	0.006006	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-15	0.00046	0.0002	0.01	No	8	0.0002511	0.0000992	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-16	0.1032	0.0651	0.01	Yes	8	0.08413	0.01795	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.8211	0.2849	0.01	Yes	8	0.553	0.2529	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.0661	0.0477	0.01	Yes	8	0.05153	0.006034	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-2	0.01634	0.004488	0.01	No	8	0.01042	0.005592	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.000216	0.00014	0.01	No	8	0.0001945	0.00002272	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-25	0.00033	0.0002	0.01	No	8	0.0002262	0.00005041	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-29 (bg)	0.0002	0.00009	0.01	No	8	0.0001862	0.00003889	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-31	0.0002	0.000111	0.01	No	8	0.0001889	0.00003147	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.0002	0.000142	0.01	No	8	0.0001915	0.0000203	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-33	0.0002	0.0002	0.01	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-5	0.4632	0.3926	0.01	Yes	8	0.4279	0.0333	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-6	0.000303	0.0002	0.01	No	8	0.0002229	0.0000428	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-7	0.0002	0.0001	0.01	No	8	0.0001812	0.0000372	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-8	0.00027	0.0002	0.01	No	8	0.0002147	0.00002794	75	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-9	0.01088	0.008615	0.01	No	8	0.009744	0.00126	0	None	x^3	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03189	0.02076	2	No	8	0.02633	0.005246	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.256	0.1608	2	No	8	0.2084	0.0449	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.09353	0.05898	2	No	8	0.07588	0.0173	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03354	0.01998	2	No	8	0.02676	0.006398	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1987	0.07468	2	No	8	0.1349	0.06771	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1111	0.06	2	No	8	0.08555	0.02411	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.03802	0.02765	2	No	8	0.03284	0.004894	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.1017	0.05639	2	No	8	0.07905	0.02138	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3346	0.1939	2	No	8	0.2643	0.0664	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1181	0.07945	2	No	8	0.09879	0.01824	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03605	0.02977	2	No	8	0.03291	0.002963	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GC-AP-MW-21	0.09086	0.03807	2	No	8	0.06446	0.0249	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1079	0.08222	2	No	8	0.09506	0.01212	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-29 (bg)	0.05417	0.037	2	No	8	0.04559	0.008101	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.03077	0.02268	2	No	8	0.02673	0.003813	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0764	0.0123	2	No	8	0.02808	0.02768	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.09627	0.03669	2	No	8	0.06554	0.03401	0	None	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.323	0.134	2	No	8	0.213	0.08253	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-6	0.07915	0.05638	2	No	8	0.06776	0.01074	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08536	0.07174	2	No	8	0.07855	0.006429	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1337	0.08444	2	No	8	0.1091	0.02323	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.192	0.1333	2	No	8	0.1626	0.02768	0	None	No	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-25	0.00102	0.00102	0.004	No	8	0.00102	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.000347	0.0002	0.005	No	8	0.0002184	0.00005197	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.0002	0.00012	0.005	No	8	0.0001825	0.00003284	75	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-2	0.0002	0.00013	0.005	No	8	0.0001912	0.00002475	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.0002	0.0000702	0.005	No	8	0.0001838	0.00004589	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-25	0.0002	0.00009	0.005	No	8	0.0001862	0.00003889	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-29 (bg)	0.000204	0.00019	0.005	No	8	0.0001992	0.000003991	75	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.00018	0.005	No	8	0.00052	0.0009132	75	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-8	0.000241	0.0002	0.005	No	8	0.0002051	0.0000145	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.001015	0.00034	0.1	No	8	0.0008464	0.0003122	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-10	0.001015	0.000357	0.1	No	8	0.0008509	0.0003039	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-11	0.001015	0.00027	0.1	No	8	0.0009219	0.0002634	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-12	0.001015	0.000224	0.1	No	8	0.000833	0.0003387	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-13	0.001015	0.00026	0.1	No	8	0.0008326	0.000338	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-14	0.001015	0.00023	0.1	No	8	0.0008346	0.0003357	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-15	0.001015	0.00027	0.1	No	8	0.0008326	0.0003378	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-16	0.001015	0.0004	0.1	No	8	0.0008668	0.0002748	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-17	0.001015	0.000216	0.1	No	8	0.0008158	0.0003689	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-18	0.001015	0.00023	0.1	No	8	0.0008333	0.000338	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-2	0.00267	0.0004	0.1	No	8	0.001145	0.0006527	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-21	0.001015	0.00027	0.1	No	8	0.0008366	0.0003307	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-25	0.001015	0.00028	0.1	No	8	0.0008338	0.0003357	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-29 (bg)	0.001015	0.00026	0.1	No	8	0.0008429	0.0003207	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-31	0.001015	0.00042	0.1	No	8	0.0008723	0.0002646	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-32	0.001015	0.00038	0.1	No	8	0.0008626	0.0002825	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-33	0.001015	0.0005	0.1	No	8	0.0009086	0.0002027	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-5	0.001015	0.00027	0.1	No	8	0.0008306	0.0003414	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-6	0.001015	0.00026	0.1	No	8	0.0008371	0.0003302	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-7	0.001015	0.000351	0.1	No	8	0.0008501	0.0003053	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-8	0.001015	0.00031	0.1	No	8	0.0008433	0.0003182	75	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-9	0.001015	0.0003	0.1	No	8	0.0008464	0.000313	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-1	0.2419	0.09402	0.0167	Yes	8	0.168	0.06975	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.04142	0.01286	0.0167	No	8	0.02661	0.01501	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.04089	0.01771	0.0167	Yes	8	0.0293	0.01094	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.00118	0.0002	0.0167	No	8	0.000415	0.0004032	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-13	0.000312	0.00007	0.0167	No	8	0.0001977	0.00006481	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-14	0.03978	0.02009	0.0167	Yes	8	0.02994	0.00929	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01978	0.01607	0.0167	No	8	0.01793	0.001748	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01704	0.01309	0.0167	No	8	0.01506	0.001865	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.03078	0.01047	0.0167	No	8	0.02038	0.01224	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01764	0.01488	0.0167	No	8	0.01626	0.001303	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.02701	0.01008	0.0167	No	8	0.01855	0.007989	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-21	0.00204	0.0002	0.0167	No	8	0.0005887	0.0007358	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-25	0.01322	0.008801	0.0167	No	8	0.01103	0.002275	0	None	x^2	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-29 (bg)	0.0032	0.0006699	0.0167	No	8	0.001935	0.001276	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-31	0.000624	0.0002	0.0167	No	8	0.000303	0.0001908	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-32	0.00105	0.0002	0.0167	No	8	0.0003947	0.0003626	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-33	0.0002	0.0002	0.0167	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.007756	0.005214	0.0167	No	8	0.006485	0.001199	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003646	0.002144	0.0167	No	8	0.002895	0.0007085	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003954	0.001189	0.0167	No	8	0.002571	0.001304	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.01069	0.005169	0.0167	No	8	0.00793	0.002605	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.02546	0.01235	0.0167	No	8	0.01878	0.006633	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.479	0.8935	5	No	8	1.186	0.2762	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.304	0.7249	5	No	8	1.014	0.273	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.716	0.3875	5	No	8	0.5518	0.155	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	0.4167	-0.006568	5	No	8	0.2051	0.1997	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.5651	0.2819	5	No	8	0.4235	0.1335	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.366	0.7254	5	No	8	1.046	0.3022	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	0.8089	-0.01243	5	No	8	0.3983	0.3875	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.246	0.3429	5	No	8	0.7946	0.4262	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.103	0.9517	5	No	8	1.527	0.5431	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.531	0.8688	5	No	8	1.194	0.3725	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.372	0.4214	5	No	8	0.8816	0.5027	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.5083	0.00631	5	No	8	0.2573	0.2368	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.7903	0.06719	5	No	8	0.4288	0.3411	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-29 (bg)	1.545	0.17	5	No	8	0.8911	1.236	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.7019	0.1435	5	No	8	0.4227	0.2634	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	1.931	-0.4671	5	No	8	0.7321	1.131	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.346	0.7809	5	No	8	1.54	0.8407	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.033	1.195	5	No	8	1.614	0.3957	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.274	0.4795	5	No	8	0.8768	0.3748	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.129	0.5125	5	No	8	0.812	0.3375	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.445	0.3727	5	No	8	0.9086	0.5056	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.669	0.8994	5	No	8	1.284	0.3629	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1804	0.07032	4	No	8	0.1254	0.05194	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2865	0.201	4	No	8	0.2438	0.04034	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1833	0.1035	4	No	8	0.1434	0.03765	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2327	0.1713	4	No	8	0.202	0.02899	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1349	0.07823	4	No	8	0.1066	0.02674	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.2742	0.1835	4	No	8	0.2289	0.04277	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1514	0.1121	4	No	8	0.1318	0.01856	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.3035	0.25	4	No	8	0.2768	0.02528	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.5898	0.4382	4	No	8	0.514	0.07147	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.2055	0.1633	4	No	8	0.1844	0.01991	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1567	0.06724	4	No	8	0.112	0.0422	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2192	0.1323	4	No	8	0.1758	0.04102	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.104	0.0914	4	No	8	0.09943	0.003532	75	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0.1	0.1	4	No	8	0.1	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-31	0.1	0.1	4	No	8	0.1	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.1	0.04	4	No	8	0.08648	0.02524	75	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.1	0.08	4	No	8	0.0975	0.007071	75	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-5	0.2824	0.1977	4	No	8	0.2396	0.04162	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2458	0.1797	4	No	8	0.2128	0.03119	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1038	0.08243	4	No	8	0.09313	0.01009	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.162	0.109	4	No	8	0.1219	0.01927	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.2067	0.1583	4	No	8	0.1825	0.02286	0	None	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.0002	0.000109	0.015	No	8	0.0001774	0.00004189	75	None	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-2	0.000736	0.0002	0.015	No	8	0.0003157	0.0002179	75	None	No	0.004	NP (normality)

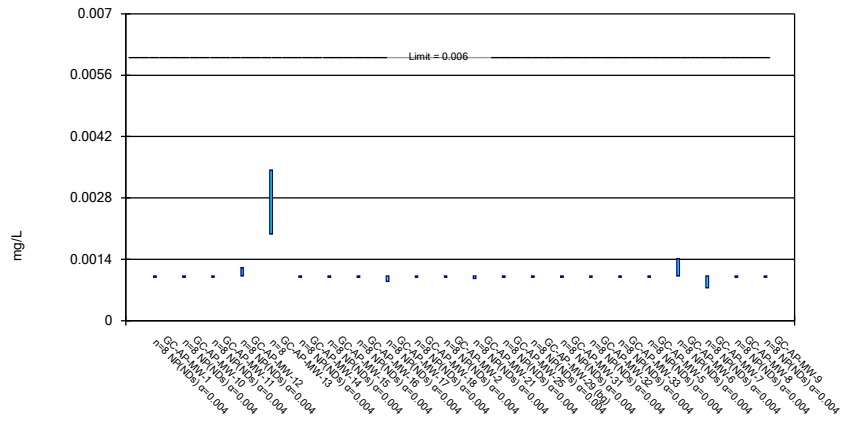
Appendix IV Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GC-AP-MW-25	0.0002	0.0000884	0.015	No	8	0.000186	0.00003946	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.0002	0.000121	0.015	No	8	0.0001839	0.00003085	75	None	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-9	0.0002	0.0000784	0.015	No	8	0.0001848	0.00004299	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.01	0.01	0.04	No	8	0.01	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-10	0.198	0.104	0.04	Yes	8	0.1301	0.03153	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1323	0.08237	0.04	Yes	8	0.1073	0.02355	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1366	0.05552	0.04	Yes	8	0.09605	0.03824	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4092	0.1002	0.04	Yes	8	0.2547	0.1457	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	1.038	0.6368	0.04	Yes	8	0.8374	0.1892	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6303	0.5344	0.04	Yes	8	0.5824	0.04524	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6582	0.5236	0.04	Yes	8	0.5909	0.06351	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.864	0.531	0.04	Yes	8	0.6138	0.1052	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-18	0.3933	0.3364	0.04	Yes	8	0.3649	0.02684	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1145	0.05042	0.04	Yes	8	0.08245	0.03022	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1376	0.1023	0.04	Yes	8	0.12	0.01663	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.03449	0.01025	0.04	No	8	0.02198	0.01322	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.07113	0.01935	0.04	No	8	0.04524	0.02443	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.09925	0.03198	0.04	No	8	0.06561	0.03173	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-1	0.0002	0.000117	0.1	No	8	0.0001896	0.00002934	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.0132	0.00747	0.1	No	8	0.008675	0.00206	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-11	0.01729	0.00816	0.1	No	8	0.01272	0.004306	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.1167	0.06199	0.1	No	8	0.08933	0.02579	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.08922	0.01462	0.1	No	8	0.05025	0.0453	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01771	0.01074	0.1	No	8	0.01423	0.003291	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.0002	0.000113	0.1	No	8	0.0001816	0.00003478	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-17	0.06902	0.04148	0.1	No	8	0.05525	0.01299	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.0004	0.0002	0.1	No	8	0.0002452	0.0000844	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-2	0.0002	0.0000804	0.1	No	8	0.0001813	0.0000421	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-21	0.0667	0.02842	0.1	No	8	0.04644	0.02323	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-25	0.0002	0.0000843	0.1	No	8	0.0001855	0.00004091	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-29 (bg)	0.0002	0.0002	0.1	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.0002	0.0000741	0.1	No	8	0.0001843	0.00004451	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.003378	0.002717	0.1	No	8	0.003048	0.0003113	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.0024	0.0002	0.1	No	8	0.0007137	0.0009544	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-7	0.0002	0.00013	0.1	No	8	0.0001857	0.00002729	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-8	0.0002	0.0000812	0.1	No	8	0.0001851	0.000042	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.00209	0.001015	0.05	No	8	0.001226	0.00041	75	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-12	0.00281	0.001015	0.05	No	8	0.001239	0.0006346	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.01732	0.001004	0.05	No	8	0.009164	0.00823	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GC-AP-MW-2	0.001015	0.00054	0.05	No	8	0.0009556	0.0001679	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-32	0.001015	0.00059	0.05	No	8	0.0009619	0.0001503	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.0002	0.000107	0.002	No	8	0.0001784	0.00004019	75	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-11	0.0002	0.000087	0.002	No	8	0.0001721	0.00005162	75	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-13	0.001512	0.0001217	0.002	No	8	0.000817	0.0006559	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.0002	0.0000878	0.002	No	8	0.000186	0.00003967	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.0003958	0.0003107	0.002	No	8	0.0003533	0.00004017	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-17	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.0002	0.000101	0.002	No	8	0.0001789	0.00003988	75	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-21	0.0002	0.000106	0.002	No	8	0.0001882	0.00003323	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-7	0.0002	0.0002	0.002	No	8	0.0002	0	100	None	No	0.004	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

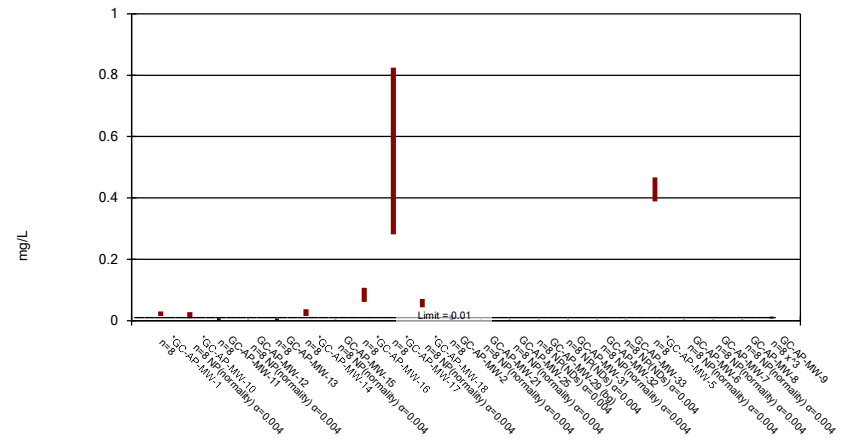
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 11/18/2021 6:46 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

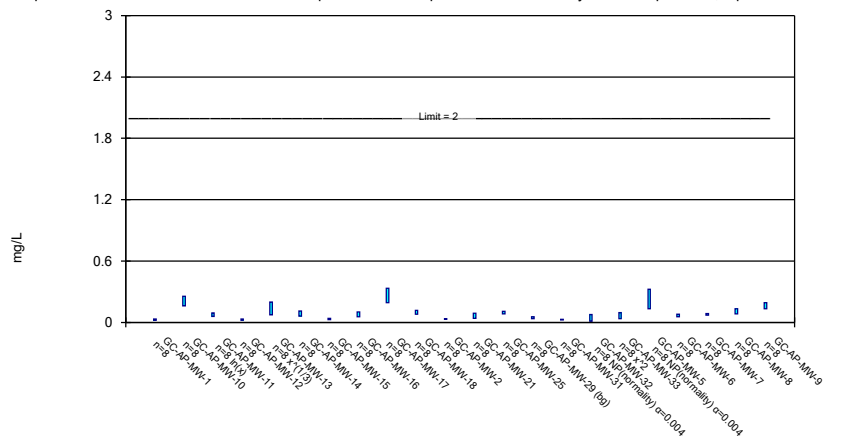
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/18/2021 6:46 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

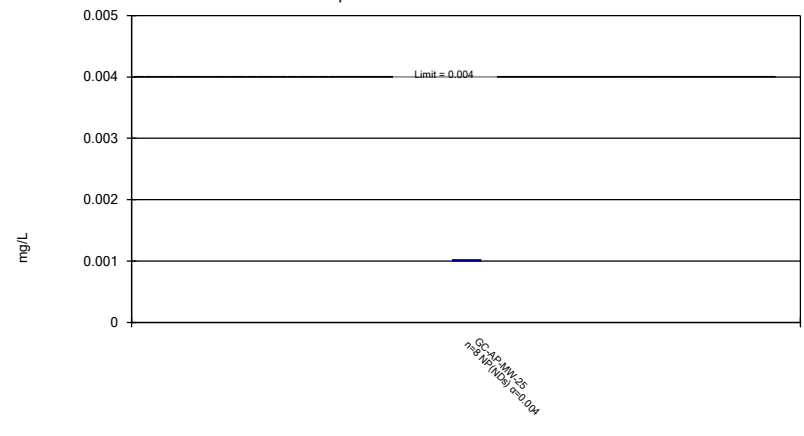
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/18/2021 6:46 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

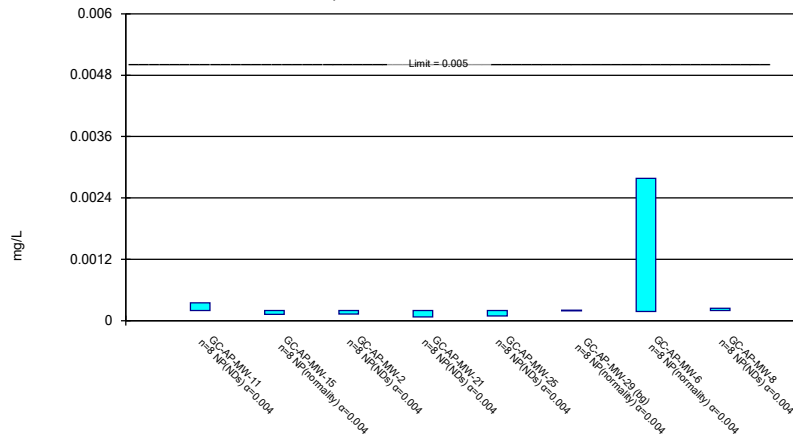
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 11/18/2021 6:46 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

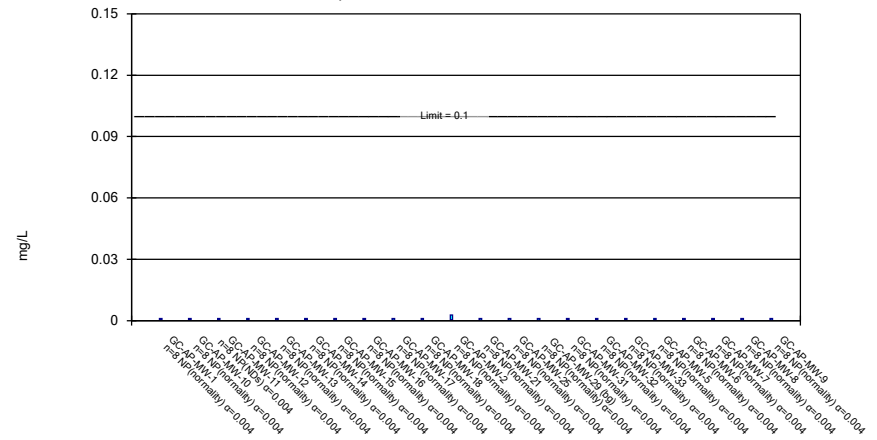
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

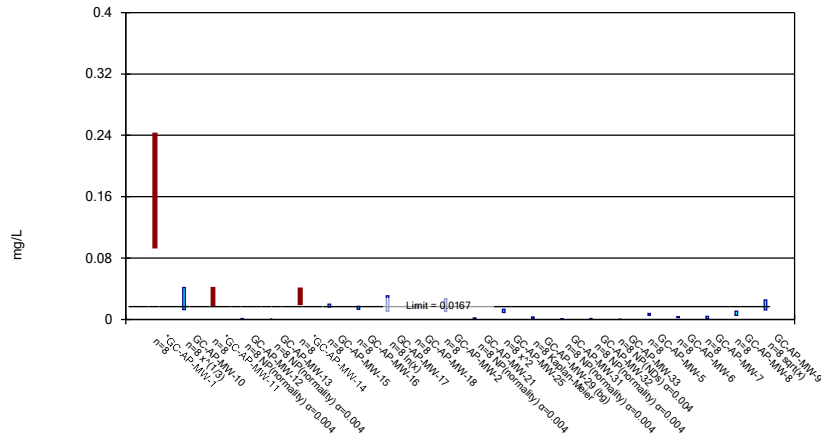
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

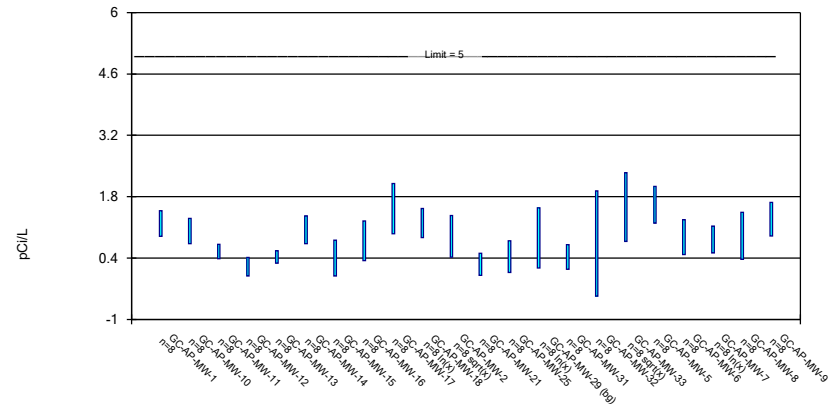
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

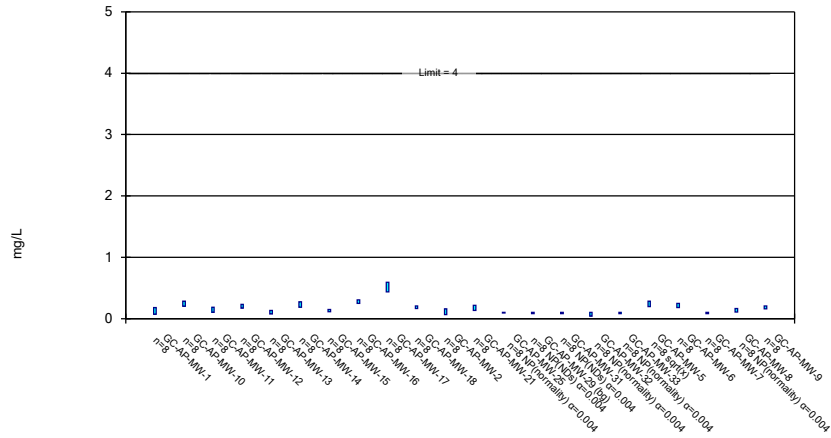
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Constituent: Combined Radium 226 + 228 Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

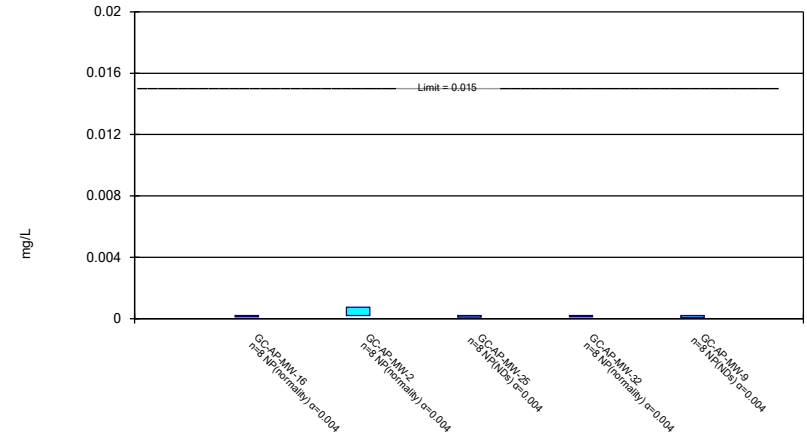
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Constituent: Fluoride Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

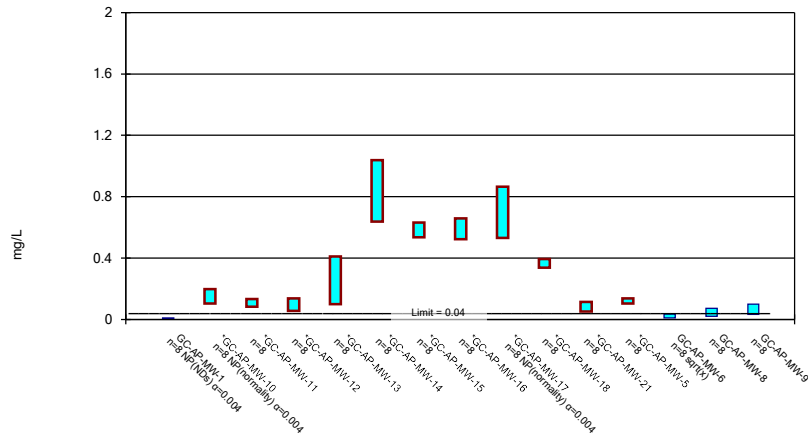
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

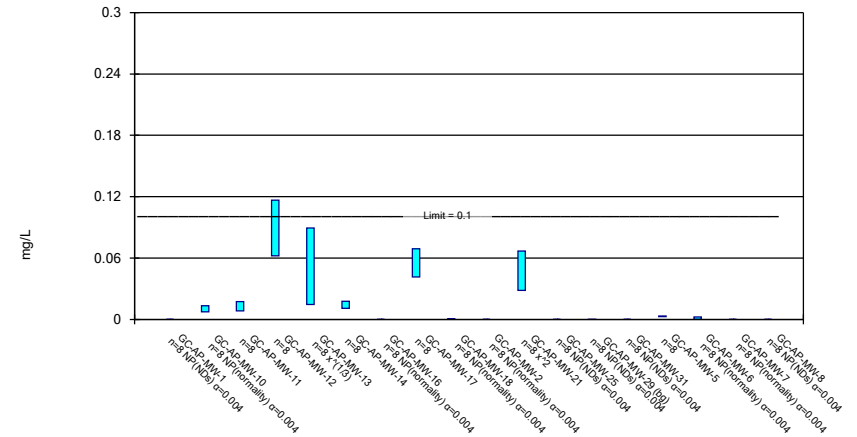
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Constituent: Lithium Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

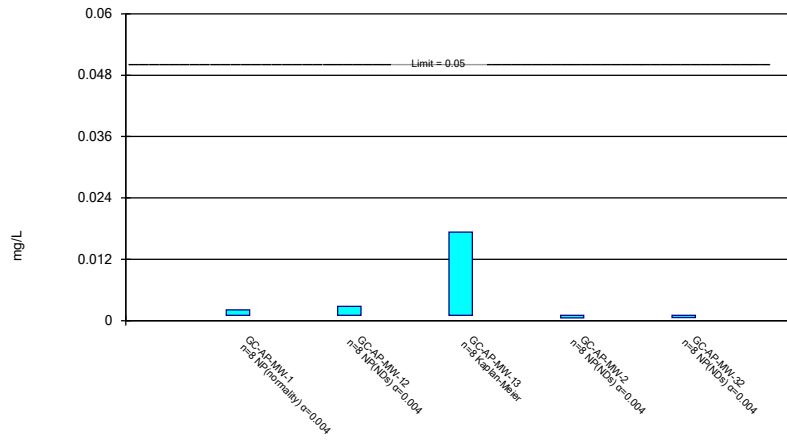
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Constituent: Molybdenum Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

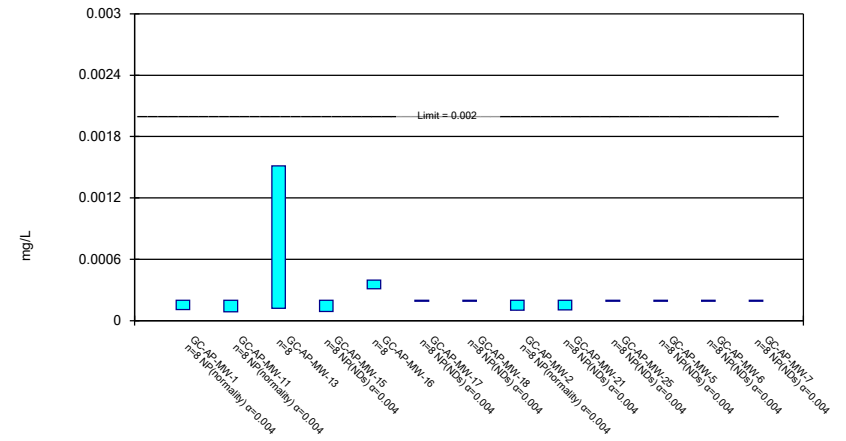
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/18/2021 6:47 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP

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 11/18/2021 6:47 PM View: Confidence Intervals
 Plant Greene County Client: Southern Company Data: Greene County AP